

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 1 0 0
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 1 1 7
- WEATHER: Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Floody
- COLOUR & INTENSITY: Clear Turbid Green Brown √1=Light 2=Moderate 3=Highly
- ODOUR: None Fishy H₂S Other
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High
- HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

STATION : River Mahanadi at Kharod
 TYPE : RIVER
 COMPLETED BY : R.K. Ahirwar (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

√ U/S of Town or Industrial Area	D/S of Town or Industrial area	Pilgrim Center / Bathing Ghat	Abstraction For Water Supply
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LOCATION DETAIL

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	ARBITRARY CODE							AQC FLAGE	VALUE
				9	7	1	6	7	N			
TEMPERATURE, °c	0 2	0 0	1 N 2 4	0	2	1	0	1	6	7	N	
PH	1 0	3 0	2 N 8 5	0	2	1	0	1	0	1	N	2
CONDUCTIVITY, μmhos/cm	0 2	0 4	1 N 1 6 0	0	2	1	0	1	0	1	N	2
ALKALINITY, mg/L	1 0	1 0	1 N	0	2	2	0	1	0	1	N	
(1) ELECTROMETRIC	1 0	1 0	2 N 1 1 0	0	2	2	0	2	0	2	N	
(2) VISUAL TITRATION	0 7	1 0	5 N 1 4	0	2	2	0	2	0	2	N	
NITROGEN(NO3 + NO2), mg/L	0 8	1 0	1 N 7 6	0	2	2	0	2	0	2	N	
DISSOLVED OXYGEN, mg/L	0 8	2 0	1 N 1 4	0	2	2	0	2	0	2	N	
BOD, mg/L	0 8	3 0	1 N 1 4	0	2	2	0	2	0	2	N	
COD, mg/L	0 8	3 0	1 N 1 4	0	2	2	0	2	0	2	N	
CHLORIDE, mg/L	1 7	2 0	1 N 2 2	0	2	2	0	2	0	2	N	
(1) ARGENTOMETRIC	1 7	2 0	1 N 2 2	0	2	2	0	2	0	2	N	
(2) MERCURIMETRIC	1 7	2 0	1 N	0	2	2	0	2	0	2	N	
SULPHATE, mg/L	1 6	3 0	1 N	0	2	2	0	2	0	2	N	
(1) GRAVIMETRIC	1 6	3 0	1 N	0	2	2	0	2	0	2	N	
(2) TURBIDIMETRIC	1 1	1 0	3 N	0	2	2	0	2	0	2	N	
SODIUM, mg/L	2 0	1 0	1 N 1 0 4	0	2	2	0	2	0	2	N	
CALCIUM as CaCO3, mg/L	1 2	1 0	3 N 2 9 2	0	2	2	0	2	0	2	N	
MAGNESIUM as CaCO3, mg/L	1 2	1 0	3 N 2 9 2	0	2	2	0	2	0	2	N	
FECAL COLIFORM MPN/100mg/L	3 6	0 1	1 N	0	2	2	0	2	0	2	N	

A. Yadav
SCIENTIST

CH. CHEMIST
CHEMIST

CH. CHEMIST
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 1 1 0 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 1 1 7

3. WEATHER: Cloudy Clear Windy Raining 1 1 0 0

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Hasdeo at Champa
 TYPE : 'RIVER'
 COMPLETED BY : R.K. Ahirwar (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

WHO CODE AQC FLAG VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 3	0
pH	1 0 3 0	2 N 8	5
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 1 9 5	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 1 1 0	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 1	5
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 8	0
BOD, mg/L	0 8 2 0	1 N 1	0
COD, mg/L	0 8 3 0	1 N 2 8	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 1 6	0
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 2 3	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 9	2
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 4	8 7
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	

DETERMINAND

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7	N	
TURBIDITY, JTU/NTU	0 2 1 0 1	N 1 8	0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1	N	
(ii) FLOAT	0 2 2 0 2	N	
(iii) CHEMICAL	0 2 2 0 3	N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1	N	
(ii) NESSELERIZATION	0 7 0 0 4		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1	N 6 8	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1	N 3 0	0
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3	N 1 1 0	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4	N 8 5	0
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5	N 1	0
(ii) DISTILLATION TITRATION	0 7 5 5 1	N	
BORON DISSOLVED, mg/L	0 5 1 0 5	N	
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 2 8 2

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 1 1 7

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 cm. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

STATION : River Mahanadi Sheorinarayan

TYPE : 'RIVER'

COMPLETED BY : R.K. Ahirwar (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

U/S of Town or Industrial Area	<input checked="" type="checkbox"/> D/S of Town or Industrial area	Pilgrim Center / Bathing Ghat	Abstraction For Water Supply
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DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0 2 0 0	1 N	2 4 . 0	INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	
pH	1 0 3 0	2 N	8 . 5	TURBIDITY, JTU/NTU	0 2 1 0	1 N	1 6 . 0
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N	1 8 5 . 0	VELOCITY OF FLOW, m/sec			
ALKALINITY, mg/L				(i) CURRENT METER	0 2 2 0	1 N	
(1) ELECTROMETRIC	1 0 1 0	1 N		(ii) FLOAT	0 2 2 0	2 N	
(2) VISUAL TITRATION	1 0 1 0	2 N	1 2 4 . 0	(iii) CHEMICAL	0 2 2 0	3 N	
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N	1 . 6	TOTAL KJELDAHL NITROGEN, mg/L			
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7 . 1	(i) TITRATION	0 7 0 0	1 N	
BOD, mg/L	0 8 2 0	1 N	1 . 1	(ii) NESSELERIZATION	0 7 0 0	4	
COD, mg/L	0 8 3 0	1 N	2 6 . 0	HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N	6 0 . 0
CHLORIDE, mg/L				TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	6 0 . 0
(1) ARGENTOMETRIC	1 7 2 0	1 N	3 2 . 0	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	1 1 0 . 0
(2) MERCURIMETRIC	1 7 2 0	1 N		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	6 5 . 0
SULPHATE, mg/L				AMMONIA NITROGEN, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N		(i) COLOURIMETRY	0 7 5 5	5 N	1 . 0
(2) TURBIDIMETRIC	1 6 3 0	2 N	2 5 . 0	(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
SODIUM, mg/L	1 1 1 0	3 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	1 6 . 8	PHOSPHATE, mg/L			1 . 1
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	4 . 3 9	NITRITE, mg/L			0 . 7
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N		Fluoride, Mg/L			

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MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 4 6 7
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 1 1 7
- WEATHER: Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood
- COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High
- ODOUR: None Fishy H₂S Other
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High
- HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

<input checked="" type="checkbox"/> U/S of Town or Industrial Area	<input type="checkbox"/> D/S of Town or Industrial area	<input type="checkbox"/> Pilgrim Center / Bathing Ghat	<input type="checkbox"/> Abstraction For Water Supply
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STATION : River Mahanadi at Baipur
 TYPE : RIVER
 COMPLETED BY : R.K. Ahirwar (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINEAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 4	0
pH	1 0 3 0	2 N 8 5	
CONDUCTIVITY, μmhos/cm	0 2 0 4	1 N 1 8 5	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 1 2 6	0
NITROGEN(NO3 + NO2), mg/L	0 7 1 0	5 N 1 9	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7 4	
BOD, mg/L	0 8 2 0	1 N 1 2	
COD, mg/L	0 8 3 0	1 N 2 4	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 3 0	0
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 2 6	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO3, mg/L	2 0 1 0	1 N 1 3	6
MAGNESIUM as CaCO3, mg/L	1 2 1 0	3 N 4 8 7	
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	

DETERMINEAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	
TURBIDITY, JTU/NTU	0 2 1 0	1 N 2 0	0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0	0 1 N	
(ii) FLOAT	0 2 2 0	2 N	
(iii) CHEMICAL	0 2 2 0	3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0	0 1 N	
(ii) NESSELERIZATION	0 7 0 0	0 4	
HARDNESS as CaCO3 mg/L	2 2 1 0	1 N 5 4	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0	0 1 N 3 0	0
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 3 N 1 0 6	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 4 N 6 8	0
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5	5 N 1 2	
(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
BORON DISSOLVED, mg/L	0 5 1 0	5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 1 0 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 2 0 2 1 7

3. WEATHER: Cloudy Clear Windy Raining 1 2 3 0

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

STATION : River Mahanadi at Kharod

TYPE : RIVER

COMPLETED BY : R.K. Ahirwar (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

√ U/S of Town or Industrial Area	D/S of Town or Industrial area	Pilgrim Center / Bathing Ghat	Abstraction For Water Supply
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DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 6 . 0		
PH	1 0 3 0 2 N 8 . 5		
CONDUCTIVITY, μmhos/cm	0 2 0 4 1 N 2 1 0 . 0		
ALKALINITY, mg/L	1 0 1 0 1 N		
(1) ELECTROMETRIC			
(2) VISUAL TITRATION	1 0 1 0 2 N 1 4 2 . 0		
NITROGEN(NO3 + NO2), mg/L	0 7 1 0 5 N 2 . 0		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 . 3		
BOD, mg/L	0 8 2 0 1 N 1 . 4		
COD, mg/L	0 8 3 0 1 N 2 2 . 0		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 8 . 0		
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 2 6 . 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO3, mg/L	2 0 1 0 1 N 1 2 . 8		
MAGNESIUM as CaCO3, mg/L	1 2 1 0 3 N 5 . 3 6		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE	
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N			
TURBIDITY, JTU/NTU	0 2 1 0 1 N 1 8 . 0			
VELOCITY OF FLOW, m/sec				
(i) CURRENT METER	0 2 2 0 1 N			
(ii) FLOAT	0 2 2 0 2 N			
(iii) CHEMICAL	0 2 2 0 3 N			
TOTAL KJELDAHL NITROGEN, mg/L				
(i) TITRATION	0 7 0 0 1 N			
(ii) NESSELERIZATION	0 7 0 0 4			
HARDNESS as CaCO3 mg/L	2 2 1 0 1 N 5 4 . 0			
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 4 0 . 0			
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 0 6 . 0			
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 8 5 . 0			
AMMONIA NITROGEN, mg/L				
(i) COLOURIMETRY	0 7 5 5 5 N 1 . 2			
(ii) DISTILLATION TITRATION	0 7 5 5 1 N			
BORON DISSOLVED, mg/L	0 5 1 0 5 N			
PHOSPHATE, mg/L				
NITRITE, mg/L				1 . 3
Fluoride, Mg/L				0 . 9

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 1 0 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 2 0 2 1 7

3. WEATHER: Cloudy Clear Windy Raining 1 5 3 0

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Floody

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

STATION : River Hasdeo at Champa

TYPE : 'RIVER'

COMPLETED BY : R.K. Ahirwar (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0 2 0 0	1 N	2 5 . 0	INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	
pH	1 0 3 0	2 N	8 . 5	TURBIDITY, JTU/NTU	0 2 1 0	1 N	2 6 . 0
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N	2 3 0 . 0	VELOCITY OF FLOW, m/sec			
ALKALINITY, mg/L				(i) CURRENT METER	0 2 2 0	1 N	
(1) ELECTROMETRIC	1 0 1 0	1 N		(ii) FLOAT	0 2 2 0	2 N	
(2) VISUAL TITRATION	1 0 1 0	2 N	1 3 8 . 0	(iii) CHEMICAL	0 2 2 0	3 N	
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N	2 . 0	TOTAL KJELDAHL NITROGEN, mg/L	0 2 2 0	3 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7 . 5	(i) TITRATION	0 7 0 0	1 N	
BOD, mg/L	0 8 2 0	1 N	1 . 4	(ii) NESSELERIZATION	0 7 0 0	4	
COD, mg/L	0 8 3 0	1 N	3 2 . 0	HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N	8 4 . 0
CHLORIDE, mg/L				TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	5 0 . 0
(1) ARGENTOMETRIC	1 7 2 0	1 N	2 2 . 0	FIXED DISSOLVED SOLIDS, mg/L	3 3 3 3	1 N	1 3 2 . 0
(2) MERCURIMETRIC	1 7 2 0	1 N		AMMONIA NITROGEN, mg/L	4 4 4 4	4 N	9 6 . 0
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5	5 N	1 . 3
(1) GRAVIMETRIC	1 6 3 0	1 N		(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N	3 0 . 0	BORON DISSOLVED, mg/L	0 5 1 0	5 N	
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L	0 5 1 0	5 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	2 0 . 8	NITRITE, mg/L			1 . 4
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	7 . 8 0	Fluoride, Mg/L			0 . 8
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1 4 6 7

1. STATION CODE : 2 2 0 2 1 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) : 1 4 2 0

3. WEATHER : Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM : <50cm. 50 - 100 m. >100 cm. Floodv

5. COLOUR & INTENSITY : Clear turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR : None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY : none moderate High

8. HUMAN ACTIVITIES AROUND STATION : Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL : U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Mahanadi at Balpur

TYPE : RIVER

COMPLETED BY : R.K. Ahirwar (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N 2 7	0	INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
pH	1 0 3 0	2 N 8 . 5		TURBIDITY, JTU/NTU	0 2 1 0 1 N 2 7	0	0
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 4 1	0	VELOCITY OF FLOW, m/sec			
ALKALINITY, mg/L				(i) CURRENT METER	0 2 2 0 1 N		
(1) ELECTROMETRIC	1 0 1 0	1 N		(ii) FLOAT	0 2 2 0 2 N		
(2) VISUAL TITRATION	1 0 1 0	2 N 1 3 8	0	(iii) CHEMICAL	0 2 2 0 3 N		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 2 . 0		TOTAL KJELDAHL NITROGEN, mg/L			
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7 . 0		(i) TITRATION	0 7 0 0 1 N		
BOD, mg/L	0 8 2 0	1 N 1 . 5		(ii) NESSELERIZATION	0 7 0 0 4		
COD, mg/L	0 8 3 0	1 N 3 2 . 0		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 8 4	0	0
CHLORIDE, mg/L				TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 6 0	0	0
(1) ARGENTOMETRIC	1 7 2 0	1 N 4 2 . 0		TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 1 2 2	0	0
(2) MERCURIMETRIC	1 7 2 0	1 N		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 9 6	0	0
SULPHATE, mg/L				AMMONIA NITROGEN, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N		(i) COLOURIMETRY	0 7 5 5 N 1	3	
(2) TURBIDIMETRIC	1 6 3 0	2 N 3 8 . 0		(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
SODIUM, mg/L	1 1 1 0	3 N		BORON DISSOLVED, mg/L	0 5 1 0 5 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 8 . 4		PHOSPHATE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 9 . 2 6		NITRITE, mg/L			
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N		Fluoride, Mg/L			

CHEMIST



 SCIENTIST



 CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 1 0 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

0 3 0 4 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

√ <50cm. 50 - 100 m. >100 cm. Floody

5. COLOUR & INTENSITY

√ Clear Turbid Green Brown √ 1 = Light 2 = Moderate 3 = High

6. ODOUR

√ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√ none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL

√ U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Mahanadi at Kharod

TYPE : RIVER

COMPLETED BY : R. R. Vaishnav (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

WHO CODE AQC FLAGE VALUE

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2	0 0 1 N	3 5 0
PH	1 0	3 0 2 N	8 5
CONDUCTIVITY, µmhos/cm	0 2	0 4 1 N	1 4 8 0
ALKALINITY, mg/L	1 0	1 0 1 N	
(1) ELECTROMETRIC	1 0	1 0 2 N	1 2 0
(2) VISUAL TITRATION	0 7	1 0 5 N	1 9
NITROGEN(NO3 + NO2), mg/L	0 8	1 0 1 N	7 0
DISSOLVED OXYGEN, mg/L	0 8	2 0 1 N	1 0
BOD, mg/L	0 8	3 0 1 N	1 6 0
COD, mg/L	1 7	2 0 1 N	2 0 0
CHLORIDE, mg/L	1 7	2 0 1 N	
(1) ARGENTOMETRIC	1 6	3 0 1 N	
(2) MERCURIMETRIC	1 6	3 0 2 N	1 8 0
SULPHATE, mg/L	1 1	1 0 3 N	
(1) GRAVIMETRIC	2 0	1 0 1 N	8 0
(2) TURBIDIMETRIC	1 2	1 0 3 N	4 3 9
SODIUM, mg/L	3 6	0 1 1 N	
CALCIUM as CaCO ₃ , mg/L			
MAGNESIUM as CaCO ₃ , mg/L			
FECAL COLIFORM MPN/100mg/L			

DETERMINAND

ARBITRARY CODE

AQC FLAGE

VALUE

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9	7 1 6 7 N	
TURBIDITY, JTU/NTU	0	2 1 0 1 N	1 0 0
VELOCITY OF FLOW, m/sec	0	2 2 0 1 N	
(i) CURRENT METER	0	2 2 0 1 N	
(ii) FLOAT	0	2 2 0 2 N	
(iii) CHEMICAL	0	2 2 0 3 N	
TOTAL KIELDAHL NITROGEN, mg/L	0	7 0 0 1 N	
(i) TITRATION	0	7 0 0 1 N	
(ii) NITROGENIZATION	0	7 0 0 4	
HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N	3 8 0
TOTAL COLIFORM, MPN/100ml	3	7 0 0 1 N	2 2 0
TOTAL DISSOLVED SOLIDS, mg/L	3	3 3 3 3 N	8 2 0
FIXED DISSOLVED SOLIDS, mg/L	4	4 4 4 4 N	6 6 0
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0	7 5 5 5 N	1 1
(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
BORON DISSOLVED, mg/L	0	5 1 0 5 N	
PHOSPHATE, mg/L			1 0
NITRITE, mg/L			0 9
Fluoride, Mg/L			

Raja
CHEMIST

Radhu
SCIENTIST

nl
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: **1 1 0 6**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **0 3 0 4 1 7**

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Hasdeo at Champa
 TYPE : 'RIVER'
 COMPLETED BY : R. R. Vaishnav (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

WHO CODE AQC FLAG VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 3 5	0
pH	1 0 3 0	2 N 8 5	
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 1 8	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 1 2 6	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 2 2	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7 1	
BOD, mg/L	0 8 2 0	1 N 1 4	
COD, mg/L	0 8 3 0	1 N 2 8	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 2 9	0
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 3 2	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 2 0	0
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 6 8 2	
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	

DETERMINAND DETERMINAND ARBITRARY CODE AQC FLAG VALUE

DETERMINAND	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s		9 7 1 6 7 N		
TURBIDITY, JTU/NTU		0 2 1 0 1 N	2 8	0
VELOCITY OF FLOW, m/sec				
(i) CURRENT METER		0 2 2 0 1 N		
(ii) FLOAT		0 2 2 0 2 N		
(iii) CHEMICAL		0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L				
(i) TITRATION		0 7 0 0 1 N		
(i) NESSELERIZATION		0 7 0 0 4		
HARDNESS as CaCO ₃ mg/L		2 2 1 0 1 N	7 8	0
TOTAL COLIFORM, MPN/100ml		3 7 0 0 1 N	4 0	0
TOTAL DISSOLVED SOLIDS, mg/L		3 3 3 3 3 N	1 0 9	0
FIXED DISSOLVED SOLIDS, mg/L		4 4 4 4 4 N	8 0	0
AMMONIA NITROGEN, mg/L				
(i) COLOURIMETRY		0 7 5 5 5 N	1 3	
(ii) DISTILLATION TITRATION		0 7 5 5 1 N		
BORON DISSOLVED, mg/L		0 5 1 0 5 N		
PHOSPHATE, mg/L				
NITRITE, mg/L				
Fluoride, Mg/L				

R. R. Vaishnav
CHEMIST

Dr. Anita Yadav
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 4 6 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

0 3 0 4 1 7

1 8 2 0

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50 - 100 m. >100 cm. Floody

5. COLOUR & INTENSITY

Clear Turbid Green Brown √1=Light 2=Moderate 3=High

6. ODOUR

√None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing √ Other

9. LOCATION DETAIL

√ U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Mahanadi at Balpur

TYPE : RIVER

COMPLETED BY : R. R. Vaishnav (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 3 6	0	0
pH	1 0 3 0 2 N 8	5	0
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 2 4 0	0	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 2 6	0	0
NITROGEN(NO3 + NO2), mg/L	0 7 1 0 5 N 2	2	7
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6	7	5
BOD, mg/L	0 8 2 0 1 N 1	8	0
COD, mg/L	0 8 3 0 1 N 2 8	0	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 6	0	0
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 4 0	0	0
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO3, mg/L	2 0 1 0 1 N 2 0	0	3
MAGNESIUM as CaCO3, mg/L	1 2 1 0 3 N 7	3	1
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9	7 1 6 7 N	
TURBIDITY, JTU/NTU	0	2 1 0 1 N 3 4	0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0	2 2 0 1 N	
(ii) FLOAT	0	2 2 0 2 N	
(iii) CHEMICAL	0	2 2 0 3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0	7 0 0 1 N	
(ii) NESSELERIZATION	0	7 0 0 4	
HARDNESS as CaCO3 mg/L	2	2 1 0 1 N 8 0	0
TOTAL COLIFORM, MPN/100ml	3	7 0 0 1 N 5 0	0
TOTAL DISSOLVED SOLIDS, mg/L	3	3 3 3 3 N 1 2 4	0
FIXED DISSOLVED SOLIDS, mg/L	4	4 4 4 4 N 8 6	0
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0	7 5 5 5 N 1	3
(ii) DISTILLATION TITRATION	0	7 5 5 5 N	
BORON DISSOLVED, mg/L	0	5 1 0 5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			1
Fluoride, Mg/L			1

Rajee
CHEMIST

Anita Yadav
SCIENTIST

AC
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

N E W

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 4 0 4 1 7

1 1 3 0

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY

<Clear Turbid Green Brown >1=Light 2=Moderate 3=High

6. ODOUR

<None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL

U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Sheonath at Dagaori,

TYPE : 'River'

COMPLETED BY : R. R. Vaishnav (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

WHO CODE

ARBITRARY CODE

VALUE

DETERMINAND

AQC FLAGE

VALUE

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 3 4 0		
pH	1 0 3 0 2 N 8 5		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 2 0 8 0		
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 4 2 0		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 1 6		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 8		
BOD, mg/L	0 8 2 0 1 N 1 6		
COD, mg/L	0 8 3 0 1 N 2 8 0		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 5 0		
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 2 8 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 1 6		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 7 3 1		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		

DETERMINAND	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N	
TURBIDITY, JTU/NTU	0 2 1 0 1 N 3 4 0	
VELOCITY OF FLOW, m/sec		
(i) CURRENT METER	0 2 2 0 1 N	
(ii) FLOAT	0 2 2 0 2 N	
(iii) CHEMICAL	0 2 2 0 3 N	
TOTAL KJELDAHL NITROGEN, mg/L		
(i) TITRATION	0 7 0 0 1 N	
(ii) NESSELERIZATION	0 7 0 0 4	
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 8 4 0	
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 5 0 0	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 0 5 0	
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 7 2 0	
AMMONIA NITROGEN, mg/L		
(i) COLOURIMETRY	0 7 5 5 5 N 1 5	
(ii) DISTILLATION TITRATION	0 7 5 5 1 N	
BORON DISSOLVED, mg/L	0 5 1 0 5 N	
PHOSPHATE, mg/L		
NITRITE, mg/L		
Fluoride, Mg/L		

R. R. Vaishnav
CHEMIST

R. R. Vaishnav
CH. SCIENTIST

SCIENTIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT / GLOWDAT

1. STATION CODE: 1 6 2 2

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 4 0 4 1 7

3. WEATHER: Cloudy Clear Windy Raining 1 6 0 0

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown $\sqrt{1}$ =Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Bore well water sample near Tifra
I.A., Bilaspur
Bore well

TYPE : Bore well

COMPLETED BY : R. R. Vaishnav (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0 2 0 0 1 N 3 0	0	0
pH	1 0 3 0 2 N 7 5	0	5
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 3 6 0	0	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 2 4	0	0
NITROGEN(NO3 + NO2), mg/L	0 7 1 0 5 N 0 4		4
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 0 5		5
BOD, mg/L	0 8 2 0 1 N 0 1		1
COD, mg/L	0 8 3 0 1 N 4 0		0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 1 2 0		0
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 8 0		0
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO3, mg/L	2 0 1 0 1 N 3 4	4	4
MAGNESIUM as CaCO3, mg/L	1 2 1 0 3 N 1 1 2 1		1
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
TURBIDITY, JTU/NTU	0 2 1 0 1 N 3 0		0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) NITROGEN	0 7 0 0 4		
HARDNESS as CaCO3 mg/L	2 2 1 0 1 N 1 3 2 0		0
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N < 2		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 2 2 5 0		0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 2 0 8 0		0
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 0 2		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			0 3
Fluoride, Mg/L			0 1

[Signature]
CHEMIST

[Signature]
SCIENTIST

CH. SCIENTIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES MINARS/GEMS

MINDAT // GLOWDAT

1. STATION CODE: 1 6 2 3
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 4 0 4 1 7
3. WEATHER: Cloudy Clear Windy Raining
4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood
5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High
6. ODOUR: None Fishy H₂S Other
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High
8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other
9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Bore well water sample from BEC Fertilizer outside of the factory, Bilaspur

TYPE : Bore well

COMPLETED BY : R. R. Vaishnav (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 3 0	0	INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	
pH	1 0 3 0	2 N 7 5		TURBIDITY, JTU/NTU	0 2 1 0	1 N 6	0
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 4 3	2	VELOCITY OF FLOW, m/sec			
ALKALINITY, mg/L				(i) CURRENT METER	0 2 2 0	1 N	
(1) ELECTROMETRIC	1 0 1 0	1 N		(ii) FLOAT	0 2 2 0	2 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 1 2	0	(iii) CHEMICAL	0 2 2 0	3 N	
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 0 4		TOTAL KJELDAHL NITROGEN, mg/L			
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 0 5		(i) TITRATION	0 7 0 0	1 N	
BOD, mg/L	0 8 2 0	1 N 0 1		(ii) NITROGEN	0 7 0 0	4	
COD, mg/L	0 8 3 0	1 N 1 4		(iii) PHOSPHATE	2 2 1 0	1 N 1 7	0
CHLORIDE, mg/L	1 7 2 0	1 N 7 0		HARDNESS as CaCO ₃ mg/L	3 7 0 0	1 N <	2
(1) ARGENTOMETRIC	1 7 2 0	1 N		TOTAL COLIFORM, MPN/100ml	3 3 3 3	3 N 2 9	7
(2) MERCURIMETRIC				TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N 2 1	2
SULPHATE, mg/L	1 6 3 0	1 N		FIXED DISSOLVED SOLIDS, mg/L			
(1) GRAVIMETRIC	1 6 3 0	2 N 3 6	0	AMMONIA NITROGEN, mg/L	0 7 5 5	5 N 0	3
(2) TURBIDIMETRIC	1 1 1 0	3 N		(i) COLOURIMETRY	0 7 5 5	1 N	
SODIUM, mg/L	2 0 1 0	1 N 4 8	8	(ii) DISTILLATION TITRATION	0 5 1 0	5 N	
CALCIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 1 1	7	BORON DISSOLVED, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	3 6 0 1	1 N		PHOSPHATE, mg/L			
FECAL COLIFORM MPN/100mg/L				NITRITE, mg/L			
				Fluoride, Mg/L			


 CHEMIST
 CH. SCIENTIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 4 8
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 2 0 4 1 7
3. WEATHER: Cloudy Clear Windy Raining 1 6 0 0
4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood
5. COLOUR & INTENSITY: Clear Turbid Green Brown √1=Light 2=Moderate 3=High
6. ODOUR: None Fishy H₂S √Other
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High
8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √ Other
9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply
- STATION : Arpa River D/S of Bilaspur city
 TYPE : check Dam outlet Devrikhurd 'RIVER'
 COMPLETED BY : R. R. Vaishnav (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 3 4	0	INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
pH	1 0 3 0	2 N 8 5		TURBIDITY, JTU/NTU	0 2 1 0 1 N 4 2	0	0
CONDUCTIVITY, μmhos/cm	0 2 0 4	1 N 2 5 6	0	VELOCITY OF FLOW, m/sec			
ALKALINITY, mg/L				(i) CURRENT METER	0 2 2 0 1 N		
(1) ELECTROMETRIC	1 0 1 0	1 N		(ii) FLOAT	0 2 2 0 2 N		
(2) VISUAL TITRATION	1 0 1 0	2 N 1 4 0	0	(iii) CHEMICAL	0 2 2 0 3 N		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 1 5		TOTAL KjELDAHL NITROGEN, mg/L			
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 6 7		(i) TITRATION	0 7 0 0 1 N		
BOD, mg/L	0 8 2 0	1 N 1 6		(i) NESSELERIZATION	0 7 0 0 4		
COD, mg/L	0 8 3 0	1 N 3 0	0	HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 8 4	0	0
CHLORIDE, mg/L				TOTAL COLIFORM, MPN/100ml	3 3 3 3 3 N 1 6	0	0
(1) ARGENTOMETRIC	1 7 2 0	1 N 4 5	0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 8 0	0	0
(2) MERCURIMETRIC	1 7 2 0	1 N		AMMONIA NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5 5 N 1 3		
(1) GRAVIMETRIC	1 6 3 0	1 N		(i) DISTILLATION TITRATION	0 7 5 5 1 N		
(2) TURBIDIMETRIC	1 6 3 0	2 N 4 0	0	BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 2 3	2	NITRITE, mg/L			1 4
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 6	3 4	Fluoride, Mg/L			0 2
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N					

Route
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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 2 8 2

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 0 3 0 4 1 7 1 1 3 0

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Floody

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION: Mahanadi River at Sheorinarayan, District- Jantgir-Champa (C.G.)

TYPE: RIVER

COMPLETED BY: R. R. Vaishnav (Chemist)

VERIFIED BY: Dr. Anita Yadav (Scientist)

AGENCY: R. O. C. E. C. B. Bilaspur

WHO CODE	AQC FLAGE	VALUE
0	2	0
1	0	3
0	2	0
1	0	1
0	7	1
0	8	1
0	8	2
1	7	2
1	6	3
1	6	3
2	0	1
1	2	1
3	6	0

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0	2	0
pH	1	0	3
CONDUCTIVITY, µmhos/cm	0	2	0
ALKALINITY, mg/L	1	0	1
(1) ELECTROMETRIC	1	0	1
(2) VISUAL TITRATION	1	0	1
NITROGEN(NO3 + NO2), mg/L	0	7	1
DISSOLVED OXYGEN, mg/L	0	8	1
BOD, mg/L	0	8	2
COD, mg/L	0	8	3
CHLORIDE, mg/L	1	7	2
(1) ARGENTOMETRIC	1	7	2
(2) MERCURIMETRIC	1	7	2
SULPHATE, mg/L	1	6	3
(1) GRAVIMETRIC	1	6	3
(2) TURBIDIMETRIC	1	1	1
SODIUM, mg/L	1	1	1
CALCIUM as CaCO3, mg/L	2	0	1
MAGNESIUM as CaCO3, mg/L	1	2	1
FECAL COLIFORM MPN/100mg/L	3	6	0

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1
TURBIDITY, JTU/NTU	0	2	1
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0	2	2
(ii) FLOAT	0	2	2
(iii) CHEMICAL	0	2	2
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0	7	0
(ii) NESSELERIZATION	0	7	0
HARDNESS as CaCO3 mg/L	2	2	1
TOTAL COLIFORM, MPN/100ml	3	7	0
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3
FIXED DISSOLVED SOLIDS, mg/L	4	4	4
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0	7	5
(ii) DISTILLATION TITRATION	0	7	5
BORON DISSOLVED, mg/L	0	5	1
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 1 0 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 3 0 5 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50cm. 50 - 100 m. > 100 cm. Flood

5. COLOUR & INTENSITY

< Clear Turbid Green Brown < 1 = Light 2 = Moderate 3 = High

6. ODOUR

< None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

< none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL

< U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Mahanadi at Kharod

TYPE : RIVER

COMPLETED BY : R. K. Ahirwar (Chemist)

VERIFIED BY : P. K. Pandey (Asst. Engineer)

AGENCY : R. O. C. E. C. B. Bilaspur

WHO CODE AQC FLAG VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °C	0 2	0 0	1 3 7 0
PH	1 0	3 0	2 N 8 0
CONDUCTIVITY, µmhos/cm	0 2	0 4	1 N 1 5 2 0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0	1 0	1 N
(2) VISUAL TITRATION	1 0	1 0	2 N 1 1 4 0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7	1 0	5 N 1 7
DISSOLVED OXYGEN, mg/L	0 8	1 0	1 N 6 9
BOD, mg/L	0 8	2 0	1 N 1 1
COD, mg/L	0 8	3 0	1 N 2 0 0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7	2 0	1 N 2 2 0
(2) MERCURIMETRIC	1 7	2 0	1 N
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6	3 0	1 N
(2) TURBIDIMETRIC	1 6	3 0	2 N 2 0 0
SODIUM, mg/L	1 1	1 0	3 N
CALCIUM as CaCO ₃ , mg/L	2 0	1 0	1 N 8 8
MAGNESIUM as CaCO ₃ , mg/L	1 2	1 0	3 N 4 3 9
FECAL COLIFORM MPN/100mg/L	3 6	0 1	1 N

ARBITRARY CODE

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9	7 1 6 7 N	
TURBIDITY, JTU/NTU	0	2 1 0 1 N 1 2 0	
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0	2 2 0 1 N	
(ii) FLOAT	0	2 2 0 2 N	
(iii) CHEMICAL	0	2 2 0 3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0	7 0 0 1 N	
(ii) Nesslerization	0	7 0 0 4	
HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 4 0 0	
TOTAL COLIFORM, MPN/100ml	3	7 0 0 1 N 2 6 0	
TOTAL DISSOLVED SOLIDS, mg/L	3	3 3 3 3 N 8 4 0	
FIXED DISSOLVED SOLIDS, mg/L	4	4 4 4 4 N 6 6 0	
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0	7 5 5 5 N 1 2	
(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
BORON DISSOLVED, mg/L			
PHOSPHATE, mg/L	0	5 1 0 5 N	
NITRITE, mg/L			
Fluoride, Mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 1 0 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 3 0 5 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

\sqrt <50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY

Clear Turbid Green Brown \sqrt 1=Light 2=Moderate 3=High

6. ODOUR

\sqrt None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

\sqrt none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing \sqrt Other

9. LOCATION DETAIL

\sqrt U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Hasdeo at Champa
TYPE : 'RIVER'
COMPLETED BY : R. K. Ahirwar (Chemist)
VERIFIED BY : P.K. Pandey (Asst. Engineer)
AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND WHO CODE AQC FLAG VALUE

TEMPERATURE, °c	0	2	0	0	1	N	3	7	0			
pH	1	0	3	0	2	N	8	0				
CONDUCTIVITY, µmhos/cm	0	2	0	4	1	N	2	2	0	0		
ALKALINITY, mg/L	1	0	1	0	1	N						
(1) ELECTROMETRIC												
(2) VISUAL TITRATION	1	0	1	0	2	N	1	2	8	0		
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	0	5	N	2	0				
DISSOLVED OXYGEN, mg/L	0	8	1	0	1	N	6	8				
BOD, mg/L	0	8	2	0	1	N	1	0				
COD, mg/L	0	8	3	0	1	N	2	4	0			
CHLORIDE, mg/L												
(1) ARGENTOMETRIC	1	7	2	0	1	N	2	8	0			
(2) MERCURIMETRIC	1	7	2	0	1	N						
SULPHATE, mg/L												
(1) GRAVIMETRIC	1	6	3	0	1	N						
(2) TURBIDIMETRIC	1	6	3	0	2	N	3	4	0			
SODIUM, mg/L	1	1	1	0	3	N						
CALCIUM as CaCO ₃ , mg/L	2	0	1	0	1	N	2	0	0			
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	0	3	N	7	8				
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1	N						

DETERMINAND ARBITRARY CODE AQC FLAG VALUE

INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	6	7	N						
TURBIDITY, JTU/NTU	0	2	1	0	1	N	3	0	0			
VELOCITY OF FLOW, m/sec												
(i) CURRENT METER	0	2	2	0	1	N						
(ii) FLOAT	0	2	2	0	2	N						
(iii) CHEMICAL	0	2	2	0	3	N						
TOTAL KJELDAHL NITROGEN, mg/L												
(i) TITRATION	0	7	0	0	1	N						
(ii) Nesslerization	0	7	0	0	4							
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	8	2	0			
TOTAL COLIFORM, MPN/100ml	3	7	0	0	1	N	3	3	0			
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3	3	3	N	1	0	8	0		
FIXED DISSOLVED SOLIDS, mg/L	4	4	4	4	4	N	8	4	0			
AMMONIA NITROGEN, mg/L												
(i) COLOURIMETRY	0	7	5	5	5	N	1	2				
(ii) DISTILLATION TITRATION	0	7	5	5	1	N						
BORON DISSOLVED, mg/L	0	5	1	0	5	N						
PHOSPHATE, mg/L												
NITRITE, mg/L												
Fluoride, Mg/L												

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 4 6 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 3 0 5 1 7

1 4 3 0

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50 - 100 m. >100 cm. Floody

5. COLOUR & INTENSITY

Clear Turbid Green Brown √1=Light 2=Moderate 3=High

6. ODOUR

√None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing √Other

9. LOCATION DETAIL

√ U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Mahanadi at Balpur

TYPE : RIVER

COMPLETED BY : R. K. Ahirwar (Chemist)

VERIFIED BY : P. K. Pandey (Asst. Engineer)

AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAGE				VALUE				DETERMINDAND	ARBITRARY CODE	AQC FLAGE				VALUE			
		0	2	0	1	1	3	8	0			0	7	1	6		7	N	
TEMPERATURE, °C	1 0	3	0	2	N	8	5	0	0	0	2	1	0	1	N	3	6	0	
PH	0 2	0	4	1	N	2	5	0	0	0	2	2	0	2	N	0	0	0	
CONDUCTIVITY, µmhos/cm	1 0	1	0	2	N	1	3	8	0	0	2	2	0	1	N	0	0	0	
ALCALINITY, mg/L	0 7	1	0	5	N	2	0	0	0	0	2	2	0	2	N	0	0	0	
(1) ELECTROMETRIC	0 8	1	0	1	N	6	6	0	0	0	2	2	0	3	N	0	0	0	
(2) VISUAL TITRATION	0 8	2	0	1	N	1	2	0	0	0	7	0	0	1	N	0	0	0	
NITROGEN(NO ₃ + NO ₂), mg/L	0 8	3	0	1	N	2	8	0	0	0	2	1	0	0	4	N	8	0	
DISSOLVED OXYGEN, mg/L	1 7	2	0	1	N	3	8	0	0	0	7	5	5	1	N	1	2	0	
BOD, mg/L	1 7	2	0	1	N	4	2	0	0	0	7	5	5	1	N	1	2	0	
COD, mg/L	1 6	3	0	1	N	0	0	0	0	0	0	5	1	0	N	0	0	0	
CHLORIDE, mg/L	1 6	3	0	1	N	0	0	0	0	0	0	5	1	0	N	0	0	0	
(1) ARGENTOMETRIC	1 6	3	0	2	N	4	2	0	0	0	0	5	1	0	N	0	0	0	
(2) MERCURIMETRIC	1 1	1	0	3	N	0	0	0	0	0	0	5	1	0	N	0	0	0	
SULPHATE, mg/L	2 0	1	0	1	N	2	4	0	0	0	0	5	1	0	N	0	0	0	
(1) GRAVIMETRIC	1 2	1	0	3	N	7	3	1	0	0	0	1	0	5	N	1	2	0	
(2) TURBIDIMETRIC	3 6	0	1	1	N	0	0	0	0	0	0	0	0	0	N	0	0	0	
SODIUM, mg/L																			
CALCIUM as CaCO ₃ , mg/L																			
MAGNESIUM as CaCO ₃ , mg/L																			
FECAL COLIFORM MPN/100mg/L																			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: **1 1 0 0**
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **2 1 0 6 1 7** 1 0 0 0
- WEATHER: Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Floody
- COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=Highly
- ODOUR: None Fishy H₂S Other
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High
- HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other
- LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial Area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Mahanadi at Kharod
 TYPE : RIVER
 COMPLETED BY : R. K. Ahirwar (Chemist)
 VERIFIED BY : P. K. Pandey (Asst. Engineer)
 AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE	ARBITRARY																
				9	7	1	6	7	N	VALUE										
TEMPERATURE, °c	0 2 0 0 1 N	3 6	0																	
PH	1 0 3 0 2 N	8	5																	
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N	1 5 0	0																	
ALKALINITY, mg/L																				
(1) ELECTROMETRIC	1 0 1 0 1 N																			
(2) VISUAL TITRATION	1 0 1 0 2 N	1 1 6	0																	
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N	1 8																		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6 8																		
BOD, mg/L	0 8 2 0 1 N	1 2																		
COD, mg/L	0 8 3 0 1 N	2 4	0																	
CHLORIDE, mg/L																				
(1) ARGENTOMETRIC	1 7 2 0 1 N	2 4	0																	
(2) MERCURIMETRIC	1 7 2 0 1 N																			
SULPHATE, mg/L																				
(1) GRAVIMETRIC	1 6 3 0 1 N																			
(2) TURBIDIMETRIC	1 6 3 0 2 N	2 2	0																	
SODIUM, mg/L	1 1 1 0 3 N																			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	1 0	4																	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	4 3 7																		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N																			
INSTANTANEOUS DISCHARGE, m ³ /s																				
TURBIDITY, JTU/NTU	0 2 1 0 1 N	1 4	0																	
VELOCITY OF FLOW, m/sec																				
(i) CURRENT METER	0 2 2 0 1 N																			
(ii) FLOAT	0 2 2 0 2 N																			
(iii) CHEMICAL	0 2 2 0 3 N																			
TOTAL KIELDAHL NITROGEN, mg/L																				
(i) TITRATION	0 7 0 0 1 N																			
(ii) NITROGENIZATION	0 7 0 0 4																			
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	4 4	0																	
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N	2 7	0																	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	8 8	0																	
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N	6 4	0																	
AMMONIA NITROGEN, mg/L																				
(i) COLOURIMETRY	0 7 5 5 5 N	1 1	1																	
(ii) DISTILLATION TITRATION	0 7 5 5 1 N																			
BORON DISSOLVED, mg/L	0 5 1 0 5 N																			
PHOSPHATE, mg/L																				
NITRITE, mg/L																				
Fluoride, Mg/L																				


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ASST. ENGINEER


CH. CHEMIST

**MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
MINARS/GEMS**

MINDAT / GLOWDAT

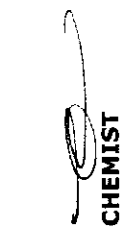
- STATION CODE: 1 1 0 6
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 1 0 6 1 7
- WEATHER: Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. > 100 cm. Floody
- COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=Highly
- ODOUR: None Fishy H₂S Other
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High
- HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other
- LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Hasdeo at Champa
 TYPE : 'RIVER'
 COMPLETED BY : R. K. Ahirwar (Chemist)
 VERIFIED BY : P.K. Pandey (Asst. Engineer)
 AGENCY : R. O. C. E. C. B. Bilaspur

WHO CODE AQC FLAG VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 3 4	0
pH	1 0 3 0	2 N 8 5	0
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 2 2	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 1 3 0	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 1 9	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 6 9	
BOD, mg/L	0 8 2 0	1 N 1 0	
COD, mg/L	0 8 3 0	1 N 2 0	
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 3 0	
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 3 2 0	
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 2 0	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 7 2 9	
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7	N	
TURBIDITY, JTU/NTU	0 2 1 0 1	N 2 8 0	
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0	1 N	
(ii) FLOAT	0 2 2 0	2 N	
(iii) CHEMICAL	0 2 2 0	3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0	1 N	
(ii) Nesslerization	0 7 0 0	4	
HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N 8 0 0	
TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N 4 3 0	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	N 1 1 0 0	
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	N 8 6 0	
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5	5 N 1 2	
(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
BORON DISSOLVED, mg/L	0 5 1 0	5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			


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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 4 6 7
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 1 0 6 1 7 1 4 0 0
- WEATHER: Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood
- COLOUR & INTENSITY: Clear Turbid Green Brown √1=Light 2=Moderate 3=High
- ODOUR: √None Fishy H₂S Other
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √none moderate High
- HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other

STATION : River Mahanadi at Balpur
 TYPE : RIVER
 COMPLETED BY : R. K. Ahirwar (Chemist)
 VERIFIED BY : P. K. Pandey (Asst. Engineer)
 AGENCY : R. O. C. E. C. B. Bilaspur

√ U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 3 5 . 0		
pH	1 0 3 0 2 N 8 . 0		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 2 4 8 . 0		
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 3 4 . 0		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 1 . 9		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 . 8		
BOD, mg/L	0 8 2 0 1 N 1 . 1		
COD, mg/L	0 8 3 0 1 N 2 4 . 0		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 6 . 0		
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 4 0 . 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 4 . 8		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 7 . 2 9		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
TURBIDITY, JTU/NTU	0 2 1 0 1 N 3 6 . 0		
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KIELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) Nesslerization	0 7 0 0 4		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 9 2 . 0		
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 4 6 . 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 2 8 . 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 8 4 . 0		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1 . 2		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: **1 1 0 0**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **2 8 1 1 1 7** **0 9 3 0**

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

STATION : River Mahanadi at Kharod
 TYPE : RIVER
 COMPLETED BY : R. K. Ahirwar (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

√ U/S of Town or Industrial Area	D/S of Town or Industrial area	Pilgrim Center / Bathing Ghat	Abstraction For Water Supply
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9. LOCATION DETAIL

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 6	0	
PH	1 0 3 0 2 N 8	0	
CONDUCTIVITY, μmhos/cm	0 2 0 4 1 N 1 4 5	0	
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 8 4	0	
NITROGEN(NO3 + NO2), mg/L	0 7 1 0 5 N 2	1	
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 8	4	
BOD, mg/L	0 8 2 0 1 N 1	1	
COD, mg/L	0 8 3 0 1 N 1 2	0	
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 2	0	
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 2 8	0	
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO3, mg/L	2 0 1 0 1 N 9	6	
MAGNESIUM as CaCO3, mg/L	1 2 1 0 3 N 2	9 2	
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
TURBIDITY, JTU/NTU	0 2 1 0 1 N 3 0	0	
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4		
HARDNESS as CaCO3 mg/L	2 2 1 0 1 N 3 6	0	
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 2 7	0	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 0 2	0	
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 7 1	0	
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1	0	
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: **1 1 0 6**
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **2 8 1 1 1 7** **1 3 2 0**
3. WEATHER: Cloudy Clear Windy Raining
4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood
5. COLOUR & INTENSITY: Clear Turbid Green Brown √I=Light 2=Moderate 3=High
6. ODOUR: √None Fishy H₂S Other
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √none moderate High
8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other
9. LOCATION DETAIL: √U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Hasdeo at Champa
 TYPE : 'RIVER'
 COMPLETED BY : R. K. Ahirwar (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

WHO CODE AQC FLAG VALUE

DETERMINDAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 7	5
pH	1 0 3 0	2 N 8	5
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 1 8 8	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 9 0	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 2	5
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7	8
BOD, mg/L	0 8 2 0	1 N 1	3
COD, mg/L	0 8 3 0	1 N 2 0	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 3 8	0
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 3 0	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 2	8
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 5	8 5
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	

DETERMINDAND ARBITRARY CODE AQC FLAG VALUE

DETERMINDAND	ARBITRARY CODE	AQC FLAG	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7	N	
TURBIDITY, JTU/NTU	0 2 1 0 1	N 4 7	0
VELOCITY OF FLOW, m/sec			
(I) CURRENT METER	0 2 2 0 1	N	
(II) FLOAT	0 2 2 0 2	N	
(III) CHEMICAL	0 2 2 0 3	N	
TOTAL KJELDAHL NITROGEN, mg/L			
(I) TITRATION	0 7 0 0 1	N	
(II) NITROGEN	0 7 0 0 4		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1	N 5 6	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1	N 5 0	0
FIXED DISSOLVED SOLIDS, mg/L	3 3 3 3 3	N 1 1 0	0
AMMONIA NITROGEN, mg/L	4 4 4 4 4	N 9 0	0
(I) COLOURIMETRY	0 7 5 5 5	N 1	1
(II) DISTILLATION TITRATION	0 7 5 5 1	N	
BORON DISSOLVED, mg/L	0 5 1 0 5	N	
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: **1 4 6 7**
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **2 8 1 1 1 7**
- WEATHER: Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood
- COLOUR & INTENSITY: Clear Turbid Green Brown √1=Light 2=Moderate 3=High COMPLETED BY: R. K. Ahinwar (Chemist)
- ODOUR: √None Fishy H₂S Other
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √none moderate High
- HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other
- LOCATION DETAIL: √U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Mahanadi at Balpur

TYPE : RIVER

COMPLETED BY : R. K. Ahinwar (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N	2 6 3		9 7 1 6 7 N		
pH	1 0 3 0 2 N	8 5		0 2 1 0 1 N	5 8	0
CONDUCTIVITY, μmhos/cm	0 2 0 4 1 N	2 1 7 0				
ALKALINITY, mg/L						
(1) ELECTROMETRIC	1 0 1 0 1 N			0 2 2 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N	1 0 8 0		0 2 2 0 2 N		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N	2 7 9		0 2 2 0 3 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7 9				
BOD, mg/L	0 8 2 0 1 N	1 5		0 7 0 0 1 N		
COD, mg/L	0 8 3 0 1 N	2 0 0		0 7 0 0 4		
CHLORIDE, mg/L				2 2 1 0 1 N	6 0	0
(1) ARGENTOMETRIC	1 7 2 0 1 N	4 2 0		3 7 0 0 1 N	7 0	0
(2) MERCURIMETRIC	1 7 2 0 1 N			3 3 3 3 3 N	1 4 3	0
SULPHATE, mg/L				4 4 4 4 4 N	9 2	0
(1) GRAVIMETRIC	1 6 3 0 1 N					
(2) TURBIDIMETRIC	1 6 3 0 2 N	3 5 0		0 7 5 5 5 N	1 1	1
SODIUM, mg/L	1 1 1 0 3 N			0 7 5 5 1 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	1 6 8		0 5 1 0 5 N		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	4 3 9				
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 1 0 0
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 5 1 2 1 7 0 9 0 0
- WEATHER: Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: $\sqrt{<50\text{cm.}}$ 50 - 100 m. > 100 cm. Flood
- COLOUR & INTENSITY: $\sqrt{\text{Clear}}$ Turbid Green Brown 1=Light 2=Moderate 3=High
- ODOUR: $\sqrt{\text{None}}$ Fishy H₂S Other
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: $\sqrt{\text{none}}$ moderate High
- HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

√ U/S of Town or Industrial Area	D/S of Town or Industrial Area	Pilgrim Center / Bathing Ghat	Abstraction For Water Supply
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LOCATION DETAIL

STATION : River Mahanadi at Kharod
 TYPE : RIVER
 COMPLETED BY : R. K. Ahirwar (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 4 . 0		
PH	1 0 3 0 2 N 8 . 0		
CONDUCTIVITY, μmhos/cm	0 2 0 4 1 N 1 3 0 . 0		
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 8 6 . 0		
NITROGEN(NO3 + NO2), mg/L	0 7 1 0 5 N 1 . 9		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 8 . 6		
BOD, mg/L	0 8 2 0 1 N 1 . 0		
COD, mg/L	0 8 3 0 1 N 1 0 . 0		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 1 8 . 0		
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 2 4 . 0		
SODIUM, mg/L	1 0 1 0 3 N		
CALCIUM, mg/L	2 0 1 0 1 N 8 . 8		
MAGNESIUM as CaCO3, mg/L	1 2 1 0 3 N 3 . 9		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
TURBIDITY, JTU/NTU	0 2 1 0 1 N 2 7 . 0		
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) NITROGEN	0 7 0 0 4		
(iii) NITROGEN	2 2 1 0 1 N 3 8 . 0		
HARDNESS as CaCO3 mg/L	3 7 0 0 1 N 2 2 . 0		
TOTAL COLIFORM, MPN/100ml	3 3 3 3 3 N 9 1 . 0		
TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 6 5 . 0		
FIXED DISSOLVED SOLIDS, mg/L			
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1 . 0		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: **1 4 6 7**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **1 5 1 2 1 7**

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Mahanadi at Balpur
 TYPE : RIVER
 COMPLETED BY : R. K. Ahirwar (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AOC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 4	0	0
pH	1 0 3 0 2 N 8	5	0
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 9 8	0	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 0 2	0	0
NITROGEN(NO3 + NO2), mg/L	0 7 1 0 5 N 2	4	
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 8	1	
BOD, mg/L	0 8 2 0 1 N 1	4	
COD, mg/L	0 8 3 0 1 N 1 8	0	
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 8	0	
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 3 1	0	
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO3, mg/L	2 0 1 0 1 N 1 2	0	
MAGNESIUM as CaCO3, mg/L	1 2 1 0 3 N 5	8	
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
TURBIDITY, JTU/NTU	0 2 1 0 1 N 5 2	0	0
VELOCITY OF FLOW, m/sec			
(I) CURRENT METER	0 2 2 0 1 N		
(II) FLOAT	0 2 2 0 2 N		
(III) CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(I) TITRATION	0 7 0 0 1 N		
(II) NESSELERIZATION	0 7 0 0 4		
HARDNESS as CaCO3, mg/L	2 2 1 0 1 N 5 4	0	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 5 0	0	0
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 9	0	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 8 4	0	0
AMMONIA NITROGEN, mg/L			
(I) COLOURIMETRY	0 7 5 5 5 N 1	0	0
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 1 0 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 5 1 2 1 7

3. WEATHER: Cloudy Clear Windy Raining Station: River Hasdeo at Champa

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. > 100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

COMPLETED BY: R. K. Ahirwar (Chemist)
 VERIFIED BY: Dr. Anita Yadav (Scientist)
 AGENCY: R. O. C. E. C. B. Bilaspur

WHO CODE: 0 2 0 0 1 N 2 4 5

AQC FLAGE: 1 0 3 0 2 N 8 5

VALUE: 0 2 0 4 1 N 1 7 2 0

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 4 5		
pH	1 0 3 0 2 N 8 5		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 7 2 0		
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N 8 6 0		
(2) VISUAL TITRATION	1 0 1 0 2 N 8 6 0		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 2 3		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 8 0		
BOD, mg/L	0 8 2 0 1 N 1 2		
COD, mg/L	0 8 3 0 1 N 1 6 0		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 5 0		
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 2 8 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 2 0		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5 3 6		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

DETERMINDAND: INSTANTANEOUS DISCHARGE, m³/s

ARBITRARY CODE: 9 7 1 6 7 N

VALUE: 0 2 1 0 1 N 4 3 0

DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0 2 1 0 1 N 4 3 0		
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) Nesslerization	0 7 0 0 4		
HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N 5 2 0		
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 4 0 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 9 7 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 8 1 0		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1 0		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

[Signature]
CHEMIST

[Signature]
SCIENTIST

[Signature]
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE: 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 1 0 1 8 0 4 : 2 0 P M

3. WEATHER: Clody Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: TALAB WATER

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town or Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: NEHRU NAGAR TALAB
BHILAI DIST. DURG

COMPLETED BY: N. K. PATEL
VERIFIED BY: U.K. MANDAL
AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND	ARBITRARY		AQCFLAG		VALUE		
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	CODE	CODE	CODE	CODE	
TEMPERATURE, °C	02	00	1N				TURBIDITY, JTU/NTU	2	10	1N				
pH	10	30	2N	7	4	3	VELOCITY OF FLOW, m/sec							
CONDUCTIVITY, µghos/cm	02	04	1N				(i)CURRENT METER	2	20	1N				
ALKALINITY, mg/L							(ii)FLOATE	2	20	2N				
(1)ELECTOMETRIC	10	10	1N				(iii)CHEMICAL	2	20	3N				
(2)VISUAL TITRATION	10	10	2N	1	7	6	TOTAL KJELDAHL NITROGEN, mg/L							
NITROGEN(NO ₃ +NO ₂), mg/L	07	10	5N				(i)TITRATION	7	00	1N				
DISSOLVED OXYGEN, mg/L	08	10	1N	6	7		(ii)NESSELERIZATION	7	00	4N				
BOD, mg/l	08	20	1N				HARDNESS as CaCO ₃ , mg/L	2	10	1N	1	6	2	
COD, mg/L	08	30	1N	1	6	1	TOTAL COLIFORM, MPN/100ml	7	00	1N				
CHLORIDE, mg/L						8	4	TOTAL DISSOLVED SOLIDS, mg/l	3	33	3N	2	8	0
(1)ARGENTOMETRIC	17	20	1N	8	2	0	FIXED DISSOLVED SOLIDS, mg/L	4	44	4N				
(2)MERCURIMETRIC	17	20	1N				AMMONIAM NITROGEN, mg/L							
SULPHATE, mg/L							(i)COLOURIMETRY	7	55	5N				
(1)GRAVIMETRIC	16	30	1N				(ii)DISTILLATION TITRATION	7	55	1N				
(2)TURBIDIMETRIC	16	30	2N				BORON DISSOLVED, mg/L	5	10	5N				
SODIUM, mg/l	11	10	3N				PHOSPHATE, mg/L							
CALCIUM as CaCO ₃ , mg/L	20	10	1N	3	4	4	NITRITE mg/L							
MAGENESIUM as CaCO ₃ , mg/L	12	10	3N	1	8	5	SUSPENDED SOLID mg/L				6	0	0	
FECAL COLIFORM MPN/100ml	36	01	1N											
INSTANTANEOUS DISCHARGE, m ³	97	16	7N											

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE 1 8 4 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 0 1 0 1 1 8 1 1 : 0 0 A M

3. WEATHER
 Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR
 None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other Pilgrim Center/
 U/s of industrial Area D/s of Town of Industrial Area Bath Gath Abstraction For Water Supply

9. LOCATION DETAIL

STATION : RIVER SHEONATH AT DURG
 TYPE : NEAR W/S INTAKE WELL POINT
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCF		VALUE	DETERMINAND	AQCF		VALUE
	CODE	QCFLAG	CODE	QCFLAG			CODE	QCFLAG	
TEMPERATURE, °C	0 2 0 0	1 N				TURBIDITY, JT/UNTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N	7	4 3		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N				(i)CURRENT METER	0 2 2 0	1 N	
ALKALINITY, mg/L						(ii)FLOATE	0 2 2 0	2 N	
(1)ELECTOMETRIC	1 0 1 0	1 N				(iii)CHEMICAL	0 2 2 0	3 N	
(2)VISUAL TITRATION	1 0 1 0	2 N	9 8	0		(i)TITRATION	0 7 0 0	1 N	
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N				(ii)NESSELERIZATION	0 7 0 0	4 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7	4		HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	1 4 0
BOD, mg/l	0 8 2 0	1 N				TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
COD, mg/L	0 8 3 0	1 N	1 9	6		TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	1 9 0
CHLORIDE, mg/L						FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(1)ARGENTOMETRIC	1 7 2 0	1 N	3 6	0		AMMONIAM NITROGEN, mg/L			
(2)MERCURIMETRIC	1 7 2 0	1 N				(i)COLOURIMETRY	0 7 5 5	5 N	
SULPHATE, mg/L						(ii)DISTILATION TITRATION	0 7 5 5	1 N	
(1)GRAVIMETRIC	1 6 3 0	1 N				BORON DISSOLVED, mg/L	0 5 1 0	5 N	
(2)TURBIDIMETRIC	1 6 3 0	2 N				PHOSPHATE, mg/L			
SODIUM, mg/L	1 1 1 0	3 N				NITRITE mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	1 9	2		SUSPENDED SOLID, mg/L			4 0 0
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N							
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N							
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N							

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/ GLOWDAT

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3 1 6 6
0 9 0 1 1 8 1 1 : 0 0 A M

3. WEATHER

Cloudy Windy Clear Raining

STATION: RIVER SHEONATH AT
JHINJHRI VILLAGE, DURG

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY

Clear Turbid Green Brown 1=light 2=Moderate 3=High

TYPE : AFTER CONFLUENCE OF
SAMODA NALLA

6. ODOUR

None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishery Other

COMPLETED BY : N. K. PATEL

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing Other

VERIFIED BY : U.K.MANDAL

9. LOCATION DETAIL

U/s of Town or industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 0 1 N		0 2 1 0 1 N	
pH	1 0 3 0 2 N	7 . 4 1		
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			
ALKALINITY, mg/L				
(1)ELECTOMETRIC	1 0 1 0 1 N			
(2)VISUAL TITRATION	1 0 1 0 2 N	9 8 . 0		
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7 . 6		
BOD, mg/l	0 8 2 0 1 N			
COD, mg/L	0 8 3 0 1 N	2 9 . 0 4		
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 8 . 0		
(2)MERCURIMETRIC	1 7 2 0 1 N			
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N			
SODIUM, mg/L	1 1 1 0 3 N			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 0 . 0		
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 5 . 1 2		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N			

DETERMINAND	ARBITRARY	
	CODE	AQCFLAG
TURBIDITY, JT/UNTU	0 2 1 0 1 N	
VELOCITY OF FLOW, m/sec		
(i)CURRENT METER	0 2 2 0 1 N	
(ii)FLOATE	0 2 2 0 2 N	
(iii)CHEMICAL	0 2 2 0 3 N	
TOTAL KJELDAHL NITROGEN, mg/L		
(i)TITRATION	0 7 0 0 1 N	
(ii)NESSELERIZATION	0 7 0 0 4 N	
HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 1 0 . 0
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 N	2 1 0 . 0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N	
AMMONIAM NITROGEN, mg/L		
(i)COLOURIMETRY	0 7 5 5 5 N	
(ii)DISTILLATION TITRATION	0 7 5 5 1 N	
BORON DISSOLVED, mg/L	0 5 1 0 5 N	
PHOSPHATE, mg/L		
NITRITE mg/L		
SUSPENDED SOLID, mg/L		4 0 . 0

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 8 4 6
2 3 0 1 1 8 0 3 : 1 0 P M

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL U/s of Town or industrial Area Dis of Town of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER KHARON AT DURG
 TYPE : AFTER KHAPRI NALLA
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND	ARBITRARY		VALUE
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	
TEMPERTURE, °C	0 2 0 0 1 N						TURBIDITY, JT/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7.	3	4			VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N						(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L							(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N						(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 0 4.	0				TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N						(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7.	2				(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N						HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 2 0.	0
COD, mg/L	0 8 3 0 1 N	2 9.	4				TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L							TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 N	2 6 0.	0
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 8.	0				FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N						AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L							(i)COLOURIMETRY	0 7 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N						(ii)DISTILATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N						BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N						PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 0.	8				NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 6.	5 8				SUSPENDED SOLID, mg/L		6 0.	0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N									
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N									

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDATI/GLOWDAT

1. STATION CODE: 1 8 4 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 0 1 1 8 0 2 : 4 5 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or industrial area D/s of Town or industrial area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER KHAROON AT DURG
 TYPE : UP STEAM NEAR DURG- RAIPUR ROAD - BRIDGE
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K.MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7	3	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1	0 2 . 0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7	2	(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 1 6 . 0	
COD, mg/L	0 8 3 0 1 N	2 9 . 4		TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	2 6 0 . 0	
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 8 . 0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	1 8 . 4		NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 7 . 0 7		SUSPENDED SOLID,mg/L		5 0 . 0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

N. K. Patel

N. K. Patel

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 9 0 1 1 8 0 4 : 3 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or D/s of Town of Pilgrim Center/
 industrial Area Bath Gath Abstraction For
 Industrial Area Water Supply

STATION : RIVER SHEONATH AT
 RAJNANDGAON

TYPE : NEAR MOHAD VILLAGE DOWN STEAM
 COMPLETED BY : N. K. PATEL

VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND	ARBITRARY		AQCFLAG		VALUE	
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	CODE	CODE	CODE	CODE
TEMPERATURE, °C	0 2 0 0	1 N					TURBIDITY, JTU/NTU	2	1 0 1 N				
pH	1 0 3 0	2 N	7	6			VELOCITY OF FLOW, m/sec						
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N					(i)CURRENT METER	2	2 0 1 N				
ALKALINITY, mg/L							(ii)FLOATE	2	2 0 2 N				
(1)ELECTOMETRIC	1 0 1 0	1 N					(iii)CHEMICAL	2	2 0 3 N				
(2)VISUAL TITRATION	1 0 1 0	2 N	9	8	0		TOTAL KJELDAHL NITROGEN, mg/L						
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N					(i)TITRATION	7	0 0 1 N				
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7	4			(ii)NESSELERIZATION	7	0 0 4 N				
BOD, mg/l	0 8 2 0	1 N					HARDNESS as CaCO ₃ , mg/L	2	1 0 1 N	1	2	0	
COD, mg/L	0 8 3 0	1 N	2	9	4		TOTAL COLIFORM, MPN/100ml	7	0 0 1 N				
CHLORIDE, mg/L							TOTAL DISSOLVED SOLIDS, mg/l	3	3 3 N	2	1	0	0
(1)ARGENTOMETRIC	1 7 2 0	1 N	3	4	0		FIXED DISSOLVED SOLIDS, mg/L	4	4 4 N				
(2)MERCURIMETRIC	1 7 2 0	1 N					AMMONIAM NITROGEN, mg/L						
SULPHATE, mg/L							(i)COLOURIMETRY	7	5 5 N				
(1)GRAVIMETRIC	1 6 3 0	1 N					(ii)DISTILLATION TITRATION	7	5 5 1 N				
(2)TURBIDIMETRIC	1 6 3 0	2 N					BORON DISSOLVED, mg/L	5	1 0 5 N				
SODIUM, mg/L	1 1 1 0	3 N					PHOSPHATE, mg/l						
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	1	8	4		NITRITE mg/L						
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1	6	0	9	SUSPENDED SOLI mg/L					5	0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N											
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N											

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE: 1107

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 29/01/18 01:35 PM

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER SHEONATH AT RAJNANDGAON
 TYPE: NEAR W/S INTAKE-WELL POINT
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	ARBITRARY	
				CODE	AQCFLAG
TEMPERATURE, °C	02001N			02101N	
pH	10302N	7.34			
CONDUCTIVITY, µghos/cm	02041N			02201N	
ALKALINITY, mg/L				02202N	
(1)ELECTOMETRIC	10101N			02203N	
(2)VISUAL TITRATION	10102N				
NITROGEN(NO ₃ +NO ₂), mg/L	07105N				
DISSOLVED OXYGEN, mg/L	08101N	7.4			
BOD, mg/l	08201N				
COD, mg/L	08301N	19.6			
CHLORIDE, mg/L		38.0			
(1)ARGENTOMETRIC	17201N			3333N	220.0
(2)MERCURIMETRIC	17201N			4444N	
SULPHATE, mg/L					
(1)GRAVIMETRIC	16301N			07555N	
(2)TURBIDIMETRIC	16302N			07551N	
SODIUM, mg/L	11103N				
CALCIUM as CaCO ₃ , mg/L	20101N	19.2			
MAGENESIUM as CaCO ₃ , mg/L	12103N				
FECAL COLIFORM MPNI/100ml	36011N				
INSTANTANEOUS DISCHARGE, m ³	97167N				
TURBIDITY, JTU/NTU					
VELOCITY OF FLOW, m/sec					
(i)CURRENT METER					
(ii)FLOATE					
(iii)CHEMICAL					
TOTAL KJELDAHL NITROGEN, mg/L					
(i)TITRATION					
(ii)NESSELERIZATION					
HARDNESS as CaCO ₃ , mg/L					
TOTAL COLIFORM, MPNI/100ml					
TOTAL DISSOLVED SOLIDS, mg/L					
FIXED DISSOLVED SOLIDS, mg/L					
AMMONIUM NITROGEN, mg/L					
(i)COLOURIMETRY					
(ii)DISTILLATION TITRATION					
BORON DISSOLVED, mg/L					
PHOSPHATE, mg/l					
NITRITE mg/L					
SUSPENDED SOLID, mg/L					50.0

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 0 0 1 1 8 0 4 : 1 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: HITKASA TAILING DAM, RESERVIIR
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCF	FLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1	N		TURBIDITY, JT/UNTU	2	1 0	1	N
pH	1 0 3 0	2	N	7 . 5 2	VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, µghos/cm	0 2 0 4	1	N		(i)CURRENT METER	2	2 0	1	N
ALKALINITY, mg/L					(ii)FLOATE	2	2 0	2	N
(1)ELECTOMETRIC	1 0 1 0	1	N		(iii)CHEMICAL	2	2 0	3	N
(2)VISUAL TITRATION	1 0 1 0	2	N	1 2 4 . 0	TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5	N		(i)TITRATION	7	0 0	1	N
DISSOLVED OXYGEN, mg/L	0 8 1 0	1	N	6 . 8	(ii)NESSELERIZATION	7	0 0	4	N
BOD, mg/l	0 8 2 0	1	N		HARDNESS as CaCO ₃ , mg/L	2	1 0	1	N
COD, mg/L	0 8 3 0	1	N	1 6 6 . 6	TOTAL COLIFORM, MPN/100ml	7	0 0	1	N
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3	3 3	3	N
(1)ARGENTOMETRIC	1 7 2 0	1	N	7 4 . 0	FIXED DISSOLVED SOLIDS, mg/L	4	4 4	4	N
(2)MERCURIMETRIC	1 7 2 0	1	N		AMMONIAM NITROGEN, mg/L				
SULPHATE, mg/L					(i)COLOURIMETRY	7	5 5	5	N
(1)GRAVIMETRIC	1 6 3 0	1	N		(ii)DISTILATION TITRATION	7	5 5	1	N
(2)TURBIDIMETRIC	1 6 3 0	2	N		BORON DISSOLVED, mg/L	5	1 0	5	N
SODIUM, mg/L	1 1 1 0	3	N		PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1	N	3 4 . 4	NITRITE mg/L				
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3	N	1 1 . 2 1	SUSPENDED SOLI mg/L				
FECAL COLIFORM MPN/100ml	3 6 0 1	1	N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7	N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

VINAY K PATEL
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 5
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 8 0 2 1 7 1 0 : 4 0 A M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green. Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Meion Farming Fising Other VERIFIED BY: U.K. MANDAL
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply
 STATION: RIVER SHEONATH AT OURG
 TYPE: NEAR W/S INTAKE WELL POINT
 COMPLETED BY: N. K. PATEL

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 1 0	1 N	0 2 1 0 1	1 N
pH	1 0 3 1 0	2 N	7 4	
CONDUCTIVITY, µghos/cm	0 2 0 1 4	1 N		
ALKALINITY, mg/L	1 0 1 1 0	1 N		
(1)ELECTOMETRIC	1 0 1 1 0	2 N	9 6	0
(2)VISUAL TITRATION	0 7 1 1 0	5 N		
NITROGEN(NO ₃ +NO ₂), mg/L	0 8 1 1 0	1 N	7 4	
DISSOLVED OXYGEN, mg/L	0 8 2 1 0	1 N		
BOD, mg/l	0 8 3 1 0	1 N	2 8	5 6
CHLORIDE, mg/L	1 7 2 1 0	1 N	2 4	0
(1)ARGENTOMETRIC	1 7 2 1 0	1 N		
(2)MERCURIMETRIC	1 7 2 1 0	1 N		
SULPHATE, mg/L	1 6 3 1 0	1 N		
(1)GRAVIMETRIC	1 6 3 1 0	2 N		
(2)TURBIDIMETRIC	1 1 1 1 0	3 N		
SODIUM, mg/L	2 0 1 1 0	1 N		
CALCIUM as CaCO ₃ , mg/L	1 2 1 1 0	3 N		
MAGENESIUM as CaCO ₃ , mg/L	3 6 0 1 1	1 N		
FECAL COLIFORM MPN/100ml	7 1 1 6	7 N		
INSTANTANEOUS DISCHARGE, m				
TURBIDITY, JT/UNTU			0 2 1 0 1	1 N
VELOCITY OF FLOW, m/sec				
(1)CURRENT METER			0 2 2 0 1	1 N
(2)FLOATE			0 2 2 0 2	1 N
(3)CHEMICAL			0 2 2 0 3	1 N
TOTAL KJELDAHL NITROGEN, mg/L			0 7 0 0 1	1 N
(1)TITRATION			0 7 0 0 4	1 N
(2)NESSELERIZATION			2 2 1 0 1	1 N
HARDNESS as CaCO ₃ , mg/L			8 4	0
TOTAL COLIFORM, MPN/100ml			3 7 0 0 1	1 N
TOTAL DISSOLVED SOLIDS, mg/L			3 3 3 3 3	3 2 0 0
FIXED DISSOLVED SOLIDS, mg/L			4 4 4 4 4	1 N
AMMONIUM NITROGEN, mg/L				
(1)COLOURIMETRY			0 7 5 5 5	1 N
(2)DISTILLATION TITRATION			0 7 5 5 1	1 N
BORON DISSOLVED, mg/L			0 5 1 0 5	1 N
PHOSPHATE, mg/L				
NITRITE, mg/L				
SUSPENDED SOLID, mg/L				5 0 0

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARIS/GEVIS
MINDAT/GLOWDAT

1. STATION CODE 1 1 0 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 8 0 2 1 7 0 2 : 3 0 P M
 3. WEATHER Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM Clear Turbid Green Brown >100cm. 1=light 2=Moderate 3=High
 5. COLOUR & INTENSITY None Fishy H₂S Other
 6. ODOUR
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT Cattle Wading Melon Farming Fising Other
 8. HUMAN ACTIVITIES AROUND STATION
 9. LOCATION DETAIL U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT
 RAJNANDGAON
 TYPE : NEAR W/S INTAKE-WELL POINT
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	QCFLAG	VALUE	DETERMINAND	WHO CODE	QCFLAG	VALUE
TEMPERATURE, °C	0210	01N		TURBIDITY JT/UNTU	0210	1N	
pH	1030	2N	7.4	VELOCITY OF FLOW, m/sec	0220	1N	
CONDUCTIVITY, μ hos/cm	0210	41N		(i) CURRENT METER	0220	01N	
ALKALINITY, mg/L				(ii) FLOATE	0220	02N	
(1) ELECTOMETRIC	1010	01N		(iii) CHEMICAL	0220	03N	
(2) VISUAL TITRATION	1010	2N	9.6	TOTAL KJELDAHL NITROGEN, mg/L	0700	01N	
NITROGEN (NO ₃ +NO ₂), mg/L	0710	5N		(i) TITRATION	0700	04N	
DISSOLVED OXYGEN, mg/L	0810	11N	7.2	(ii) NITROGEN	0700	04N	
BOD, mg/l	0820	01N		HARDNESS as CaCO ₃ , mg/L	2210	01N	8.6
COD, mg/L	0830	01N	2.8	TOTAL COLIFORM, MPN/100ml	3700	01N	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3330	3N	2.9
(1) ARGENTOMETRIC	1720	01N	2.8	FIXED DISSOLVED SOLIDS, mg/L	4440	4N	
(2) MERCURIMETRIC	1720	01N		AMMONIUM NITROGEN, mg/L	0750	5N	
SULPHATE, mg/L				(i) COLOURIMETRY	0750	5N	
(1) GRAVIMETRIC	1630	01N		(ii) DISTILLATION TITRATION	0750	5N	
(2) TURBIDIMETRIC	1630	02N		BORON DISSOLVED, mg/L	0510	05N	
SODIUM, mg/L	1110	03N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2010	01N		NITRITE, mg/l			
MAGNESIUM as CaCO ₃ , mg/L	1210	03N		SUSPENDED SOLID mg/L			4.0
FECAL COLIFORM MPN/100ml	3600	01N					
INSTANTANEOUS DISCHARGE, m ³	9716	7N					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

VINAYSAHEVA
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 8 0 2 1 7 1 2 : 3 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town or Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT
 RAJNANDGAON
 TYPE : NEAR MOHAD VILLAGE DOWN STEAM
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	ACCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	ACCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JTU/NTU	2 1 0 1 N		
pH	1 0 3 0 2 N	7	5	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(1)CURRENT METER	2 2 0 1 N		
ALKALINITY, mg/L				(1)FLOATE	2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(1)CHEMICAL	2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	9 8	0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(1)TITRATION	7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7	2	(1)MESSELERZATION	7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N	8 6	0
COD, mg/L	0 8 3 0 1 N	2 9	4	TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 3 N	3 0 0	0
(1)ARGENTOMETRIC	1 7 2 0 1 N	2 8	0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIUM NITROGEN, mg/L			
SULPHATE, mg/L				(1)COLOURIMETRY	7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(1)DISTILLATION TITRATION	7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N			NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N			SUSPENDED SOLID, mg/L		5 0	0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³ /9 7 1 6 7 N							

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

VANARAJAN
MANDAT/GLOWDAT

1. STATION CODE: 3 1 6 6
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 5 0 2 1 7 1 1 1 5 0 1 A M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Food
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply
 STATION: RIVER SHEONATH AT JHINJHRI VILLAGE, DURG
 TYPE: AFTER CONFLUENCE OF SAMODA NALLA
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	QCFLAG	CODE	QCFLAG
TEMPERATURE, °C	0 2 0 0 1 N			
pH	1 0 3 0 2 N	8 1		
CONDUCTIVITY, µhos/cm	0 2 0 4 1 N			
ALKALINITY, mg/L				
(1) ELECTROMETRIC	1 0 1 0 1 N			
(2) VISUAL TITRATION	1 0 1 0 2 N	1 4 8 0		
NITROGEN (NO ₃ -N), mg/L	0 7 1 0 5 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	5 2		
BOD, mg/l	0 8 2 0 1 N			
COD, mg/L	0 8 3 0 1 N	2 1 0 9 6		
CHLORIDE, mg/L				
(1) ARGENTOMETRIC	1 7 2 0 1 N	7 2 0		
(2) MERCURIMETRIC	1 7 2 0 1 N			
SULPHATE, mg/L				
(1) GRAVIMETRIC	1 6 3 0 1 N			
(2) TURBIDIMETRIC	1 6 3 0 2 N			
SODIUM, mg/L	1 1 1 0 3 N			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N			
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N			
DETERMINAND				
TURBIDITY, JTUNTU				
VELOCITY OF FLOW, m/sec				
(i) CURRENT METER				
(ii) FLOATE				
(iii) CHEMICAL				
TOTAL Kjeldahl Nitrogen, mg/L				
(i) TITRATION				
(ii) NITROSELENERIZATION				
HARDNESS as CaCO ₃ , mg/L				
TOTAL COLIFORM MPN/100ml				
TOTAL DISSOLVED SOLIDS, mg/L				
FIXED DISSOLVED SOLIDS, mg/L				
AMMONIUM NITROGEN, mg/L				
(i) COLOURIMETRY				
(ii) DISTILLATION TITRATION				
BORON DISSOLVED, mg/L				
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLID mg/L				

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

VINAYAKRISHNAN
[MINDATI GLOWDAT]

1. STATION CODE: 1 8 4 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 5 0 2 1 7 1 2 : 2 0 P M

3. WEATHER
 Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR
 None Fishy F/S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
 None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION
 Cattle Wading Melon Farming Fishing Other

9. LOCATION OF TAIL
 U/s of Town or Industrial Area D/s of Town or Industrial Area Bath Gath Abstraction For Water Supply

STATION : RIVER KHARON AT DURG
 TYPE : AFTER KHAPRI NALLA
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCF	FLAG	VALUE	DETERMINAND	CODE	AQCF	FLAG	VALUE
TEMPERATURE, °C	02	0	01	N	TURBIDITY, JTU/NTU	02	1	01	N
pH	10	3	02	N	VELOCITY OF FLOW, m/sec	02	2	01	N
CONDUCTIVITY, µhos/cm	02	0	4	N	(i)CURRENT METER	02	2	01	N
ALKALINITY, mg/L	10	1	01	N	(ii)FLOATE	02	2	02	N
(1)ELECTOMETRIC	10	1	01	N	(iii)CHEMICAL	02	2	03	N
(2)VISUAL TITRATION	10	1	02	N	TOTAL KJELDAHL NITROGEN, mg/L	07	0	01	N
NITROGEN(NO ₃ +NO ₂), mg/L	07	1	05	N	(i)TITRATION	07	0	04	N
DISSOLVED OXYGEN, mg/L	08	1	01	N	(ii)NESSELERIZATION	07	0	04	N
BOD, mg/l	08	2	01	N	HARDNESS as CaCO ₃ , mg/L	22	1	01	N
COD, mg/l	08	3	01	N	TOTAL COLIFORM, MPN/100ml	37	0	01	N
CHLORIDE, mg/L	17	2	01	N	TOTAL DISSOLVED SOLIDS, mg/L	33	3	3	N
(1)ARGENTOMETRIC	17	2	01	N	FIXED DISSOLVED SOLIDS, mg/L	44	4	4	N
(2)MERCURIMETRIC	17	2	01	N	AMMONIUM NITROGEN, mg/L				
SULPHATE, mg/L	16	3	01	N	(i)COLOURIMETRY	07	5	5	N
(1)GRAVIMETRIC	16	3	01	N	(ii)DISTILLATION TITRATION	07	5	5	N
(2)TURBIDIMETRIC	11	1	03	N	BORON DISSOLVED, mg/L	05	1	05	N
SODIUM, mg/L	20	1	01	N	PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	12	1	03	N	NITRITE, mg/L				
MAGNESIUM as CaCO ₃ , mg/L	12	1	03	N	SUSPENDED SOLID, mg/L				
FECAL COLIFORM MPN/100ml	36	0	1	N					
INSTANTANEOUS DISCHARGE, m ³	19	7	1	6	7				

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

VARANASI/GENMS
MANDATI/GLOWDAT

1 STATION CODE: 1 1 8 4 7
 2 DATE & TIME OF SAMPLE TAKEN (DDMM/YY): 2 5 10 2 1 7 1 1 1 : 4 0 A M
 3 WEATHER: Cloudy Windy Clear Raining
 4 APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5 COLOR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6 ODOUR: None Fishy H₂S Other
 7 VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8 HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other
 9 LOCATION DETAIL: U/s of Town or Industrial area D/s of Town or Industrial area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER KHARON AT DURG
 UP STEAM NEAR DURG- RAIPUR
 ROAD - BRIDGE

COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	ACCFLAG	VALUE	DETERMINAND	CODE	ACCFLAG	VALUE
TEMPERATURE, °C	0 2 1 0 0 1 1 N			TURBIDITY, JTUNTU	0 2 1 1 0 1 N		
pH	1 0 3 0 2 1 N 7 6			VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 1 N 1 2 2 0			TOTAL KJELDAHL NITROGEN, mg/L	0 7 0 0 1 N		
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 1 5 N			(i)TITRATION	0 7 0 0 4 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 1 N 6 8			(ii)NESSELERIZATION	2 2 1 0 1 N 1 1 6 0		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	3 7 0 0 1 N		
COD, mg/l	0 8 3 0 1 1 N 2 9 4			TOTAL COLIFORM, MPN/100ml	3 3 3 3 3 N 3 1 0 0		
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(1)ARGENTOMETRIC	1 7 2 0 1 1 N 3 6 0			AMMONIUM NITROGEN, mg/L			
(2)MERCURIMETRIC	1 7 2 0 1 1 N			(i)COLOURIMETRY	0 7 5 1 5 N		
SULPHATE, mg/L				(ii)DISTILLATION TITRATION	0 7 5 1 1 N		
(1)GRAVIMETRIC	1 6 3 0 1 1 N			BORON DISSOLVED, mg/L	0 5 1 0 1 5 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			PHOSPHATE, mg/L			
SODIUM, mg/L	1 1 1 0 3 N			NITRITE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 1 N			SUSPENDED SOLID, mg/L	4 0 1 0		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N						
FECAL COLIFORM MPN/100ml	3 6 0 1 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/C/165

1. STATION CODE: **31164**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **25/02/17 03:35 PM**

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION ID: U/s of Town or Industrial Area D/s of Town or Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: **NEHRU NAGAR TALAB BHILAI DIST. DURG** TYPE: **TALAB WATER**

COMPLETED BY: **N. K. PAEL** VERIFIED BY: **U.K. MANDAL**

AGENCY: **R. O. C. E. C. B. BHILAI**

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	02001N		2101N	
pH	10302N	7		
CONDUCTIVITY, µghes/cm	020041N			
ALKALINITY, mg/L				
(1) ELECTOMETRIC	10101N			
(2) VISUAL TITRATION	10102N	1720		
NITROGEN (NO ₃ +NO ₂), mg/L	07105N			
DISSOLVED OXYGEN, mg/L	08101N			
BOD, mg/l	08201N			
COD, mg/l	08301N	1862		
CHLORIDE, mg/L				
(1) ARGENTOMETRIC	17201N	720		
(2) MERCURIMETRIC	17201N			
SULPHATE, mg/L				
(1) GRAVIMETRIC	16301N			
(2) TURBIDIMETRIC	16302N			
SODIUM, mg/L	11103N			
CALCIUM as CaCO ₃ , mg/L	20101N			
MAGNESIUM as CaCO ₃ , mg/L	12103N			
FECAL COLIFORM MPN/100ml	36011N			
INSTANTANEOUS DISCHARGE, m ³ /d	1907167N			
TURBIDITY, JTU/NTU				
VELOCITY OF FLOW, m/sec				
(i) CURRENT METER	2201N			
(ii) FLOATE	2202N			
TOTAL KJELDAHL NITROGEN, mg/L	2203N			
(i) TITRATION	7001N			
(ii) NITROELAZATION	7004N			
HARDNESS as CaCO ₃ , mg/L	2101N	1320		
TOTAL COLIFORM, MPN/100ml	7001N			
TOTAL DISSOLVED SOLIDS, mg/l	3333N	3500		
FIXED DISSOLVED SOLIDS, mg/L	4444N			
AMMONIUM NITROGEN, mg/L				
(i) COLOURIMETRY	7555N			
(ii) DISTILLATION TITRATION	7551N			
BORON DISSOLVED, mg/L	5105N			
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLID mg/L				800

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

VYARAGEMS

MANDAT/ GLOWDAT

1 STATION CODE: 3163
 2 DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 28/02/17 12:45 PM
 3 WIND DIRECTION: Cloudy Windy Clear Raining
 4 APPROX DIPTH OF MAIN STREAM: $\frac{1}{2}$ ft: 100cm. >100cm. Flood
 5 COLOR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6 ODOUR: None Fishy H₂S Other
 7 CHEMICAL DISCHARGE IN PROXIMITY: None Fishery Other
 8 HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other
 9 LOCATION DATA: U/s of Town or Industrial Area D/s of Town or Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD

TYPE: HITKASA TAILING DAM, RESERVIUR
 COMPLETED BY: N. K. PATEL

VERIFIED BY: U.K.MANDAL

AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AOCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AOCFLAG	VALUE										
								TURBIDITY JT/UNTU	VELOCITY OF FLOW, m/sec	(i)CURRENT METER	(ii)FLOATE	(iii)CHEMICAL	(i)TITRATION	(ii)NESSELERIZATION	HARDNESS as CaCO ₃ , mg/L	TOTAL COLIFORM, MPN/100ml	TOTAL DISSOLVED SOLIDS, mg/L
TEMPERATURE, °C	0200	1N			2101	1N											
pH	1030	2N	7														
CONDUCTIVITY, µghes/cm	0204	1N															
ALKALINITY, mg/L																	
(1)ELECTOMETRIC	1010	1N															
(2)VISUAL TITRATION	1010	2N	3														
NITROGENO ₃ +NO ₂ , mg/L	0710	5N	0														
DISSOLVED OXYGEN, mg/L	0810	1N															
BOD, mg/l	0620	1N															
CHLORIDE, mg/L	0830	1N	27														
(1)ARGENTOMETRIC	1720	1N	5														
(2)MERCURIMETRIC	1720	1N	0														
SULPHATE, mg/L																	
(1)GRAVIMETRIC	1163	01N															
(2)TURBIDIMETRIC	1163	02N															
SODIUM, mg/L	1110	13N															
CALCIUM as CaCO ₃ , mg/L	2101	01N															
MAGENESIUM as CaCO ₃ , mg/L	1210	03N															
FECAL COLIFORM MPN/100ml	3601	1N															
INSTANTANEOUS DISCHARGE, m ³	9171	167N															

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE 1 8 4 6
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 1 0 3 1 7 1 2 : 1 0 P M

3. WEATHER
 4. APPROX DEPTH OF MAIN STREAM <50cm 50-100cm >100cm Raining
 5. COLOUR & INTENSITY Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR None Fishy H₂S Other

STATION : RIVER KHARROON AT DURG
 TYPE : AFTER KHAPRI NALLA
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other AGENCY : R. O. C. E. C. B. BHILAI
 9. LOCATION DETAIL U/s of Town or Industrial Area D/s of town of Industrial Area Piggm Center/ Bath Gath Abstraction For Water Supply

DETERMINAND	CODE	ACQFLAG	VALUE	DETERMINAND	CODE	ACQFLAG	VALUE
TEMPERATURE, °C	02	01	1N	TURBIDITY, JTUNTU	02	10	1N
PH	11	03	2N	VELOCITY OF FLOW, m/sec	02	20	1N
CONDUCTIVITY, µghos/cm	02	04	1N	(I)CURRENT METER	02	20	1N
ALKALINITY, mg/L	10	10	1N	(II)FLUATE	02	20	2N
(I)ELECTOMETRIC	10	10	1N	(III)CHEMICAL	02	20	3N
(2)VISUAL TITRATION	10	10	2N	TOTAL KJELDAHL NITROGEN, mg/L	07	00	1N
NITROGEN(NO ₃ +NO ₂), mg/L	07	10	5N	(I)TITRATION	07	00	4N
DISSOLVED OXYGEN, mg/L	08	10	1N	(II)NESSELERZATION	22	10	1N
BOD, mg/L	08	20	1N	HARDNESS as CaCO ₃ , mg/L	37	00	1N
COD, mg/L	08	30	1N	TOTAL COLIFORM, MPN/100ml	33	33	3N
CHLORIDE, mg/L	17	20	1N	TOTAL DISSOLVED SOLIDS, mg/L	44	44	4N
(1)ARGENTOMETRIC	17	20	1N	FIXED DISSOLVED SOLIDS, mg/L	44	44	4N
(2)MERCURIMETRIC	17	20	1N	AMMONIUM NITROGEN, mg/L	07	65	5N
SULPHATE, mg/L	16	30	01N	(I)COLOURIMETRY	07	65	5N
(1)GRAVIMETRIC	16	30	02N	(II)DISTILLATION TITRATION	05	10	5N
(2)TURBIDIMETRIC	11	10	03N	BORON DISSOLVED, mg/L	05	10	5N
SODIUM, mg/L	11	10	03N	PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	20	10	01N	NITRITE, mg/L			
MAGENESIUM as CaCO ₃ , mg/L	12	10	03N	SUSPENDED SOLID, mg/L			
FECAL COLIFORM MPN/100ml	36	00	11N				
INSTANTANEOUS DISCHARGE, m ³	97	16	7N				

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE (DD/MM/YY) **1847**
2. DATE & TIME OF SAMPLE TAKEN **210317** **11:20AM**
3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm 50-100cm >100cm Flood
5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High
6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other
8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other
9. LOCATION DETAIL V/s of Town or Industrial area Dis of Town or Industrial area Pilgrim Center/ Bath Gali Abstraction For Water Supply

STATION : RIVER KHARROON AT DURG
UP STEAM NEAR DURG- RAIPUR
ROAD - BRIDGE

COMPLETED BY : N. K. PATEL
VERIFIED BY : U.K MANDAL
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	ACQFLAG	VALUE
TEMPERATURE °C	02101N		
pH	10302N	7.5	
CONDUCTIVITY µghos/cm	02041N		
ALKALINITY mg/l			
(1)ELECTROMETRIC	10101N		
(2)VISUAL TITRATION	10102N	0.8	0
NITROGEN(NH ₃ -N), mg/l	07105N		
DISSOLVED OXYGEN, mg/l	08101N	6.8	
BOD, mg/l	08201N		
COD, mg/l	08301N	2.8	5.6
CHLORIDE, mg/l			
(1)ARGENTOMETRIC	17201N	2.4	0
(2)MERCURIMETRIC	17201N		
SULPHATE, mg/l			
(1)GRAVIMETRIC	16301N		
(2)TURBIDIMETRIC	16302N		
SODIUM, mg/l	11101N		
CALCIUM as CaCO ₃ , mg/l	11101N		
MAGNESIUM as CaCO ₃ , mg/l	12103N		
FECAL COLIFORM MPN/100ml	36011N		
INSTANT ANEQUOUS DISCHARGE, m ³	97167N		

DETERMINAND	CODE	ACQFLAG	VALUE
TURBIDITY, JTU/NTU	02101N		
VELOCITY OF FLOW, m/sec			
(0)CURRENT METER	02201N		
(0)FLOATE	02202N		
(0)CHEMICAL	02203N		
TOTAL KJELDAHL NITROGEN, mg/l			
(0)TITRATION	07001N		
(0)NITROGENIZATION	07004N		
HARDNESS as CaCO ₃ , mg/l	22101N	9.8	0
TOTAL COLIFORM, MPN/100ml	37001N		
TOTAL DISSOLVED SOLIDS, mg/l	33333N	210	0
FIXED DISSOLVED SOLIDS, mg/l	44444N		
AMMONIUM NITROGEN, mg/l			
(0)COLOURIMETRY	07555N		
(0)DISTILLATION TITRATION	07551N		
BORON DISSOLVED, mg/l	05105N		
PHOSPHATE, mg/l			
NITRITE, mg/l			
SUSPENDED SOLID, mg/l		60	0

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE 3166
 2. DATE & TIME OF SAMPLE TAKEN (DDMMYY) 030317 11:30AM

3. WEATHER Cloudy Windy Clear Raining STATION: RIVER SHEONATH AT JHINJRI VILLAGE, DURG

4. APPROX DEPTH OF MAIN STREAM <50cm 50-100cm >100cm Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: AFTER CONFLUENCE OF SAMODA NALLA

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other COMPLETED BY: N. K. PATEL

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other VERIFIED BY: U.K. MANDAL

9. LOCATION DETAIL U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	WHO		AQCFLAG	VALUE	DETERMINAND	CODE	ARBITRARY		AQCFLAG	VALUE
		U/s of Town or Industrial Area	D/s of Town of Industrial Area					U/s of Town or Industrial Area	D/s of Town of Industrial Area		
TEMPERATURE, °C	0200	1N	25			TURBIDITY, JTU/NTU	0210	1N			
PH	1030	2N	8.1			VELOCITY OF FLOW, m/sec	0220	1N			
CONDUCTIVITY, µmhos/cm	0210	41N				(I)CURRENT METER	0220	2N			
ALKALINITY, mg/L	1010	1N				(II)FLOATE	0220	2N			
(I)ELECTOMETRIC	1010	1N				(III)CHEMICAL	0220	03N			
(2)VISUAL TITRATION	1010	2N	14	8	0	TOTAL KJELDAHL NITROGEN, mg/L	0700	01N			
NITROGEN(NH ₃ +NO ₂), mg/L	0710	5N				(I)TITRATION	0700	04N			
DISSOLVED OXYGEN, mg/L	0810	1N	5	2		(II)NESSELERIZATION	0700	01N			
BOD, mg/L	0820	1N	1	7	1	HARDNESS as CaCO ₃ , mg/L	3700	01N			
COD, mg/L	0830	1N	1	7	1	TOTAL DISSOLVED SOLIDS, mg/L	3330	33N			
CHLORIDE, mg/L	1720	1N	8	4	0	FIXED DISSOLVED SOLIDS, mg/L	4440	44N			
(I)ARGENTOMETRIC	1720	1N				AMMONIUM NITROGEN, mg/L	0750	55N			
(2)MERCURIMETRIC	1720	1N				(I)COLOURIMETRY	0750	51N			
SULPHATE, mg/L	1630	1N				(II)DISTILLATION TITRATION	0510	51N			
(I)GRAVIMETRIC	1630	2N				BORON DISSOLVED, mg/L	0510	51N			
(2)TURBIDIMETRIC	1110	03N				PHOSPHATE, mg/L					
SODIUM, mg/L	2010	1N				NITRITE, mg/L					
CALCIUM as CaCO ₃ , mg/L	1210	03N				SUSPENDED SOLID, mg/L	70	0			
MAGNESIUM as CaCO ₃ , mg/L	1210	03N									
FECAL COLIFORM MPN/100ml	360	1N									
INSTANTANEOUS DISCHARGE, m ³	971	67N									

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) **18/4/5**
 3. WEATHER **Cloudy** Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM <50cm 50-100cm >100cm Flood
 5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROCKMINT None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other
 9. LOCATION DETAIL U/s of Town of Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT DURG
 TYPE : NEAR W/S INTAKE WELL POINT
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILLAI

DETERMINAND	WHO				ARBITRARY			
	CODE	ACCFLAG	VALUE	CODE	ACCFLAG	VALUE		
TEMPERATURE, °C	02	01	1N	02	10	1N		
PH	11	03	2N	7	4			
CONDUCTIVITY, µghos/cm	02	04	1N					
ALKALINITY, mg/L								
(1) ELECTROTITRIC	11	01	1N					
(2) VISUAL TITRATION	11	01	2N	8	6	0		
NITROGEN(NH ₄ +NO ₂), mg/L	07	11	5N					
DISSOLVED OXYGEN, mg/L	08	11	1N	7	2			
BOD, mg/L	08	21	1N					
COD, mg/L	08	31	1N	1	9	2		
CHLORIDE, mg/L								
(1) ARGENTOMETRIC	11	72	1N	2	4	0		
(2) MERCURIMETRIC	11	72	1N					
SULPHATE, mg/L								
(1) GRAVIMETRIC	11	63	01	1N				
(2) TURBIDIMETRIC	11	63	02	1N				
SODIUM, mg/L	11	11	03	3N				
CALCIUM as CaCO ₃ , mg/L	20	11	03	3N				
MAGNESIUM as CaCO ₃ , mg/L	12	11	03	3N				
FECAL COLIFORM MPN/100ml	36	01	1N					
INSTANTANEOUS DISCHARGE, m ³	19	71	16	7	1	6		
TURBIDITY, JT/UNITU				02	11	01		
VELOCITY OF FLOW, m/sec				02	21	01		
(0) CURRENT METER				02	21	01		
(0) FLOATE				02	21	02		
(0) CHEMICAL				02	21	03		
TOTAL KJELDAHL NITROGEN, mg/L								
(0) TITRATION				07	01	1N		
(0) NITROGEN				07	01	4N		
HARDNESS as CaCO ₃ , mg/L				22	10	1N		
TOTAL DISSOLVED SOLIDS, mg/L				37	01	1N		
FIXED DISSOLVED SOLIDS, mg/L				33	33	3N		
AMMONIUM NITROGEN, mg/L				44	44	4N		
(0) COLOURIMETRY				07	55	5N		
(0) DISTILLATION TITRATION				07	55	1N		
BORON DISSOLVED, mg/L				05	10	5N		
PHOSPHATE, mg/L								
NITRITE, mg/L								
SUSPENDED SOLID, mg/L				40	0	0		

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GENWS

1. STATION CODE
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 3 1 6 4
 0 3 0 3 1 7 0 3 : 0 0 P M

STATION: NEHRU NAGAR TALAB
 BHILAI DIST. DURG

3. WEATHER
 4. APPROX DEPTH OF MAIN STREAM
 5. COLOUR & INTENSITY
 6. ODOUR
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
 8. HUMAN ACTIVITIES AROUND STATION
 9. LOCATION DETAIL

Clody Windy Clear Rainy
 Clear Turbid/Green Brown 1=light 2=Moderate 3=High TYPE TALAB WATER
 None Fishy H₂S Other
 None Fishery Other
 Cattle Wading Melon Farming Fishing Other AGENCY : R. O. C. E. C. B. BHILAI
 Dis of Town or Industrial Area Dis of Town or Industrial Area Pilgrim Center/ Bath Gali Abstraction For Water Supply

COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL

DETERMIND	CODE	ACQFLAG	VALUE	DETERMIND	CODE	ACQFLAG	VALUE
TEMPERATURE °C	021001N			TURBIDITY JTUNITU	2101N		
pH	10302N	7.2		VELOCITY OF FLOW, m/sec	2201N		
CONDUCTIVITY µhos/cm	021041N			(I)CURRENT METER	2202N		
ALKALINITY, mg/L				(II)FLOATE	2203N		
(I)ELECTROMETRIC	101101N			(III)CHEMICAL			
(2)VISUAL TITRATION	101102N	17.6	0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NH ₄ +NO ₂) mg/L	07105N			(I)TITRATION	7001N		
DISSOLVED OXYGEN, mg/L	08101N			(II)NESSELERIZATION	7004N		
BOD, mg/L	08201N			(III)TOTAL DISSOLVED SOLIDS, mg/L	7001N	132	0
COD, mg/L	08301N	17.1	3.6	TOTAL DISSOLVED SOLIDS, mg/L	3333N	310	0
(1)ARGENTOMETRIC	17201N	7.2	0	FIXED DISSOLVED SOLIDS, mg/L	4444N		
(2)MERCURIMETRIC	17201N			AMMONIUM NITROGEN, mg/L	7555N		
SULPHATE, mg/L				(I)COLOURIMETRY	7551N		
(1)GRAVIMETRIC	16301N			(II)DISTILLATION TITRATION	7551N		
(2)TURBIDIMETRIC	16302N			BORON DISSOLVED, mg/L	5105N		
SODIUM, mg/L	11103N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	20101N			NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	12103N			SUSPENDED SOLID mg/L	6000		
FECAL COLIFORM MPN/100ml	36011N						
INSTANTANEOUS DISCHARGE, m ³	971167N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE (DD/M/YY) **11107**
 2. DATE & TIME OF SAMPLE TAKEN **23/03/17 02:10 PM**
 3. WEATHER Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM <50cm 50-100cm >100cm Flood
 5. COLOUR & INTENSITY Clear Turbid Green Brown H₂S Other
 6. ODOUR None Fishy None Fishery Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY Cattle Wading Melon Farming Fishing Other AGENCY: R. O. C. E. C. B. BHILAI
 8. HUMAN ACTIVITIES AROUND STATION U/s of Town or Industrial Area D/s of Town or Industrial Area Pilgrim Center/ Bath Gah Abstraction For Water Supply
 9. LOCATION DETAIL
 STATION: RIVER SHEOMATH AT
 RAJNANDGAON
 TYPE: NEAR W/S INTAKE-WELL POINT
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL

DETERMINAND	CODE	ACQFLAG	VALUE	DETERMINAND	CODE	ACQFLAG	VALUE
TEMPERATURE °C	02101N			TURBIDITY JT/UNTU	02101N		
PH	10302N	7	5	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	02041N			(0)CURRENT METER	02201N		
ALKALINITY, mg/L				(0)FLOATE	02202N		
(1)ELECTOMETRIC	10101N			(0)CHEMICAL	02203N		
(2)VISUAL TITRATION	10102N			TOTAL KjELDAHL NITROGEN, mg/L			
NITROGEN(NH ₄ ⁺ +NO ₂ ⁻), mg/L	07105N			(0)TITRATION	07001N		
DISSOLVED OXYGEN, mg/L	08101N			(0)NITROGEN	07004N		
BOD, mg/L	08201N			HARDNESS as CaCO ₃ , mg/L	22101N	1	6
COD, mg/L	08301N	36	0	TOTAL DISSOLVED SOLIDS, mg/L	33303N	2	6
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	44444N		
(1)ARGENTOMETRIC	17201N			AMMONIUM NITROGEN, mg/L			
(2)MERCURIMETRIC	17201N			(0)COLOURIMETRY	07555N		
SULPHATE, mg/L	16301N			(0)DISTILLATION TITRATION	07551N		
(1)GRAVIMETRIC	16301N			BORON DISSOLVED, mg/L	05105N		
(2)TURBIDIMETRIC	16302N			PHOSPHATE, mg/L			
SODIUM, mg/L	11103N			NITRITE, mg/L			
CALCIUM as CaCO ₃ , mg/L	20101N			SUSPENDED SOLID, mg/L		5	0
MAGNESIUM as CaCO ₃ , mg/L	12103N						
FECAL COLIFORM MPN/100ml	36011N						
INSTANTANEOUS DISCHARGE, m ³ /d	97167N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE (DDMM/YY) **31617**
 2. DATE & TIME OF SAMPLE TAKEN **230317 12:30 PM**
 3. WEATHER Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=moderate 3=high
 6. ODOUR None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other
 9. LOCATION DETAIL Us of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER SHEONATH AT
 RAJNANDGAON
 TYPE: NEAR MOHAD VILLAGE DOWN STREAM
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K. MANDAL
 AGENCY: R. O. C. E. C. B. BHILLAI

DETERMINAND	WHO		ARBITRARY	
	CODE	ACQFLAG	CODE	ACQFLAG
TEMPERATURE, °C	020101N		21011N	
pH	103021N	7.5		
CONDUCTIVITY, µdhos/cm	02041N		22011N	
ALKALINITY, mg/L			22021N	
(1)ELECTROMETRIC	101101N		22031N	
(2)VISUAL TITRATION	101102N	124.0		
NITROGEN(NH ₃ +NO ₂), mg/L	071105N			
DISSOLVED OXYGEN, mg/L	0811011N	6.8		
BOD, mg/L	082011N			
COD, mg/L	083011N	29.4		
CHLORIDE, mg/L	172011N	38.0		
(1)ARGENTOMETRIC	172011N			
(2)MERCURIMETRIC	172011N			
SULPHATE, mg/L	163011N			
(1)GRAVIMETRIC	163011N			
(2)TURBIDIMETRIC	163021N			
SODIUM, mg/L	1111031N			
CALCIUM as CaCO ₃ , mg/L	2011011N			
MAGNESIUM as CaCO ₃ , mg/L	1211031N			
FECAL COLIFORM MPN/100ml	360111N			
INSTANTANEOUS DISCHARGE, m ³ /7167N	971167N			
TURBIDITY JT/UNTU			21011N	
VELOCITY OF FLOW, m/sec			22011N	
(0)CURRENT METER			22021N	
(0)FLOATE			22031N	
(0)CHEMICAL			22041N	
TOTAL KJELDAHL NITROGEN, mg/L			70011N	
(0)TITRATION			70021N	
(0)NITROGEN			70031N	
(0)NITROGEN			70041N	
HARDNESS as CaCO ₃ , mg/L			71011N	
TOTAL DISSOLVED SOLIDS, mg/L			33331N	
FIXED DISSOLVED SOLIDS, mg/L			44441N	
AMMONIUM NITROGEN, mg/L			75511N	
(0)COLOURIMETRY			75521N	
(0)DISTILLATION TITRATION			75531N	
BORON DISSOLVED, mg/L			51051N	
PHOSPHATE, mg/L				
NITRATE, mg/L				
SUSPENDED SOLID, mg/L			60.0	

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Patel

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GENS
MINDAT/ GLOWDAT

1. STATION CODE (DDMMYY) **3163**
 2. DATE & TIME OF SAMPLE TAKEN **280217 12:45 PM**
 3. WEATHER Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXMIT None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other
 9. LOCATION DETAIL Industrial Area Dis of Town of Industrial Area Pilgrim Center/ Bath Gali Abstraction For Water Supply

STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMIND	CODE	AQCFIAG	VALUE	DETERMIND	CODE	AQCFIAG	VALUE
TEMPERATURE °C	02001N			TURBIDITY JTUNITU	2101N		
pH	10302N	7.1		VELOCITY OF FLOW, m/sec	2201N		
CONDUCTIVITY µghos/cm	02041N			(0)CURRENT METER	2202N		
ALKALINITY mg/L				(0)FLOATE	2203N		
(1)ELECTOMETRIC	10101N			(0)CHEMICAL	2203N		
(2)VISUAL TITRATION	10102N	136	0	TOTAL KJELDAHL NITROGEN, mg/L	7001N		
NITROGEN(NH ₃ +NO ₂), mg/L	07105N			(0)TITRATION	7001N		
DISSOLVED OXYGEN, mg/L	08101N			(0)NITROGEN	7004N		
BOD, mg/L	08201N			HARDNESS as CaCO ₃ , mg/L	2101N		
COD, mg/L	08301N	127	4	TOTAL COLIFORM, MPN/100ml	7001N		
CHLORIDE, mg/L	17201N	58	0	TOTAL DISSOLVED SOLIDS, mg/L	3333N	340	0
(1)ARGENTOMETRIC	17201N			FIXED DISSOLVED SOLIDS, mg/L	4444N		
(2)MERCURIMETRIC	17201N			AMMONIUM NITROGEN, mg/L	4444N		
SULPHATE, mg/L	16301N			(0)COLOURIMETRY	7555N		
(1)GRAVIMETRIC	16301N			(0)DISTILLATION TITRATION	7551N		
(2)TURBIDIMETRIC	16302N			BORON DISSOLVED, mg/L	5105N		
SODIUM, mg/L	11103N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	20101N			NITRITE, mg/L			
MAGENESIUM as CaCO ₃ , mg/L	12103N			SUSPENDED SOLID, mg/L	9000		
FECAL COLIFORM MPN/100ml	36011N						
INSTANTANEOUS DISCHARGE, m ³	97167N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 1 0 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 0 3 1 7

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown vi=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION: River Mahanadi at Kharod
 TYPE: RIVER
 COMPLETED BY: R.K. Ahirwar (Chemist)
 VERIFIED BY: Dr. Anita Yadav (Scientist)
 AGENCY: R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2	0 0 1 N	3 0 . 0	INSTANTANEOUS DISCHARGE, m ³ /s	9 7	1 6 7 N	
PH	1 0	3 0 2 N	8 . 5	TURBIDITY, JTU/NTU	0 2	1 0 1 N	1 4 . 0
CONDUCTIVITY, µmhos/cm	0 2	0 4 1 N	1 8 0 . 0	VELOCITY OF FLOW, m/sec			
ALKALINITY, mg/L	1 0	1 0 1 N		(i) CURRENT METER	0 2	2 0 1 N	
(1) ELECTROMETRIC	1 0	1 0 2 N	1 3 2 . 0	(ii) FLOAT	0 2	2 0 2 N	
(2) VISUAL TITRATION	0 7	1 0 5 N	1 . 7	(iii) CHEMICAL	0 2	2 0 3 N	
NITROGEN(NO ₃ + NO ₂), mg/L	0 8	1 0 1 N	7 . 1	TOTAL KJELDAHL NITROGEN, mg/L			
DISSOLVED OXYGEN, mg/L	0 8	2 0 1 N	1 . 2	(i) TITRATION	0 7	0 0 1 N	
BOD, mg/L	0 8	3 0 1 N	2 0 . 0	(ii) NESSELERIZATION	0 7	0 0 4	
COD, mg/L	0 8	3 0 1 N	2 0 . 0	HARDNESS as CaCO ₃ mg/L	2 2	1 0 1 N	4 0 . 0
CHLORIDE, mg/L				TOTAL COLIFORM, MPN/100ml	3 7	0 0 1 N	2 6 . 0
(1) ARGENTOMETRIC	1 7	2 0 1 N	2 4 . 0	TOTAL DISSOLVED SOLIDS, mg/L	3 3	3 3 3 N	9 8 . 0
(2) MERCURIMETRIC	1 7	2 0 1 N		FIXED DISSOLVED SOLIDS, mg/L	4 4	4 4 4 N	7 0 . 0
SULPHATE, mg/L				AMMONIA NITROGEN, mg/L			
(1) GRAVIMETRIC	1 6	3 0 1 N		(i) COLOURIMETRY	0 7	5 5 5 N	1 . 0
(2) TURBIDIMETRIC	1 6	3 0 2 N	2 1 . 0	(ii) DISTILLATION TITRATION	0 7	5 5 1 N	
SODIUM, mg/L	1 1	1 0 3 N		BORON DISSOLVED, mg/L	0 5	1 0 5 N	
CALCIUM as CaCO ₃ , mg/L	2 0	1 0 1 N	9 . 6	PHOSPHATE, mg/L			1 . 2
MAGNESIUM as CaCO ₃ , mg/L	1 2	1 0 3 N	3 . 9	NITRITE, mg/L			0 . 8
FECAL COLIFORM MPN/100mg/L	3 6	0 1 1 N		Fluoride, Mg/L			

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SCIENTIST

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CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 1 0 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 3 0 3 1 7 1 4 0 0

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY

Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR

None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL

U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Hasdeo at Champa
 TYPE : 'RIVER'
 COMPLETED BY : R.K. Ahirwar (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N 3 0	0	INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
pH	1 0 3 0	2 N 8 5		TURBIDITY, JTU/NTU	0 2 1 0 1 N 2 4		0
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 1 0	0	VELOCITY OF FLOW, m/sec			
ALKALINITY, mg/L				(i) CURRENT METER	0 2 2 0 1 N		
(1) ELECTROMETRIC	1 0 1 0	1 N		(ii) FLOAT	0 2 2 0 2 N		
(2) VISUAL TITRATION	1 0 1 0	2 N 1 2 0	0	(iii) CHEMICAL	0 2 2 0 3 N		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 2 0	0	TOTAL KJELDAHL NITROGEN, mg/L			
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7 4		(i) TITRATION	0 7 0 0 1 N		
BOD, mg/L	0 8 2 0	1 N 1 2	0	(ii) NESSELERIZATION	0 7 0 0 4		
COD, mg/L	0 8 3 0	1 N 2 4	0	HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 7 0		0
CHLORIDE, mg/L				TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 3 4		0
(1) ARGENTOMETRIC	1 7 2 0	1 N 2 0	0	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 0 7		0
(2) MERCURIMETRIC	1 7 2 0	1 N		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 8 4		0
SULPHATE, mg/L				AMMONIA NITROGEN, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N		(i) COLOURIMETRY	0 7 5 5 5 N 1 2		
(2) TURBIDIMETRIC	1 6 3 0	2 N 2 4	0	(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
SODIUM, mg/L	1 1 1 0	3 N		BORON DISSOLVED, mg/L	0 5 1 0 5 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 9	2	PHOSPHATE, mg/L			1 3
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 5 3 6		NITRITE, mg/L			0 9
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N		Fluoride, Mg/L			

CHEMIST

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 4 6 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 3 0 3 1 7

1 8 0 0

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY

Clear Turbid Green Brown √1=Light 2=Moderate 3=High

6. ODOUR

√None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing √Other

9. LOCATION DETAIL

√U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Mahanadi at Balpur

TYPE : RIVER

COMPLETED BY : R.K. Ahirwar (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 3 0	0	0
pH	1 0 3 0 2 N 8 . 5	0	5
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 6 8 . 0	0	0
ALKALINITY, mg/L	1 0 1 0 1 N	0	
(1) ELECTROMETRIC	1 0 1 0 2 N 1 2 0 . 0	0	0
(2) VISUAL TITRATION	0 7 1 0 5 N 2 . 0	0	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 8 1 0 1 N 6 . 8	0	8
DISSOLVED OXYGEN, mg/L	0 8 2 0 1 N 1 . 4	0	4
BOD, mg/L	0 8 3 0 1 N 2 8 . 0	0	0
COD, mg/L			
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 2 . 0	0	0
(2) MERCURIMETRIC	1 7 2 0 1 N	0	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N	0	
(2) TURBIDIMETRIC	1 6 3 0 2 N 3 4 . 0	0	0
SODIUM, mg/L	1 1 1 0 3 N	0	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 0 . 8	0	8
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5 . 8 5	0	5
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N	0	

ARBITRARY CODE

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N	0	
TURBIDITY, JTU/NTU	0 2 1 0 1 N 3 2 . 0	0	0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N	0	
(ii) FLOAT	0 2 2 0 2 N	0	
(iii) CHEMICAL	0 2 2 0 3 N	0	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N	0	
(ii) NITROGEN	0 7 0 0 4	0	
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 7 6 . 0	0	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 5 0 . 0	0	0
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 1 8 . 0	0	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 8 2 . 0	0	0
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1 . 2	0	2
(ii) DISTILLATION TITRATION	0 7 5 5 1 N	0	
BORON DISSOLVED, mg/L	0 5 1 0 5 N	0	
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			


CHEMIST


SCIENTIST


CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDATI/GLOWDAT

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY) 3 1 6 3
2 7 0 4 1 7 1 2 : 1 5 P M.

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm 50-100cm >100cm Flood

5. COLOUR & INTENSITY Clear Turbid/Green Brown 1=light 2=Moderate 3=High

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL

U/s of Town or industrial Area	D/s of Town of Industrial Area	Pilgrim Center/ Bath Gath	Abstraction For Water Supply
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STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD

TYPE: HITKASA TAILING DAM, RESERVIIR

COMPLETED BY: N. K. PATEL

VERIFIED BY: U.K. MANDAL

AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	WHO CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	2 1 0 1 N		
pH	1 0 3 0 2 N	7 3		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 8 6 0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N			(ii)NESSELERIZATION	7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N		
COD, mg/L	0 8 3 0 1 N	1 3 3 2 8		TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 3 N	3 9 0 0	
(1)ARGENTOMETRIC	1 7 2 0 1 N	9 8 0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N			NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N			SUSPENDED SOLI mg/L		9 0 0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 1 0 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 5 0 4 1 7 1 4 : 3 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town or Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER SHEONATH AT
 RAJNANDGAON
 TYPE: NEAR W/S INTAKE-WELL POINT
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	QOCFLAG	VALUE	DETERMINAND	WHO CODE	QOCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7.5		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6.3		(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	86	0
COD, mg/L	0 8 3 0 1 N			TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	190	0
(1)ARGENTOMETRIC	1 7 2 0 1 N		6	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIUM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N			NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N			SUSPENDED SOLID mg/L		40	0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 3 1 6 7 / 2 5 0 4 1 7 1 1 : 3 0 A M

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM < 50cm. 50-100cm. > 100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE : NEAR MOHAD VILLAGE DOWN STEAM

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL U/s of Town or Industrial Area Dis of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT RAJNANDGAON

COMPLETED BY : N. K. PATEL

VERIFIED BY : U.K. MANDAL

AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO	CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY	AQCFLAG	VALUE
TEMPERATURE, °C		0 2	0 1 N		TURBIDITY, JT/NTU	2	1 0 1 N	
pH		1 0	3 0 2 N	7.4	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm		0 2	0 4 1 N		(i) CURRENT METER	2	2 0 1 N	
ALKALINITY, mg/L					(ii) FLOATE	2	2 0 2 N	
(1) ELECTOMETRIC		1 0	1 0 1 N		(iii) CHEMICAL	2	2 0 3 N	
(2) VISUAL TITRATION		1 0	1 0 2 N	8 6.0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L		0 7	1 0 5 N		(i) TITRATION	7	0 0 1 N	
DISSOLVED OXYGEN, mg/L		0 8	1 0 1 N	7.0	(ii) NESSELERIZATION	7	0 0 4 N	
BOD, mg/l		0 8	2 0 1 N		HARDNESS as CaCO ₃ , mg/L	2	1 0 1 N	9 6.0
COD, mg/L		0 8	3 0 1 N	2 9.0 4	TOTAL COLIFORM, MPN/100ml	7	0 0 1 N	
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/l	3	3 3 N	2 1 0.0
(1) ARGENTOMETRIC		1 7	2 0 1 N	3 6.0	FIXED DISSOLVED SOLIDS, mg/L	4	4 4 N	
(2) MERCURIMETRIC		1 7	2 0 1 N		AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L					(i) COLOURIMETRY	7	5 5 N	
(1) GRAVIMETRIC		1 6	3 0 1 N		(ii) DISTILLATION TITRATION	7	5 1 N	
(2) TURBIDIMETRIC		1 6	3 0 2 N		BORON DISSOLVED, mg/L	5	1 0 5 N	
SODIUM, mg/L		1 1	1 0 3 N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L		2 0	1 0 1 N		NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L		1 2	1 0 3 N		SUSPENDED SOLI mg/L			6 0.0
FECAL COLIFORM MPN/100ml		3 6	0 1 1 N					
INSTANTANEOUS DISCHARGE, m ³		9 7	1 6 7 N					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 4 1 7 1 1 : 5 0 A.M.

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm 50-100cm >100cm Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: UP STEAM NEAR DURG- RAIPUR ROAD - BRIDGE

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or Industrial area D/s of Town or Industrial area Pilgrim Center/ Bath Gath Abstraction For: Water Supply

COMPLETED BY: N. K. PATEL
VERIFIED BY: U.K. MANDAL
AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7	5		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N 1 2 0	0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7	1		(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N 1 1 4	0	
COD, mg/L	0 8 3 0 1 N 2 9	4		TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 2 1 0	0	
(1)ARGENTOMETRIC	1 7 2 0 1 N 3 6	0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N			NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N			SUSPENDED SOLID,mg/L		5 0	0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDATI/GLOWDAT

1. STATION CODE: 1 8 4 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY): 1 3 0 4 1 7 1 2 : 1 0 P M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial Area Dis of Town of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER KHAROON AT DURG
TYPE: AFTER KHAPRI NALLA
COMPLETED BY: N. K. PATEL
VERIFIED BY: U.K. MANDAL
AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 0 1 1 N		0 2 1 0 1 1 N	
pH	1 0 3 0 2 1 N	7 . 4		
CONDUCTIVITY, µghos/cm	0 2 0 4 1 1 N		0 2 2 0 1 1 N	
ALKALINITY, mg/L			0 2 2 0 2 1 N	
(1)ELECTOMETRIC	1 0 1 0 1 1 N		0 2 2 0 3 1 N	
(2)VISUAL TITRATION	1 0 1 0 2 1 N	1 2 4 . 0		
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 1 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 1 N	7 . 2		
BOD, mg/l	0 8 2 0 1 1 N		2 2 1 0 1 1 N	1 2 0 . 0
COD, mg/L	0 8 3 0 1 1 N	2 9 . 4	3 7 0 0 1 1 N	
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 1 N	3 8 . 0	3 3 3 3 1 1 N	2 2 0 . 0
(2)MERCURIMETRIC	1 7 2 0 1 1 N		4 4 4 4 1 1 N	
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 1 N			
(2)TURBIDIMETRIC	1 6 3 0 2 1 N			
SODIUM, mg/L	1 1 1 0 3 1 N			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 1 N			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 1 N			
FECAL COLIFORM MPN/100ml	3 6 0 1 1 1 N			5 0 . 0
INSTANTANEOUS DISCHARGE, m ³	9 1 7 1 6 7 N			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE 3 1 6 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 1 0 4 1 7 1 1 1 4 0 A M

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other

COMPLETED BY : N. K. PATEL
VERIFIED BY : U.K.MANDAL

STATION: RIVER SHEONATH AT
JHINJHRI VILLAGE, DURG
TYPE: AFTER CONFERENCE OF
SAMODANALYA

AGENCY : R. O. C. E. C. B. BHILAI

9. LOCATION DETAIL

<input type="checkbox"/> U/s of Town or Industrial Area	<input type="checkbox"/> D/s of Town of Industrial Area	<input type="checkbox"/> Abstraction For Water Supply
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DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND	ARBITRARY		VALUE	
	CODE	CODE	CODE	CODE	VALUE	VALUE		CODE	CODE	VALUE	VALUE
TEMPERATURE, °C	0 2	0 1	N	2 5			TURBIDITY, JT/UNTU	0 2	1 0	1 N	
pH	1 0	3 0	2 N	7 9			VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, µghos/cm	0 2	0 4	1 N				(i) CURRENT METER	0 2	2 0	1 N	
ALKALINITY, mg/L							(ii) FLOATE	0 2	2 0	2 N	
(1) ELECTOMETRIC	1 0	1 0	1 N				(iii) CHEMICAL	0 2	2 0	3 N	
(2) VISUAL TITRATION	1 0	1 0	2 N	1 8	6 0		TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN (NO ₃ +NO ₂), mg/L	0 7	1 0	5 N				(i) TITRATION	0 7	0 0	1 N	
DISSOLVED OXYGEN, mg/L	0 8	1 0	1 N	6 0			(ii) NESSELERIZATION	0 7	0 0	4 N	
BOD, mg/l	0 8	2 0	1 N				HARDNESS as CaCO ₃ , mg/L	2 2	1 0	1 N	
COD, mg/L	0 8	3 0	1 N	1 3	3 2 8		TOTAL COLIFORM, MPN/100ml	3 7	0 0	1 N	
CHLORIDE, mg/L							TOTAL DISSOLVED SOLIDS, mg/L	3 3	3 3	3 N	2 2 0 0
(1) ARGENTOMETRIC	1 7	2 0	1 N	9 8	0		FIXED DISSOLVED SOLIDS, mg/L	4 4	4 4	4 N	
(2) MERCURIMETRIC	1 7	2 0	1 N				AMMONIUM NITROGEN, mg/L				
SULPHATE, mg/L							(i) COLOURIMETRY	0 7	5 5	5 N	
(1) GRAVIMETRIC	1 6	3 0	1 N				(ii) DISTILLATION TITRATION	0 7	5 5	1 N	
(2) TURBIDIMETRIC	1 6	3 0	2 N				BORON DISSOLVED, mg/L	0 5	1 0	5 N	
SODIUM, mg/L	1 1	1 0	3 N				PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	2 0	1 0	1 N				NITRITE mg/L				
MAGNESIUM as CaCO ₃ , mg/L	1 2	1 0	3 N				SUSPENDED SOLID mg/L				9 0 0
FECAL COLIFORM MPN/100ml	3 6	0 1	1 N								
INSTANTANEOUS DISCHARGE, m ³	9 7	1 6	7 N								

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GELMS
MINDAT/ GLOWDAT

1. STATION CODE: 1 8 4 5
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 1 0 4 1 7 1 0 : 5 0 A.M.
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Station: RIVER SHEONATH AT DURG
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High Type: NEAR W/S INTAKE WELL POINT
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town or Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K. MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	WHO CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N		TURBIDITY, JT/NTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N	7.4	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N		(i) CURRENT METER	0 2 2 0	1 N	
ALKALINITY, mg/L				(ii) FLOATE	0 2 2 0	2 N	
(1) ELECTOMETRIC	1 0 1 0	1 N		(iii) CHEMICAL	0 2 2 0	3 N	
(2) VISUAL TITRATION	1 0 1 0	2 N	1 0 4.0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(i) TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7.0	(ii) NESSELERIZATION	0 7 0 0	4 N	
BOD, mg/l	0 8 2 0	1 N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	98.0
COD, mg/L	0 8 3 0	1 N	28.56	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	210.0
(1) ARGENTOMETRIC	1 7 2 0	1 N	36.0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(2) MERCURIMETRIC	1 7 2 0	1 N		AMMONIUM NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5	5 N	
(1) GRAVIMETRIC	1 6 3 0	1 N		(ii) DISTILATION TITRATION	0 7 5 5	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N	
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N		NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N		SUSPENDED SOLID, mg/L			40.0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N					

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE: 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 1 0 4 1 7 1 5 : 1 0 P M

3. WEATHER: Clody Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: \ Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE TALAB WATER

6. ODOUR: \ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DE IAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: NEHRU NAGAR TALAB
BHILAI DIST. DURG

COMPLETED BY: N. K. PATEL

VERIFIED BY: U.K. MANDAL

AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 0 1 N		TURBIDITY, JT/UNTU	2 1 0 1 N
pH	1 0 3 0 2 N	7 8	VELOCITY OF FLOW, m/sec	
CONDUCTIVITY, µhos/cm	0 2 0 4 1 N		(i)CURRENT METER	2 2 0 1 N
ALKALINITY, mg/L			(ii)FLOATE	2 2 0 2 N
(1)ELECTOMETRIC	1 0 1 0 1 N		(iii)CHEMICAL	2 2 0 3 N
(2)VISUAL TITRATION	1 0 1 0 2 N	1 8 6 0	TOTAL KJELDAHL NITROGEN, mg/L	
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N		(i)TITRATION	7 0 0 1 N
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N		(ii)NESSELERIZATION	7 0 0 4 N
BOD, mg/l	0 8 2 0 1 N		HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N 1 4 6 0
COD, mg/L	0 8 3 0 1 N	1 6 4 5 6	TOTAL COLIFORM, MPN/100ml	7 0 0 1 N
CHLORIDE, mg/L			FIXED DISSOLVED SOLIDS, mg/l	3 3 3 N 3 4 0 0
(1)ARGENTOMETRIC	1 7 2 0 1 N	9 2 0	AMMONIAM NITROGEN, mg/L	4 4 4 N
(2)MERCURIMETRIC	1 7 2 0 1 N		(i)COLOURIMETRY	7 5 5 N
SULPHATE, mg/L			(ii)DISTILLATION TITRATION	7 5 5 1 N
(1)GRAVIMETRIC	1 6 3 0 1 N		BORON DISSOLVED, mg/L	5 1 0 5 N
(2)TURBIDIMETRIC	1 6 3 0 2 N		PHOSPHATE, mg/L	
SODIUM, mg/L	1 1 1 0 3 N		NITRITE mg/L	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N		SUSPENDED SOLI, mg/L	7 0 0
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N			
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N			

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 3 0 0 5 1 7 1 2 : 2 0 P M
 3. WEATHER
 Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY
 Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: HITKASA TAILING DAM, RESERVOIR
 6. ODOUR
 None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
 None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION
 Cattle Wading Melon Farming Fishing Other AGENCY: R. O. C. E. C. B. BHILAI
 9. LOCATION DETAIL
 U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: DALLI RAJHARA IRON ORE
MINES, DALLI RAJHARA, DIST.
BALOD

COMPLETED BY: N. K. PATEL

VERIFIED BY: U.K.MANDAL

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	2 1 0 1 N		
pH	1 0 3 0 2 N 7 . 6			VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N 1 2 7 . 0			TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 . 3			(ii)NESSELERIZATION	7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N 1 3 6 . 0		
COD, mg/L	0 8 3 0 1 N 1 2 7 . 0			TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 3 N 3 4 0 . 0		
(1)ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILATION TITRATION	7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 4 . 0			NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 0 . 2 4			SUSPENDED SOLI, mg/L		9 0 . 0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 1 0 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY): 2 6 0 5 1 7 1 4 : 1 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of industrial Area D/s of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT
RAJNANDGAON

TYPE : NEAR W/S INTAKE-WELL POINT
COMPLETED BY : N. K. PATEL

VERIFIED BY : U.K.MANDAL

AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7	4	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	9 8	0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7	2	(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	8 4	0
COD, mg/L	0 8 3 0 1 N	1 9	6	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L		2 4	0	FIXED DISSOLVED SOLIDS, mg/L	3 3 3 3 N	2 9 0	0
(1)ARGENTOMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L	4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			(i)COLOURIMETRY	0 7 5 5 5 N		
SULPHATE, mg/L				(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			PHOSPHATE, mg/L			
SODIUM, mg/L	1 1 1 0 3 N			NITRITE mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	1 6	0	SUSPENDED SOLID mg/L		4 0	0
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 0	7 3				
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE 3 1 6 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 6 0 5 1 7 1 1 : 2 0 A M
 3. WEATHER Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM < 50cm. 50-100cm. > 100cm. Flood
 5. COLOUR & INTENSITY Clear Turbid/Green Brown 1=light 2=Moderate 3=High TYPE : NEAR MOHAD VILLAGE DOWN STEAM
 6. ODOUR None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other AGENCY : R. O. C. E. C. B. BHILAI
 9. LOCATION DETAIL U/s of Town or Industrial Area D/s of Town of Industrial Area Abstraction For Water Supply
 STATION : RIVER SHEONATH AT
 RAJNANDGAON
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JTU/NTU	2 1 0 1 N		
pH	1 0 3 0 2 N 7 5			VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N 9 8 0			TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 4			(ii)NESSELERIZATION	7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N 8 4 0		
COD, mg/L	0 8 3 0 1 N 2 8 5 6			TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 3 N 3 2 0 0		
(1)ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	5 1 0 5 N		
SODIUM, mg/l	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 6 0			NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 0 7 3			SUSPENDED SOLI mg/L	4 0 0		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOW/DAT

1. STATION CODE: 1 8 4 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 7 0 5 1 7 1 1 : 0 5 A M
 3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or industrial area D/s of Town or industrial area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER KHAROON AT DURG
 TYPE: UP STEAM NEAR DURG- RAIPUR ROAD - BRIDGE

COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K. MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 . 6			VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N 1 1 8 . 0			TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 . 8			(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N 1 1 6 . 0		
COD, mg/L	0 8 3 0 1 N 2 4 . 9			TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/l		3 4 . 0		TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 3 1 0 . 0		
(1)ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 8 . 4			NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 7 . 0 7			SUSPENDED SOLID mg/L		3 0 . 0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY): 1 7 0 5 1 7 1 2 2 0 P M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm 50-100cm >100cm Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION OF TAIL: U/s of Town or D/s of Town of Pilgrim Center/ Abstraction For
Industrial Area Industrial Area Bath Gath Water Supply

STATION: RIVER KHAROON AT DURG
TYPE: AFTER KHAPRI NALLA
COMPLETED BY: N. K. PATEL
VERIFIED BY: U.K. MANDAL
AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	TEMPERATURE, °C	pH	CONDUCTIVITY, µghos/cm	ALKALINITY, mg/L	(1)ELECTOMETRIC	(2)VISUAL TITRATION	NITROGEN(NO ₃ +NO ₂), mg/L	DISSOLVED OXYGEN, mg/L	BOD, mg/l	COD, mg/L	CHLORIDE, mg/L	(1)ARGENTOMETRIC	(2)MERCURIMETRIC	SULPHATE, mg/L	(1)GRAVIMETRIC	(2)TURBIDIMETRIC	SODIUM, mg/L	CALCIUM as CaCO ₃ , mg/L	MAGENESIUM as CaCO ₃ , mg/L	FECAL COLIFORM MPN/100ml	INSTANTANEOUS DISCHARGE, m ³	ARBITRARY	
																						CODE	AQCFLAG
	0 2 0 0 1 N	1 0 3 0 2 N	7 5																			0 2 1 0 1 N	
																						0 2 2 0 1 N	
																						0 2 2 0 2 N	
																						0 2 2 0 3 N	
																						0 7 0 0 1 N	
																						0 7 0 0 4 N	
																						2 2 1 0 1 N	2 0 0
																						3 7 0 0 1 N	
																						3 3 3 3 N	2 9 0 0
																						4 4 4 4 N	
																						0 7 5 5 N	
																						0 7 5 5 N	
																						0 5 1 0 5 N	
																						4 0 0	0

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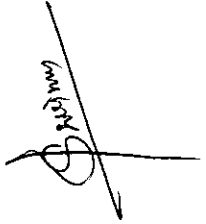
MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 6
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY): 2 3 0 5 1 7 1 1 1 0 A M
 3. WEATHER: Cloudy \ Windy \ Clear \ Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. \ 50-100cm. \ >100cm. \ Flood
 5. COLOUR & INTENSITY: Clear \ Turbid \ Green \ Brown \ 1=light \ 2=Moderate \ 3=High
 6. ODOUR: None \ Fishy \ H₂S \ Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None \ Fishery \ Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading \ Melon Farming \ Fising \ Other
 STATION: RIVER SHEONATH
 JHINJHRI VILLAGE, DURG
 TYPE: AFTER CONFLUENCE OF
 SAVKODANALLA
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K. MANDAL

9. LOCATION DETAIL: U/s of Town or industrial Area \ D/s of Town of industrial Area \ Pilgrim Center/ Bath Gath \ Abstraction For Water Supply

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7 . 9 2		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 8 4 . 0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	5 . 2		(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	4 1 2 . 0	
COD, mg/L	0 8 3 0 1 N	1 4 2 . 8		TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L		1 3 4 . 0		TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	3 5 0 . 0	
(1)ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	5 7 . 6		NITRITE, mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	6 5 . 3 6		SUSPENDED SOLID mg/L		8 0 . 0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						



MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE 1 8 4 5
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 6 0 5 1 7 1 0 : 5 5 A.M.

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood STATION : RIVER SHEONATH AT DURG

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE : NEAR W/S INTAKE WELL POINT
6. ODOUR None Fishy H₂S Other COMPLETED BY : N. K. PATEL

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other VERIFIED BY : U.K. MANDAL

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other AGENCY : R. O. C. E. C. B. BHILAI

9. LOCATION DETAIL U/s of Town or Industrial Area Dis of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

DETERMINAND	WHO CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N	
pH	1 0 3 0	2 N 7	4
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N	
ALKALINITY, mg/L	1 0 1 0	1 N	
(1)ELECTOMETRIC	1 0 1 0	2 N 9 8	0
(2)VISUAL TITRATION	0 7 1 0	5 N	
NITROGEN(NO ₃ +NO ₂), mg/L	0 8 1 0	1 N 7 4	
DISSOLVED OXYGEN, mg/L	0 8 2 0	1 N	
BOD, mg/l	0 8 3 0	1 N 2 8 5 6	
COD, mg/L		2 8 0	
CHLORIDE, mg/L	1 7 2 0	1 N	
(1)ARGENTOMETRIC	1 7 2 0	1 N	
(2)MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L	1 6 3 0	1 N	
(1)GRAVIMETRIC	1 6 3 0	2 N	
(2)TURBIDIMETRIC	1 1 1 0	3 N	
SODIUM, mg/L	2 0 1 0	1 N 1 6 0	0
CALCIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 1 0 7 3	
MAGENESIUM as CaCO ₃ , mg/L	3 6 0 1	1 N	
FECAL COLIFORM MPN/100ml	9 7 1 6	7 N	
INSTANTANEOUS DISCHARGE, m ³			

DETERMINAND	WHO CODE	AQCFLAG	VALUE
TURBIDITY, JT/NTU	0 2 1 0	1 N	
VELOCITY OF FLOW, m/sec	0 2 2 0	1 N	
(i)CURRENT METER	0 2 2 0	2 N	
(ii)FLOATE	0 2 2 0	3 N	
(iii)CHEMICAL	0 2 2 0	3 N	
TOTAL KJELDAHL NITROGEN, mg/L	0 7 0 0	1 N	
(i)TITRATION	0 7 0 0	4 N	
(ii)NESSELERIZATION	2 2 1 0	1 N 8 4 0	
HARDNESS as CaCO ₃ , mg/L	3 7 0 0	1 N	
TOTAL COLIFORM, MPN/100ml	3 3 3 3	3 N 3 2 0 0	
TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
FIXED DISSOLVED SOLIDS, mg/L	0 7 5 5	1 N	
AMMONIAM NITROGEN, mg/L	0 5 1 0	5 N	
(i)COLOURIMETRY	0 7 5 5	5 N	
(ii)DISTILLATION TITRATION	0 5 1 0	5 N	
BORON DISSOLVED, mg/L			
PHOSPHATE, mg/L			
NITRITE mg/L			
SUSPENDED SOLID mg/L			4 0 0

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 6 0 5 1 7 1 5 0 0 P M

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE TALAB WATER

6. ODOUR None Fishy H₂S Other COMPLETED BY : N. K. PATEL

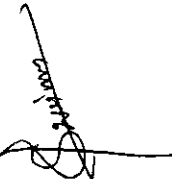
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other VERIFIED BY : U.K. MANDAL

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other AGENCY : R. O. C. E. C. B. BHILAI

9. LOCATION DETAIL U/s of Town or industrial Area Dis of Town of industrial Area Pilgrim Center Bath Gath Water Supply Abstraction For

STATION : NEHRU NAGAR TALAB
BHILAI DIST. DURG

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	2 1 0 1 N		
pH	1 0 3 0 2 N	7 . 6		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 7 2 . 0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7 . 2		(ii)NESSELERIZATION	7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N	1 3 2 . 0	
COD, mg/L	0 8 3 0 1 N	1 8 6 . 2		TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
CHLORIDE, mg/L		7 4 . 0		TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 3 N	3 5 0 . 0	
(1)ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	3 4 . 0		NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1 . 2 1		SUSPENDED SOLI mg/L		8 0 . 0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						




MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE 3 1 6 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 5 0 6 1 7 1 1 0 0 A M
 3. WEATHER Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR None Fishy H₂S Other Fishery Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Melon Farming Fising Other
 8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Pilgrim Center/ Bath Gath Abstraction For Water Supply
 9. LOCATION DETAIL U/s of Town or industrial Area D/s of Town of industrial Area

STATION: RIVER SHEONATH AT
 RAJNANDGAON
 TYPE: NEAR MOHAD VILLAGE DOWN STEAM
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K. MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N		
pH	1 0 3 0 2 N	7.5	
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		
ALKALINITY, mg/L	1 0 1 0 1 N		
(1)ELECTOMETRIC	1 0 1 0 2 N	1 2.0	
(2)VISUAL TITRATION	0 7 1 0 5 N		
NITROGEN(NO ₃ +NO ₂), mg/L	0 8 1 0 1 N	6.8	
DISSOLVED OXYGEN, mg/L	0 8 2 0 1 N		
BOD, mg/l	0 8 3 0 1 N	2 8.5 6	
COD, mg/L			
CHLORIDE, mg/L	1 7 2 0 1 N	3 2.0	
(1)ARGENTOMETRIC	1 7 2 0 1 N		
(2)MERCURIMETRIC			
SULPHATE, mg/L	1 6 3 0 1 N		
(1)GRAVIMETRIC	1 6 3 0 2 N		
(2)TURBIDIMETRIC	1 1 1 0 3 N		
SODIUM, mg/L	2 0 1 0 1 N	2 0.0	
CALCIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	7.8 0	
MAGENESIUM as CaCO ₃ , mg/L	3 6 0 1 1 N		
FECAL COLIFORM MPN/100ml	9 1 7 1 6 7 N		
INSTANTANEOUS DISCHARGE, m ³			

DETERMINAND	WHO CODE	AQCFLAG	VALUE
TURBIDITY, JT/UNTU	2 1 0 1 N		
VELOCITY OF FLOW, m/sec	2 2 0 1 N		
(i)CURRENT METER	2 2 0 2 N		
(ii)FLOATE	2 2 0 3 N		
(iii)CHEMICAL			
TOTAL KJELDAHL NITROGEN, mg/L	7 0 0 1 N		
(i)TITRATION	7 0 0 4 N		
(ii)NESSELERIZATION	2 1 0 1 N	8 2.0	
HARDNESS as CaCO ₃ , mg/L	7 0 0 1 N		
TOTAL COLIFORM, MPN/100ml	3 3 3 3 N	1 9 0.0	
TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4 N		
FIXED DISSOLVED SOLIDS, mg/L			
AMMONIUM NITROGEN, mg/L	7 5 5 5 N		
(i)COLOURIMETRY	7 5 5 1 N		
(ii)DISTILLATION TITRATION	5 1 0 5 N		
BORON DISSOLVED, mg/L			
PHOSPHATE, mg/L			
NITRITE mg/L			5 0.0
SUSPENDED SOLID mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 5
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 5 0 6 1 7 1 0 : 4 0 A M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other Pilgrim Center/ Bath Gath Abstraction For Water Supply
 9. LOCATION DETAIL: U/s of Town or industrial Area. D/s of Town of Industrial Area

STATION: RIVER SHEONATH AT DURG
 TYPE: NEAR W/S INTAKE WELL POINT
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K. MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCF		VALUE	DETERMINAND	ARBITRARY		VALUE
	CODE	AQCF	CODE	AQCF			CODE	AQCF	
TEMPERATURE, °C	0 2 0 0	1 N				TURBIDITY, JT/UNTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N	7	5		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N				(i)CURRENT METER	0 2 2 0	1 N	
ALKALINITY, mg/L						(ii)FLOATE	0 2 2 0	2 N	
(1)ELECTOMETRIC	1 0 1 0	1 N				(iii)CHEMICAL	0 2 2 0	3 N	
(2)VISUAL TITRATION	1 0 1 0	2 N	9	6	0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N				(i)TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	6	8		(ii)NESSELERIZATION	0 7 0 0	4 N	
BOD, mg/l	0 8 2 0	1 N				HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	7 2 0
COD, mg/L	0 8 3 0	1 N	2	9	4	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
CHLORIDE, mg/L						TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	1 5 0 0
(1)ARGENTOMETRIC	1 7 2 0	1 N	2	4	0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(2)MERCURIMETRIC	1 7 2 0	1 N				AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L						(i)COLOURIMETRY	0 7 5 5	5 N	
(1)GRAVIMETRIC	1 6 3 0	1 N				(ii)DISTILLATION TITRATION	0 7 5 5	1 N	
(2)TURBIDIMETRIC	1 1 1 0	3 N				BORON DISSOLVED, mg/L	0 5 1 0	5 N	
SODIUM, mg/L	2 0 1 0	1 N	1	1	2	PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	1 2 1 0	3 N				NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	3 6 0 1	1 N				SUSPENDED SOLID, mg/L			6 0 0
FECAL COLIFORM MPN/100ml	9 7 1 6	7 N							
INSTANTANEOUS DISCHARGE, m ³									

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDATI/GLOWDAT

1. STATION CODE
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 18/4/7 21/06/17 11:50AM
 3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL U/s of Town or industrial area Dis of Town or industrial area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER KHARON AT DURG
 TYPE: UP STEAM NEAR DURG-RAIPUR ROAD - BRIDGE

COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	02001N			TURBIDITY, JTU/NTU	02101N		
pH	10302N	7.4		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	02041N			(i)CURRENT METER	02201N		
ALKALINITY, mg/L				(ii)FLOATE	02202N		
(1)ELECTOMETRIC	10101N			(iii)CHEMICAL	02203N		
(2)VISUAL TITRATION	10102N	110.0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			(i)TITRATION	07001N		
DISSOLVED OXYGEN, mg/L	08101N	7.6		(ii)NESSELERIZATION	07004N		
BOD, mg/l	08201N			HARDNESS as CaCO ₃ , mg/L	22101N	90.0	
COD, mg/L	08301N	29.4		TOTAL COLIFORM, MPN/100ml	37001N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3333N	220.0	
(1)ARGENTOMETRIC	17201N	26.0		FIXED DISSOLVED SOLIDS, mg/L	4444N		
(2)MERCURIMETRIC	17201N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	07555N		
(1)GRAVIMETRIC	16301N			(ii)DISTILLATION TITRATION	07551N		
(2)TURBIDIMETRIC	16302N			BORON DISSOLVED, mg/L	05105N		
SODIUM, mg/L	11103N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	20101N	18.4		NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	12103N	10.73		SUSPENDED SOLID, mg/L		50.0	
FECAL COLIFORM MPN/100ml	36011N						
INSTANTANEOUS DISCHARGE, m ³	97167N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 8 4 6
2 1 0 6 1 7 1 2 3 0 P M

3. WEATHER
 Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
 None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION
 Cattle Wading Melon Farming Fising Other
 U/s of Town or Industrial Area D/s of Town or Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

9. LOCATION DETAIL

STATION: RIVER KHARON AT DURG
 TYPE: AFTER KHAPRI NALLA
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K. MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY		DETERMINAND	ARBITRARY	
	CODE	AQFLAG	CODE	AQFLAG		CODE	VALUE
TEMPERATURE, °C	0 2 0 0 1 N		0 2 1 0 1 N		TURBIDITY, JTU/INTU		
pH	1 0 3 0 2 N	7. 5			VELOCITY OF FLOW, m/sec		
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N				(i) CURRENT METER	0 2 2 0 1 N	
ALKALINITY, mg/L					(ii) FLOATE	0 2 2 0 2 N	
(1) ELECTOMETRIC	1 0 1 0 1 N				(iii) CHEMICAL	0 2 2 0 3 N	
(2) VISUAL TITRATION	1 0 1 0 2 N	1 1 2. 0			TOTAL KJELDAHL NITROGEN, mg/L		
NITROGEN (NO ₃ +NO ₂), mg/L	0 7 1 0 5 N				(i) TITRATION	0 7 0 0 1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7. 8			(ii) NESSELERIZATION	0 7 0 0 4 N	
BOD, mg/l	0 8 2 0 1 N				HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	9 6. 0
COD, mg/L	0 8 3 0 1 N	3 9. 2			TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N	
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 N	2 1 0. 0
(1) ARGENTOMETRIC	1 7 2 0 1 N	2 8. 0			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N	
(2) MERCURIMETRIC	1 7 2 0 1 N				AMMONIUM NITROGEN, mg/L		
SULPHATE, mg/L					(i) COLOURIMETRY	0 7 5 5 N	
(1) GRAVIMETRIC	1 6 3 0 1 N				(ii) DISTILLATION TITRATION	0 7 5 5 N	
(2) TURBIDIMETRIC	1 6 3 0 2 N				BORON DISSOLVED, mg/L	0 5 1 0 5 N	
SODIUM, mg/L	1 1 1 0 3 N				PHOSPHATE, mg/L		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 1. 6			NITRITE mg/L		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 0. 2 4			SUSPENDED SOLID, mg/L		6 0. 0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION : NEHRU NAGAR TALAB
BHILAI DIST. DURG

STATION : NEHRU NAGAR TALAB
BHILAI DIST. DURG

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY

6. ODOUR

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

COMPLETED BY : N. K. PATEL
VERIFIED BY : U.K. MANDAL
AGENCY : R. O. C. E. C. B. BHILAI

3	1	6	4	2	3	0	6	1	7	0	3	2	0	P	M
Cloudy		Windy		Clear		Raining									
√ <50cm.		50-100cm.		>100cm.		Flood									
√ Clear		Turbid		Green		Brown		1=light		2=Moderate		3=High		TYPE : TALAB WATER	
√ None		Fishy		H ₂ S		Other									
None		Fishery		Other											
Cattle Wading		Melon Farming		Fishing		Other									
Dis of Town or Industrial Area		Pilgrim Center/ Bath Gath		Water Supply											

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	WHO CODE	AQCFLAG	VALUE
TEMPERATURE, °C	02001N			TURBIDITY, JTU/NTU	2101N		
pH	10302N	7.4		VELOCITY OF FLOW, m/sec	2201N		
CONDUCTIVITY, µhos/cm	02041N			(i) CURRENT METER	2202N		
ALKALINITY, mg/L	10101N			(ii) FLOATE	2203N		
(1) ELECTOMETRIC	10102N	172.0		TOTAL KJELDAHL NITROGEN, mg/L	7001N		
(2) VISUAL TITRATION	07105N			(i) TITRATION	7004N		
NITROGEN (NO ₃ +NO ₂), mg/L	08101N	6.8		(ii) NESSELERIZATION	2101N	132.0	
DISSOLVED OXYGEN, mg/L	08201N			HARDNESS as CaCO ₃ , mg/L	7001N		
BOD, mg/l	08301N	1.36		TOTAL COLIFORM, MPN/100ml	3333N	360.0	
COD, mg/L	17201N	68.0		TOTAL DISSOLVED SOLIDS, mg/L	4444N		
CHLORIDE, mg/L	17201N			FIXED DISSOLVED SOLIDS, mg/L	4444N		
(1) ARGENTOMETRIC	17201N			AMMONIUM NITROGEN, mg/L	7555N		
(2) MERCURIMETRIC	17201N			(i) COLOURIMETRY	7551N		
SULPHATE, mg/L	16301N			(ii) DISTILLATION TITRATION	5105N		
(1) GRAVIMETRIC	16302N			BORON DISSOLVED, mg/L			
(2) TURBIDIMETRIC	11103N			PHOSPHATE, mg/L			
SODIUM, mg/L	20101N	34.4		NITRITE mg/L		70.0	
CALCIUM as CaCO ₃ , mg/L	12103N	11.27		SUSPENDED SOLID mg/L			
MAGNESIUM as CaCO ₃ , mg/L	36011N						
FECAL COLIFORM MPN/100ml	97167N						
INSTANTANEOUS DISCHARGE, m ³							

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 11 07 15 06 17 02 10 PM
 3. WEATHER

Cloudy	Windy	Clear	Raining
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL

U/s of Town or industrial Area	D/s of Town of industrial Area	Pilgrim Center/ Bath Gath	Abstraction For Water Supply

STATION: RIVER SHEONATH AT RAJNANDGAON
 TYPE: NEAR W/S INTAKE-WELL POINT
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		VALUE		DETERMINAND	ARBITRARY		VALUE
	CODE	AQCFLAG	CODE	AQCFLAG		CODE	AQCFLAG	
TEMPERATURE, °C	020	01N			TURBIDITY, JT/NTU	021	01N	
pH	103	02N	7.4		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	020	41N			(i) CURRENT METER	022	01N	
ALKALINITY, mg/L					(ii) FLOATE	022	02N	
(1) ELECTOMETRIC	101	01N			(iii) CHEMICAL	022	03N	
(2) VISUAL TITRATION	101	02N			TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	071	05N			(i) TITRATION	070	01N	
DISSOLVED OXYGEN, mg/L	081	01N	6.8		(ii) NESSELERIZATION	070	04N	
BOD, mg/l	082	01N			HARDNESS as CaCO ₃ , mg/L	221	01N	78.0
CHLORIDE, mg/L	083	01N	19.0	4	TOTAL COLIFORM, MPN/100ml	370	01N	
(1) ARGENTOMETRIC	172	01N			TOTAL DISSOLVED SOLIDS, mg/L	333	33N	170.0
(2) MERCURIMETRIC	172	01N			FIXED DISSOLVED SOLIDS, mg/L	444	44N	
SULPHATE, mg/L					AMMONIUM NITROGEN, mg/L			
(1) GRAVIMETRIC	163	01N			(i) COLOURIMETRY	075	55N	
(2) TURBIDIMETRIC	163	02N			(ii) DISTILLATION TITRATION	075	51N	
SODIUM, mg/L	111	03N			BORON DISSOLVED, mg/L	051	05N	
CALCIUM as CaCO ₃ , mg/L	201	01N	18.4		PHOSPHATE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	121	03N			NITRITE mg/L			
FECAL COLIFORM MPN/100ml	360	11N			SUSPENDED SOLID mg/L			40.0
INSTANTANEOUS DISCHARGE, m ³	971	67N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE

3 1 6 6
1 1 0 4 1 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 1 : 5 5 A M

3. WEATHER

Cloudy Windy Clear Raining

STATION: RIVER SHEONATH
JHINJHRI VILLAGE, DURG

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY

Clear Turbid Green Brown 1=light 2=Moderate 3=High

TYPE : AFTER CONFLUENCE OF
SAMODA NALLA

6. ODOUR

None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT

None Fishery Other

COMPLETED BY : N. K. PATEL

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fising Other

VERIFIED BY : U.K.MANDAL

9. LOCATION DETAIL

U/s of Town or industrial Area	<input checked="" type="checkbox"/>	D/s of Town of Industrial Area	<input type="checkbox"/>	Pilgrim Center/ Bath Gath	<input type="checkbox"/>	Abstraction For Water Supply	<input type="checkbox"/>
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AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
pH	0 2 0 0 1 N			VELOCITY OF FLOW, m/sec	0 2 1 0 1 N		
CONDUCTIVITY, µghos/cm	1 0 3 0 2 N	7 . 5		(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L	0 2 0 4 1 N			(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 2 . 0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7 . 6		(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 0 4	
COD, mg/L	0 8 3 0 1 N	2 9 . 4		TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	2 2 0 . 0	
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 6 . 0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	1 7 . 6		NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 4 . 6 3		SUSPENDED SOLID, mg/L		6 0 . 0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDATI/GLOWDAT

1. STATION CODE: 8 1 2 8

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 23 0 6 1 7 0 1 : 3 0 A M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town of Pilgrim Center Abstraction For Bathing Ghat Water Supply PPI

STATION: I HAND PUMP WATER
 TYPE: SHANKAR NAGAR, H.I.A., BHILAI
 COMPLETED BY: N.K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N		TURBIDITY, JT/UNTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N	7.4	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N		(i) CURRENT METER	0 2 2 0	1 N	
ALKALINITY, mg/L				(ii) FLOATE	0 2 2 0	2 N	
(1) ELECTOMETRIC	1 0 1 0	1 N	1.2	(iii) CHEMICAL	0 2 2 0	3 N	
(2) VISUAL TITRATION	1 0 1 0	2 N		TOTAL K.JELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(i) TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N		(ii) NESSELERIZATION	0 7 0 0	4 N	
BOD, mg/l	0 8 2 0	1 N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	96.0
COD, mg/L	0 8 3 0	1 N	49.0	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	130.0
(1) ARGENTOMETRIC	1 7 2 0	1 N		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(2) MERCURIMETRIC	1 7 2 0	1 N		AMMONIUM NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5	5 N	
(1) GRAVIMETRIC	1 6 3 0	1 N		(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N	
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	2.4	NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	9.75	SUSPENDED SOLID, mg/L			40.0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 0 0 6 1 7 1 2 : 1 5 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: HITKASA TAILING DAM, RESERVIIR
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other Abstraction For
 9. LOCATION DETAIL: U/s of Town or Industrial Area Dis of Town of Industrial Area Pilgrim Center/ Bath Gath Water Supply

STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			VELOCITY OF FLOW, m/sec	2 1 0 1 N		
pH	1 0 3 0 2 N 7	2		(i)CURRENT METER	2 2 0 1 N		
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(ii)FLOATE	2 2 0 2 N		
ALKALINITY, mg/L				(iii)CHEMICAL	2 2 0 3 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			TOTAL KJELDAHL NITROGEN, mg/L			
(2)VISUAL TITRATION	1 0 1 0 2 N 1 2 8	0		(i)TITRATION	7 0 0 1 N		
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(ii)NESSELERIZATION	7 0 0 4 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6	7		HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N 9 6	0	
BOD, mg/l	0 8 2 0 1 N			TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
COD, mg/L	0 8 3 0 1 N 2 0 5			TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 N 4 1 0	0	
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	4 4 4 N		
(1)ARGENTOMETRIC	1 7 2 0 1 N 7 4	0		AMMONIAM NITROGEN, mg/L			
(2)MERCURIMETRIC	1 7 2 0 1 N			(i)COLOURIMETRY	7 5 5 N		
SULPHATE, mg/L				(ii)DISTILLATION TITRATION	7 5 5 1 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			PHOSPHATE, mg/L	5 1 0 5 N		
(2)TURBIDIMETRIC	1 1 1 0 3 N			NITRITE mg/L			
SODIUM, mg/L	1 1 1 0 3 N			SUSPENDED SOLID mg/L	1 1 0	0	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 4	0					
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 0	2 4					
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE: 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 9 0 7 1 7 0 3 : 1 0 P M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: TALAB WATER

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DE TAIL: U/s of Town or industrial Area D/s of Town of industrial Area Prigram Center/ Bath Gath Abstraction For Water Supply

STATION: NEHRU NAGAR TALAB
BHILAI DIST.DURG

COMPLETED BY: N. K. PATEL
VERIFIED BY: U.K. MANDAL
AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND	ARBITRARY		AQCFLAG		VALUE	
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	CODE	CODE	CODE	CODE
TEMPERATURE, °C	0 2 0	0 1 1	N	N			TURBIDITY, JTU/NTU	2	1	0	1	N	
pH	1 0 3	0 2 1	N	7	8		VELOCITY OF FLOW, m/sec						
CONDUCTIVITY, µghos/cm	0 2 0	4 1	N				(i)CURRENT METER	2	2	0	1	N	
ALKALINITY, mg/L							(ii)FLOATE	2	2	0	2	N	
(1)ELECTOMETRIC	1 0 1	0 1 1	N				(iii)CHEMICAL	2	2	0	3	N	
(2)VISUAL TITRATION	1 0 1	0 2 1	N	1 8	0	0	TOTAL KJELDAHL NITROGEN, mg/L						
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1	0 5	N				(i)TITRATION	7	0	0	1	N	
DISSOLVED OXYGEN, mg/L	0 8 1	0 1 1	N	7	2		(ii)NESSELERIZATION	7	0	0	4	N	
BOD, mg/l	0 8 2	0 1	N				HARDNESS as CaCO ₃ , mg/L	2	1	0	1	N	1 6 8
COD, mg/L	0 8 3	0 1 1	N	1 9	2	0	TOTAL COLIFORM, MPN/100ml	7	0	0	1	N	
CHLORIDE, mg/L							TOTAL DISSOLVED SOLIDS, mg/l	3	3	3	N	3 9 0	0
(1)ARGENTOMETRIC	1 7 2	0 1 1	N	7 4	0		FIXED DISSOLVED SOLIDS, mg/L	4	4	4	4	N	
(2)MERCURIMETRIC	1 7 2	0 1	N				AMMONIAM NITROGEN, mg/L						
SULPHATE, mg/L							(i)COLOURIMETRY	7	5	5	5	N	
(1)GRAVIMETRIC	1 6 3	0 1	N				(ii)DISTILATION TITRATION	7	5	5	1	N	
(2)TURBIDIMETRIC	1 6 3	0 2	N				BORON DISSOLVED, mg/L	5	1	0	5	N	
SODIUM, mg/L	1 1 1	0 3	N				PHOSPHATE, mg/L						
CALCIUM as CaCO ₃ , mg/L	2 0 1	0 1 1	N	3 8	4		NITRITE mg/L						
MAGENESIUM as CaCO ₃ , mg/L	1 2 1	0 3 1	N	1 7	5 6		SUSPENDED SOLI mg/L						7 0
FECAL COLIFORM MPN/100ml	3 6 0	1 1	N										
INSTANTANEOUS DISCHARGE, m ³	9 7 1	6 7	N										

(Signature)

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 8 0 7 1 7 1 0 : 5 0 A M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other Pilgrim Center/ Bath Gath Abstraction For Water Supply

9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of Industrial Area

STATION : RIVER SHEONATH AT DURG
 TYPE : NEAR W/S INTAKE WELL POINT
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCF		VALUE		DETERMINAND	ARBITRARY		VALUE
	CODE	QC	FL	AG	CODE	QC		FL	AG	
TEMPERATURE, °C	0 2 0 0	1	N				TURBIDITY, JT/UNTU	0 2 1 0	1	N
pH	1 0 3 0	2	N	7	8		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4	1	N				(i)CURRENT METER	0 2 2 0	1	N
ALKALINITY, mg/L							(ii)FLOATE	0 2 2 0	2	N
(1)ELECTOMETRIC	1 0 1 0	1	N				(iii)CHEMICAL	0 2 2 0	3	N
(2)VISUAL TITRATION	1 0 1 0	2	N	1 3	8	0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5	N				(i)TITRATION	0 7 0 0	1	N
DISSOLVED OXYGEN, mg/L	0 8 1 0	1	N	7	4		(ii)NESSELERIZATION	0 7 0 0	4	N
BOD, mg/l	0 8 2 0	1	N				HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1	N
COD, mg/L	0 8 3 0	1	N	3	8	0 8	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1	N
CHLORIDE, mg/l							TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3	N
(1)ARGENTOMETRIC	1 7 2 0	1	N	4	2	0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4	N
(2)MERCURIMETRIC	1 7 2 0	1	N				AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L							(i)COLOURIMETRY	0 7 5 5	5	N
(1)GRAVIMETRIC	1 6 3 0	1	N				(ii)DISTILATION TITRATION	0 7 5 5	1	N
(2)TURBIDIMETRIC	1 6 3 0	2	N				BORON DISSOLVED, mg/L	0 5 1 0	5	N
SODIUM, mg/L	1 1 1 0	3	N				PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1	N	2	4	8	NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3	N				SUSPENDED SOLID,mg/L			7 0 0
FECAL COLIFORM MPN/100ml	3 6 0 1	1	N							
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7	N							

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE 3 1 6 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 9 0 7 1 7 1 1 : 3 5 A M

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL U/s of Town or industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

DETERMINAND	WHO CODE	AQCFLAG	VALUE	ARBITRARY			
				CODE	AQCFLAG	VALUE	
TEMPERTURE, °C	0 2 0 0 1 N			0 2 1 0 1 N			
pH	1 0 3 0 2 N	7 . 5					
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			0 2 2 0 1 N			
ALKALINITY, mg/L				0 2 2 0 2 N			
(1)ELECTOMETRIC	1 0 1 0 1 N			0 2 2 0 3 N			
(2)VISUAL TITRATION	1 0 1 0 2 N	1 4 2 . 0					
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N						
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	8 . 0					
BOD, mg/l	0 8 2 0 1 N						
COD, mg/l	0 8 3 0 1 N	4 7 . 6					
CHLORIDE, mg/L							
(1)ARGENTOMETRIC	1 7 2 0 1 N	5 8 . 0					
(2)MERCURIMETRIC	1 7 2 0 1 N						
SULPHATE, mg/L							
(1)GRAVIMETRIC	1 6 3 0 1 N			0 7 5 5 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N			0 7 5 5 1 N			
SODIUM, mg/L	1 1 1 0 3 N			0 5 1 0 5 N			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 7 . 2					
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 4 . 6 3				8 0 . 0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

COMPLETED BY : N. K. PATEL
VERIFIED BY : U.K.MANDAL
AGENCY : R. O. C. E. C. B. BHILAI

(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 7 0 7 1 7 1 2 : 4 0 P M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: Cattle Wading Melon Farming Fising Other

8. HUMAN ACTIVITIES AROUND STATION: U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

9. LOCATION DETAIL: Industrial Area Bath Gath Water Supply

STATION: RIVER KHAROON AT DURG
TYPE: AFTER KHAPRI NALLA
COMPLETED BY: N. K. PATEL
VERIFIED BY: U.K. MANDAL
AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE	ARBITRARY	
								WHO	ARBITRARY
TEMPERATURE, °C	0 2 0 0	1 N		TURBIDITY, JT/UNTU	0 2 1 0	1 N			
pH	1 0 3 0	2 N	7.6	VELOCITY OF FLOW, m/sec					
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N		(i)CURRENT METER	0 2 2 0	1 N			
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0	2 N			
(1)ELECTOMETRIC	1 0 1 0	1 N		(iii)CHEMICAL	0 2 2 0	3 N			
(2)VISUAL TITRATION	1 0 1 0	2 N	1 6.0	TOTAL KJELDAHL NITROGEN, mg/L					
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(i)TITRATION	0 7 0 0	1 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7.2	(ii)NESSELERIZATION	0 7 0 0	4 N			
BOD, mg/l	0 8 2 0	1 N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	9 6.0		
COD, mg/l	0 8 3 0	1 N	3 9.2	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N			
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	2 1 0.0		
(1)ARGENTOMETRIC	1 7 2 0	1 N	3 4.0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N			
(2)MERCURIMETRIC	1 7 2 0	1 N		AMMONIAM NITROGEN, mg/L					
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5	5 N			
(1)GRAVIMETRIC	1 6 3 0	1 N		(ii)DISTILATION TITRATION	0 7 5 5	1 N			
(2)TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N			
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/l					
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	2 1.6	NITRITE mg/L					
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 0.2 4	SUSPENDED SOLID,mg/L			7 0.0		
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N							
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N							

(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 7 0 7 1 7 1 1 : 1 5 : 5 A M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial area D/s of Town or industrial area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER KHAROON AT DURG
 TIPE: UP STEAM NEAR DURG- RAIPUR ROAD - BRIDEGE
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N		TURBIDITY, JT/UNTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N	7.5	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N		(i)CURRENT METER	0 2 2 0	1 N	
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0	2 N	
(1)ELECTOMETRIC	1 0 1 0	1 N		(iii)CHEMICAL	0 2 2 0	3 N	
(2)VISUAL TITRATION	1 0 1 0	2 N	1 1 4.0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(i)TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7.2	(ii)NESSELERIZATION	0 7 0 0	4 N	
BOD, mg/l	0 8 2 0	1 N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	9 6.0
COD, mg/L	0 8 3 0	1 N	2 9.4	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	2 1 0.0
(1)ARGENTOMETRIC	1 7 2 0	1 N	3 2.0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(2)MERCURIMETRIC	1 7 2 0	1 N		AMMONIUM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5	5 N	
(1)GRAVIMETRIC	1 6 3 0	1 N		(ii)DISTILATION TITRATION	0 7 5 5	1 N	
(2)TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N	
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	2 0.0	NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 1.2	SUSPENDED SOLID, mg/L			7 0.0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 8 0 7 1 7 1 1 : 1 0 A M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or Dis of Town of Industrial Area Industrial Area Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT RAJNANDGAON
 TYPE : NEAR MOHAD VILLAGE DOWN STEAM
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE										
								TURBIDITY, JTU/NTU	VELOCITY OF FLOW, m/sec	(i)CURRENT METER	(ii)FLOATE	(iii)CHEMICAL	TOTAL KJELDAHL NITROGEN, mg/L	(i)TITRATION	(ii)NESSELERIZATION	HARDNESS as CaCO ₃ , mg/L	TOTAL COLIFORM, MPN/100ml
TEMPERATURE, °C	0 2 0	0 1 N			2	1 0 1 N											
pH	1 0 3	0 2 N	7.3														
CONDUCTIVITY, µhos/cm	0 2 0	4 1 N			2	2 0 1 N											
ALKALINITY, mg/L					2	2 0 2 N											
(1)ELECTOMETRIC	1 0 1	0 1 N			2	2 0 3 N											
(2)VISUAL TITRATION	1 0 1	0 2 N	9 8.0														
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1	0 5 N			7	0 0 1 N											
DISSOLVED OXYGEN, mg/L	0 8 1	0 1 N	6.8		7	0 0 4 N											
BOD, mg/l	0 8 2	0 1 N			2	1 0 1 N	1 8.0										
COD, mg/L	0 8 3	0 1 N	4.4		7	0 0 1 N											
CHLORIDE, mg/L																	
(1)ARGENTOMETRIC	1 7 2	0 1 N	3 8.0		3	3 3 N	3 1 0.0										
(2)MERCURIMETRIC	1 7 2	0 1 N			4	4 4 N											
SULPHATE, mg/L																	
(1)GRAVIMETRIC	1 6 3	0 1 N			7	5 5 N											
(2)TURBIDIMETRIC	1 6 3	0 2 N			7	5 1 N											
SODIUM, mg/L	1 1 1	0 3 N			5	1 0 5 N											
CALCIUM as CaCO ₃ , mg/L	2 0 1	0 1 N	2 4.8														
MAGNESIUM as CaCO ₃ , mg/L	1 2 1	0 3 N	1 3.6 5				8 0.0										
FECAL COLIFORM MPN/100ml	3 6 0	1 1 N															
INSTANTANEOUS DISCHARGE, m ³	9 1 7	1 6 7 N															

(Signature)

(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) :

3. WEATHER
 Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other
 Pilgrim Center/ Bath Gath Abstraction For Water Supply

9. LOCATION DETAIL
 U/s of Town or industrial Area D/s of Town or Industrial Area

STATION : RIVER SHEONATH AT
 RAJNANDGAON
 TYPE : NEAR W/S INTAKE-WELL POINT
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K.MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	AQCFLAG	VALUE	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	02001N			TURBIDITY, JT/NTU	02101N				
pH	10302N	7.3		VELOCITY OF FLOW, m/sec					
CONDUCTIVITY, µghos/cm	02041N			(i)CURRENT METER	02201N				
ALKALINITY, mg/L				(ii)FLOATE	02202N				
(1)ELECTOMETRIC	10101N			(iii)CHEMICAL	02203N				
(2)VISUAL TITRATION	10102N			TOTAL KJELDAHL NITROGEN, mg/L					
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			(i)TITRATION	07001N				
DISSOLVED OXYGEN, mg/L	08101N	6.8		(ii)NESSELERIZATION	07004N				
BOD, mg/l	08201N			HARDNESS as CaCO ₃ , mg/L	22101N	11000			
COD, mg/L	08301N	38.72		TOTAL COLIFORM, MPN/100ml	37001N				
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3333N	31000			
(1)ARGENTOMETRIC	17201N			FIXED DISSOLVED SOLIDS, mg/L	4444N				
(2)MERCURIMETRIC	17201N			AMMONIAM NITROGEN, mg/L					
SULPHATE, mg/L				(i)COLOURIMETRY	07555N				
(1)GRAVIMETRIC	16301N			(ii)DISTILLATION TITRATION	07551N				
(2)TURBIDIMETRIC	16302N			BORON DISSOLVED, mg/L	05105N				
SODIUM, mg/L	11103N			PHOSPHATE, mg/L					
CALCIUM as CaCO ₃ , mg/L	20101N	24.0		NITRITE mg/L					
MAGNESIUM as CaCO ₃ , mg/L	12103N			SUSPENDED SOLID mg/L			700		
FECAL COLIFORM MPN/100ml	36011N								
INSTANTANEOUS DISCHARGE, m ³	97167N								

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE: 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 1 0 7 1 7 1 2 : 2 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: HITKASA TAILING DAM, RESERVIIR
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other Pilgrim Center/ Bath Gath Abstraction For Water Supply
 9. LOCATION DETAIL: U/s of Town or industrial Area Industrial Area

STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND	ARBITRARY		AQCFLAG		VALUE	
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	CODE	CODE	CODE	CODE
TEMPERATURE, °C	0 2 0 0 1 N						TURBIDITY, JT/UNTU	2 1 0 1 N					
pH	1 0 3 0 2 N	7	2			VELOCITY OF FLOW, m/sec							
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N					(i)CURRENT METER	2 2 0 1 N						
ALKALINITY, mg/L						(ii)FLOATE	2 2 0 2 N						
(1)ELECTOMETRIC	1 0 1 0 1 N					(iii)CHEMICAL	2 2 0 3 N						
(2)VISUAL TITRATION	1 0 1 0 2 N	1 2 4	0			TOTAL KJELDAHL NITROGEN, mg/L							
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N					(i)TITRATION	7 0 0 1 N						
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6	4			(ii)NESSELERIZATION	7 0 0 4 N						
BOD, mg/l	0 8 2 0 1 N					HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N	1 2	0				
COD, mg/L	0 8 3 0 1 N	1 2 7	0			TOTAL COLIFORM, MPN/100ml	7 0 0 1 N						
CHLORIDE, mg/L						TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 N	3 2 0	0				
(1)ARGENTOMETRIC	1 7 2 0 1 N	5 4	0			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 N						
(2)MERCURIMETRIC	1 7 2 0 1 N					AMMONIAM NITROGEN, mg/L							
SULPHATE, mg/L						(i)COLOURIMETRY	7 5 5 N						
(1)GRAVIMETRIC	1 6 3 0 1 N					(ii)DISTILLATION TITRATION	7 5 5 1 N						
(2)TURBIDIMETRIC	1 6 3 0 2 N					BORON DISSOLVED, mg/L	5 1 0 5 N						
SODIUM, mg/L	1 1 1 0 3 N					PHOSPHATE, mg/L							
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 5	6			NITRITE mg/L							
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1	7 0			SUSPENDED SOLID mg/L					7 0	0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N												
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N												

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE: 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 9 0 8 1 7 1 2 : 1 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 TYPE: HITKASA TAILING DAM, RESERY/IIR
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	WHO CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	2 1 0 1 N		
pH	1 0 3 0 2 N	7 . 2		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 2 8 . 0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6 . 2		(ii)NESSELERIZATION	7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N	1 1 4 . 0	
COD, mg/L	0 8 3 0 1 N	1 5 3 . 6		TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 N	5 3 0 . 0	
(1)ARGENTOMETRIC	1 7 2 0 1 N	6 2 . 0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	7 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILATION TITRATION	7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 7 . 5		NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1 . 7 0		SUSPENDED SOLI mg/L		1 3 0 . 0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/ GLOWDAT

1. STATION CODE: 1107

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 04/08/17 02:05 PM

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial Area Dis of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER SHEONATH AT RAJNANDGAON
 TYPE: NEAR W/S INTAKE-WELL POINT
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	02001N		02101N	
pH	10302N	7.4		
CONDUCTIVITY, µghos/cm	02041N		02201N	
ALKALINITY, mg/L	10101N		02202N	
(1)ELECTOMETRIC	10101N		02203N	
(2)VISUAL TITRATION	10102N			
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			
DISSOLVED OXYGEN, mg/L	08101N	6.8	07001N	
BOD, mg/l	08201N		07004N	
COD, mg/L	08301N	38.4	22101N	110.0
CHLORIDE, mg/L		38.0	37001N	
(1)ARGENTOMETRIC	17201N		3333N	310.0
(2)MERCURIMETRIC	17201N		4444N	
SULPHATE, mg/L				
(1)GRAVIMETRIC	16301N		07555N	
(2)TURBIDIMETRIC	16302N		07551N	
SODIUM, mg/L	11103N		05105N	
CALCIUM as CaCO ₃ , mg/L	20101N	24.0		
MAGENESIUM as CaCO ₃ , mg/L	12103N			
FECAL COLIFORM MPN/100ml	36011N			60.0
INSTANTANEOUS DISCHARGE, m ³	97167N			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE 3167

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 040817 11:19AM

3. WEATHER
 Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High Other

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other Abstraction For Water Supply

9. LOCATION DETAIL
 U/s of Town or industrial Area D/s of Town of industrial Area

STATION : RIVER SHEONATH AT RAJNANDGAON
 TYPE : NEAR MOHAD VILLAGE DOWN STEAM
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND	ARBITRARY		VALUE	
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	CODE	CODE
TEMPERATURE, °C	020	01N					TURBIDITY, JTU/NTU	2	101N		
pH	103	02N	7	4			VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, µhos/cm	020	41N					(i)CURRENT METER	2	201N		
ALKALINITY, mg/L							(ii)FLOATE	2	202N		
(1)ELECTOMETRIC	101	01N					(iii)CHEMICAL	2	203N		
(2)VISUAL TITRATION	101	02N	1	2	0		TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	071	05N					(i)TITRATION	7	001N		
DISSOLVED OXYGEN, mg/L	081	01N	6	8			(ii)NESSELERIZATION	7	004N		
BOD, mg/l	082	01N					HARDNESS as CaCO ₃ , mg/L	2	101N	1	8
COD, mg/L	083	01N	4	9	0		TOTAL COLIFORM, MPN/100ml	7	001N		
CHLORIDE, mg/L							FIXED DISSOLVED SOLIDS, mg/L	3	333N	3	1
(1)ARGENTOMETRIC	172	01N	3	8	0		TOTAL DISSOLVED SOLIDS, mg/L	4	444N		
(2)MERCURIMETRIC	172	01N					AMMONIAM NITROGEN, mg/L				
SULPHATE, mg/L	163	01N					(i)COLOURIMETRY	7	555N		
(1)GRAVIMETRIC	163	02N					(ii)DISTILLATION TITRATION	7	551N		
(2)TURBIDIMETRIC	163	02N					BORON DISSOLVED, mg/L	5	105N		
SODIUM, mg/L	111	03N					PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	201	01N	2	4	8		NITRITE mg/L				
MAGNESIUM as CaCO ₃ , mg/L	121	03N	1	3	6	5	SUSPENDED SOLI mg/L			7	0
FECAL COLIFORM MPN/100ml	360	11N									
INSTANTANEOUS DISCHARGE, m ³	971	67N									

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1847

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 050517 11:57AM

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Meion Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial area D/s of Town or industrial area Bath Gath Pilgrim Center/ Water Supply

STATION: RIVER KHAROON AT DURG
 TYPE: UP STEAM NEAR DURG-RAIPUR ROAD - BRIDGE
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0200	1N		TURBIDITY, JT/NTU	0210	1N	
pH	1030	2N	7.3	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0204	1N		(i)CURRENT METER	0220	1N	
ALKALINITY, mg/L				(ii)FLOATE	0220	2N	
(1)ELECTOMETRIC	1010	1N		(iii)CHEMICAL	0220	3N	
(2)VISUAL TITRATION	1010	2N	9.8	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0710	5N		(i)TITRATION	0700	1N	
DISSOLVED OXYGEN, mg/L	0810	1N	6.8	(ii)NESSELERIZATION	0700	4N	
BOD, mg/l	0820	1N	8	HARDNESS as CaCO ₃ , mg/L	2210	1N	116.0
CHLORIDE, mg/L	0830	1N	8	TOTAL COLIFORM, MPN/100ml	3700	1N	
(1)ARGENTOMETRIC	1720	1N	3.2	TOTAL DISSOLVED SOLIDS, mg/L	3333	3N	310.0
(2)MERCURIMETRIC	1720	1N	0	FIXED DISSOLVED SOLIDS, mg/L	4444	4N	
SULPHATE, mg/L				AMMONIAM NITROGEN, mg/L			
(1)GRAVIMETRIC	1630	1N		(i)COLOURIMETRY	0755	5N	
(2)TURBIDIMETRIC	1630	2N		(ii)DISTILATION TITRATION	0755	1N	
SODIUM, mg/L	1110	3N		BORON DISSOLVED, mg/L	0510	5N	
CALCIUM as CaCO ₃ , mg/L	2010	1N	25.6	PHOSPHATE, mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1210	3N	12.68	NITRITE mg/L			
FECAL COLIFORM MPN/100ml	3601	1N		SUSPENDED SOLID, mg/L			50.0
INSTANTANEOUS DISCHARGE, m ³	9716	7N					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
[MINDAT/GLOWDAT

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 8 4 6
0 5 0 8 1 7 1 2 : 3 0 P M

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL U/S of Town or industrial Area D/s of Town of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER KHAROON AT DURG
TYPE : AFTER KHAPRI NALLA
COMPLETED BY : N. K. PATEL
VERIFIED BY : U.K. MANDAL
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	AQCFLAG	VALUE	ARBITRARY				
							CODE	AQCFLAG	VALUE		
TEMPERATURE, °C	0 2 0 0	1 N		TURBIDITY, JT/UNTU	0 2 1 0	1 N					
pH	1 0 3 0	2 N	7. 3	VELOCITY OF FLOW, m/sec							
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N		(i)CURRENT METER	0 2 2 0	1 N					
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0	2 N					
(1)ELECTOMETRIC	1 0 1 0	1 N		(iii)CHEMICAL	0 2 2 0	3 N					
(2)VISUAL TITRATION	1 0 1 0	2 N	1 0 2 . 0	TOTAL KJELDAHL NITROGEN, mg/L							
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(i)TITRATION	0 7 0 0	1 N					
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7 . 2	(ii)NESSELERIZATION	0 7 0 0	4 N					
BOD, mg/l	0 8 2 0	1 N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	1 8 . 0				
COD, mg/L	0 8 3 0	1 N	3 8 . 4	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N					
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	3 1 0 . 0				
(1)ARGENTOMETRIC	1 7 2 0	1 N	3 8 . 0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N					
(2)MERCURIMETRIC	1 7 2 0	1 N		AMMONIAM NITROGEN, mg/L							
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5	5 N					
(1)GRAVIMETRIC	1 6 3 0	1 N		(ii)DISTILLATION TITRATION	0 7 5 5	1 N					
(2)TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N					
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L							
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	2 8 . 8	NITRITE mg/L							
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 1 . 2 1	SUSPENDED SOLID,mg/L			5 0 . 0				
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N									
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N									

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE 3 1 6 6
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 7 0 8 1 7 1 1 : 3 0 A M
 3. WEATHER Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other
 STATION: RIVER SHEONATH
 JHINHRI VILLAGE, DURG
 TYPE : AFTER CONFLUENCE OF
 SAMODA NALLA
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K.MANDAL

9. LOCATION DETAIL
 U/s of Town or industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

DETERMINAND	WHO		ARBITRARY	
	CODE	QCFLAG	CODE	QCFLAG
TEMPERATURE, °C	0 2 0 1 N		0 2 1 0 1 N	
pH	1 0 3 0 2 N	7		
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		0 2 2 0 1 N	
ALKALINITY, mg/L			0 2 2 0 2 N	
(1)ELECTOMETRIC	1 0 1 0 1 N		0 2 2 0 3 N	
(2)VISUAL TITRATION	1 0 1 0 2 N	1 2 2		
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6		
BOD, mg/l	0 8 2 0 1 N			
COD, mg/L	0 8 3 0 1 N	3 9		
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 4		
(2)MERCURIMETRIC	1 7 2 0 1 N			
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N			
SODIUM, mg/L	1 1 1 0 3 N			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 9		
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 2		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			
INSTANTANEOUS DISCHARGE, m	9 7 1 6 7 N			
TURBIDITY, JT/UNTU				
VELOCITY OF FLOW, m/sec				
(i)CURRENT METER				
(ii)FLOATE				
(iii)CHEMICAL				
TOTAL KJELDAHL NITROGEN, mg/L				
(i)TITRATION				
(ii)NESSELERIZATION				
HARDNESS as CaCO ₃ , mg/L				
TOTAL COLIFORM, MPN/100ml				
TOTAL DISSOLVED SOLIDS, mg/L				
FIXED DISSOLVED SOLIDS, mg/L				
AMMONIUM NITROGEN, mg/L				
(i)COLOURIMETRY				
(ii)DISTILLATION TITRATION				
BORON DISSOLVED, mg/L				
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLID mg/L				

(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 0 4 0 8 1 7 1 0 : 4 0 A M

3. WEATHER: Cloudy Windy Clear Raining STATION : RIVER SHEONATH AT DURG

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. TYPE : NEAR W/S INTAKE WELL POINT

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High COMPLETED BY : N. K. PATEL

6. ODOUR: None Fishy H₂S Other VERIFIED BY : U.K. MANDAL

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other AGENCY : R. O. C. E. C. B. BHILAI

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other Abstraction For

9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Water Supply

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	AQCF	FLAG	VALUE	ARBITRARY CODE	AQCF	FLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N			TURBIDITY, JTU/NTU	0 2 1 0	1 N					
pH	1 0 3 0	2 N	7	3	VELOCITY OF FLOW, m/sec							
CONDUCTIVITY, µhos/cm	0 2 0 4	1 N			(i)CURRENT METER	0 2 2 0	1 N					
ALKALINITY, mg/L					(ii)FLOATE	0 2 2 0	2 N					
(1)ELECTOMETRIC	1 0 1 0	1 N			(iii)CHEMICAL	0 2 2 0	3 N					
(2)VISUAL TITRATION	1 0 1 0	2 N	1	4	TOTAL KJELDAHL NITROGEN, mg/L							
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N			(i)TITRATION	0 7 0 0	1 N					
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	6	8	(ii)NESSELERIZATION	0 7 0 0	4 N					
BOD, mg/l	0 8 2 0	1 N	2	9	HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	1	0	0		
COD, mg/L	0 8 3 0	1 N	2	9	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N					
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	3	1	0	0	
(1)ARGENTOMETRIC	1 7 2 0	1 N	3	4	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N					
(2)MERCURIMETRIC	1 7 2 0	1 N			AMMONIAM NITROGEN, mg/L							
SULPHATE, mg/L					(i)COLOURIMETRY	0 7 5 5	5 N					
(1)GRAVIMETRIC	1 6 3 0	1 N			(ii)DISTILATION TITRATION	0 7 5 5	1 N					
(2)TURBIDIMETRIC	1 6 3 0	2 N			BORON DISSOLVED, mg/L	0 5 1 0	5 N					
SODIUM, mg/L	1 1 1 0	3 N			PHOSPHATE, mg/L							
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	2	3	NITRITE mg/L							
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N			SUSPENDED SOLID, mg/L					5	0	0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N										
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N										

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE: 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 8 0 8 1 7 0 3 : 1 5 P M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: TALAB WATER

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: NEHRU NAGAR TALAB
BHILAI DIST.DURG

COMPLETED BY: N. K. PATEL

VERIFIED BY: U.K. MANDAL

AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	AQCFLAG	VALUE	ARBITRARY	
							CODE	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	2 1 0 1 N			
pH	1 0 3 0 2 N	7 . 4		VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	2 2 0 1 N			
ALKALINITY, mg/L				(ii)FLOATE	2 2 0 2 N			
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	2 2 0 3 N			
(2)VISUAL TITRATION	1 0 1 0 2 N	1 1 2 . 0		TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	7 0 0 1 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6 . 2		(ii)NESSELERIZATION	7 0 0 4 N			
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N	1 2 0 . 0		
COD, mg/L	0 8 3 0 1 N	1 1 8 . 5 6		TOTAL COLIFORM, MPN/100ml	7 0 0 1 N			
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 3 N	3 1 0 . 0		
(1)ARGENTOMETRIC	1 7 2 0 1 N	4 2 . 0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N			
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIUM NITROGEN, mg/L				
SULPHATE, mg/L				(i)COLOURIMETRY	7 5 5 5 N			
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	7 5 5 1 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	5 1 0 5 N			
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 8 . 8		NITRITE mg/L				
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1 . 7 0		SUSPENDED SOLI mg/L		6 0 . 0		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N							
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N							

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 1 0 0
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 9 0 8 1 7
 Cloudy Clear Windy Raining
- WEATHER: Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Flood
- COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High
- ODOUR: None Fishy H₂S Other
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High
- HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

STATION : River Mahanadi at Kharod
 TYPE : RIVER
 COMPLETED BY : R. R. Vaishnav (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

<input checked="" type="checkbox"/> U/S of Town or Industrial Area	<input type="checkbox"/> D/S of Town or Industrial area	<input type="checkbox"/> Pilgrim Center / Bathing Ghat	<input type="checkbox"/> Abstraction For Water Supply
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LOCATION DETAIL

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	ARBITRARY CODE							AQC FLAGE	VALUE	
				9	7	1	6	7	N				
TEMPERATURE, °c	0	2	0	0	1	N	2	9	0				
PH	1	0	3	0	2	N	8	0					
CONDUCTIVITY, µmhos/cm	0	2	0	4	1	N	3	1	0				
ALKALINITY, mg/L	1	0	1	0	1	N							
(1) ELECTROMETRIC	1	0	1	0	2	N	1	1	0				
(2) VISUAL TITRATION	0	7	1	0	5	N	2	8					
NITROGEN(NO ₃ + NO ₂), mg/L	0	8	1	0	1	N	7	3					
DISSOLVED OXYGEN, mg/L	0	8	2	0	1	N	2	7					
BOD, mg/L	0	8	3	0	1	N	2	8	0				
COD, mg/L	1	7	2	0	1	N	4	2	0				
CHLORIDE, mg/L	1	7	2	0	1	N	4	2	0				
(1) ARGENTOMETRIC	1	7	2	0	1	N	4	2	0				
(2) MERCURIMETRIC	1	7	2	0	1	N							
SULPHATE, mg/L	1	6	3	0	1	N							
(1) GRAVIMETRIC	1	6	3	0	2	N	3	8	0				
(2) TURBIDIMETRIC	1	1	1	0	3	N							
SODIUM, mg/L	2	0	1	0	1	N	1	6	8				
CALCIUM as CaCO ₃ , mg/L	1	2	1	0	3	N	7	3	1				
MAGNESIUM as CaCO ₃ , mg/L	3	6	0	1	1	N							
FECAL COLIFORM MPN/100mg/L													
INSTANTANEOUS DISCHARGE, m ³ /s													
TURBIDITY, JTU/NTU													
VELOCITY OF FLOW, m/sec													
(i) CURRENT METER													
(ii) FLOAT													
(iii) CHEMICAL													
TOTAL KjELDAHL NITROGEN, mg/L													
(i) TITRATION													
(i) NESSELERIZATION													
HARDNESS as CaCO ₃ , mg/L													
TOTAL COLIFORM, MPN/100ml													
TOTAL DISSOLVED SOLIDS, mg/L													
FIXED DISSOLVED SOLIDS, mg/L													
AMMONIA NITROGEN, mg/L													
(i) COLOURIMETRY													
(ii) DISTILLATION TITRATION													
BORON DISSOLVED, mg/L													
PHOSPHATE, mg/L													
NITRATE, mg/L													
Fluoride, Mg/L													

R. Vaishnav
CHEMIST

A. Yadav
SCIENTIST

A. Yadav
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY

6. ODOUR

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

1 1 0 6

0 4 0 8 1 7

Cloudy Clear Windy Raining

<50cm. 50 - 100 m. >100 cm. Floody

Clear Turbid Green Brown 1=Light 2=Moderate 3=Highly

None Fishy H₂S Other

none moderate High

Cattle Wading Melon Farming Fishing Other

U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Hasdeo at Champa

TYPE : 'RIVER'

COMPLETED BY : R. K. Ahirwar (Chemist)

VERIFIED BY : Dr. Anita Yadav (Scientist)

AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
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TEMPERATURE, °C	0	2	0	0	1	N	2	9	0
pH	1	0	3	0	2	N	8	5	0
CONDUCTIVITY, µmhos/cm	0	2	0	4	1	N	3	2	2
ALKALINITY, mg/L									
(1) ELECTROMETRIC	1	0	1	0	1	N			
(2) VISUAL TITRATION	1	0	1	0	2	N	1	2	0
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	0	5	N	2	7	
DISSOLVED OXYGEN, mg/L	0	8	1	0	1	N	7	2	
BOD, mg/L	0	8	2	0	1	N	2	6	
COD, mg/L	0	8	3	0	1	N	3	2	0
CHLORIDE, mg/L									
(1) ARGENTOMETRIC	1	7	2	0	1	N	6	2	0
(2) MERCURIMETRIC	1	7	2	0	1	N			
SULPHATE, mg/L									
(1) GRAVIMETRIC	1	6	3	0	1	N			
(2) TURBIDIMETRIC	1	6	3	0	2	N	4	8	0
SODIUM, mg/L	1	1	1	0	3	N			
CALCIUM as CaCO ₃ , mg/L	2	0	1	0	1	N	1	7	6
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	0	3	N	4	8	7
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1	N			

INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	6	7	N			
TURBIDITY, JTU/NTU	0	2	1	0	1	N	1	3	2
VELOCITY OF FLOW, m/sec									
(i) CURRENT METER	0	2	2	0	1	N			
(ii) FLOAT	0	2	2	0	2	N			
(iii) CHEMICAL	0	2	2	0	3	N			
TOTAL KIELDAHL NITROGEN, mg/L									
(i) TITRATION	0	7	0	0	1	N			
(ii) NITROGENIZATION	0	7	0	0	4				
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	6	4	0
TOTAL COLIFORM, MPN/100ml	3	7	0	0	1	N	5	0	0
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3	3	3	N	2	1	2
FIXED DISSOLVED SOLIDS, mg/L	4	4	4	4	4	N	1	1	6
AMMONIA NITROGEN, mg/L									
(i) COLOURIMETRY	0	7	5	5	5	N	1	9	
(ii) DISTILLATION TITRATION	0	7	5	5	1	N			
BORON DISSOLVED, mg/L	0	5	1	0	5	N			
PHOSPHATE, mg/L									
NITRITE, mg/L									
Fluoride, Mg/L									

[Signature]
CHEMIST

[Signature]
SCIENTIST

[Signature]
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 4 6 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 9 0 8 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50 - 100 m. >100 cm. Flood

5. COLOUR & INTENSITY

Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR

None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL

U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : River Mahanadi at Balpur
 TYPE : RIVER
 COMPLETED BY : R. R. Vaishnav (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 9 . 0		
pH	1 0 3 0 2 N 8 . 5		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 3 0 . 0		
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 1 6 . 0		
NITROGEN(NO3 + NO2), mg/L	0 7 1 0 5 N 2 . 8		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 . 3		
BOD, mg/L	0 8 2 0 1 N 2 . 7		
COD, mg/L	0 8 3 0 1 N 3 4 . 0		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 6 4 . 0		
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 5 0 . 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO3, mg/L	2 0 1 0 1 N 2 0 . 0		
MAGNESIUM as CaCO3, mg/L	1 2 1 0 3 N 4 . 3 9		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	7 1 6 7 N		
TURBIDITY, JTU/NTU	0 2 1 0 1 N 1 3 8 . 0		
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KjELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) Nesslerization	0 7 0 0 4		
HARDNESS as CaCO3, mg/L	2 2 1 0 1 N 6 8 . 0		
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 5 0 0 . 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 2 2 4 . 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 1 2 1 . 0		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 2 . 0		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

Raj
CHEMIST

Alu
SCIENTIST

Ne
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 0 7 0 9 1 7 1 1 : 5 5 A.M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or Industrial area D/s of Town or Industrial area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER KHAROON AT DURG
 TYPE: UP STEAM NEAR DURG- RAIPUR ROAD - BRIDGE
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAND	CODE	AQFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7.		2	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N 1 2 4 0			TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6.		8	(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N 1 6.		0
CHLORIDE, mg/L	0 8 3 0 1 N 2 9.		6 4	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
(1)ARGENTOMETRIC	1 7 2 0 1 N 3 8.		0	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 2 9 0.		0
(2)MERCURIMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
SULPHATE, mg/L				AMMONIUM NITROGEN, mg/L			
(1)GRAVIMETRIC	1 6 3 0 1 N			(i)COLOURIMETRY	0 7 5 5 5 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
SODIUM, mg/L	1 1 1 0 3 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 5.		6	PHOSPHATE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 2.		6 8	NITRITE mg/L			
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			SUSPENDED SOLID, mg/L			7 0. 0
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 0 4 0 9 1 7 1 1 : 1 5 A M
 3. WEATHER: Cloudy Windy Clear Raining Flood
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm.
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other Abstraction For Water Supply
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath

STATION : RIVER SHEONATH AT
RAJNANDGAON

TYPE : NEAR MOHAD VILLAGE DOWN STEAM
COMPLETED BY : N. K. PATEL
VERIFIED BY : U.K. MANDAL
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	WHO CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	2 1 0 1 N		
pH	1 0 3 0 2 N	7. 4		VELOCITY OF FLOW, m/sec	2 2 0 1 N		
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i) CURRENT METER	2 2 0 2 N		
ALKALINITY, mg/L	1 0 1 0 1 N			(ii) FLOATE	2 2 0 3 N		
(1) ELECTOMETRIC	1 0 1 0 2 N	9 8. 0		(iii) CHEMICAL			
(2) VISUAL TITRATION	0 7 1 0 5 N			TOTAL KJELDAHL NITROGEN, mg/L	7 0 0 1 N		
NITROGEN (NO ₃ +NO ₂), mg/L	0 8 1 0 1 N	7. 2		(i) TITRATION	7 0 0 4 N		
DISSOLVED OXYGEN, mg/L	0 8 2 0 1 N			(ii) NESSELERIZATION	2 1 0 1 N	1 1 6. 0	
BOD, mg/l	0 8 3 0 1 N	1 9. 3		HARDNESS as CaCO ₃ , mg/L	7 0 0 1 N		
COD, mg/L				TOTAL COLIFORM, MPN/100ml	3 3 3 3 N	2 8 0. 0	
CHLORIDE, mg/L	1 7 2 0 1 N	3 2. 0		TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4 N		
(1) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L			
(2) MERCURIMETRIC				AMMONIAM NITROGEN, mg/L	7 5 5 5 N		
SULPHATE, mg/L	1 6 3 0 1 N			(i) COLOURIMETRY	7 5 5 1 N		
(1) GRAVIMETRIC	1 6 3 0 2 N			(ii) DISTILLATION TITRATION	5 1 0 5 N		
(2) TURBIDIMETRIC	1 1 1 0 3 N			BORON DISSOLVED, mg/L			
SODIUM, mg/L	2 0 1 0 1 N	2 5. 6		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 2. 6 8		NITRITE mg/L		6 0. 0	
MAGNESIUM as CaCO ₃ , mg/L	3 6 0 1 1 N			SUSPENDED SOLID mg/L			
FECAL COLIFORM MPN/100ml	9 7 1 6 7 N						
INSTANTANEOUS DISCHARGE, m ³							

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

STATION CODE: 1107
 DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 040917 02:10 PM
 WEATHER: Cloudy Windy Clear Raining Flood
 APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm.
 COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 ODOUR: None Fishy H₂S Other
 VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Pilgrim Center/
 LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area Abstraction For Water Supply

STATION: RIVER SHEONATH AT RAJNANDGAON
 TYPE: NEAR W/S INTAKE-WELL POINT
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		VALUE	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	02001N			
pH	10302N	7.4		
CONDUCTIVITY, µghos/cm	02041N			
ALKALINITY, mg/L	10101N			
(1)ELECTOMETRIC	10102N			
(2)VISUAL TITRATION	07105N			
NITROGEN(NO ₃ +NO ₂), mg/L	08101N	7.2		
DISSOLVED OXYGEN, mg/L	08201N			
BOD, mg/l	08301N	1.9	3	
COD, mg/L	08301N	30.0	0	
CHLORIDE, mg/L	17201N			
(1)ARGENTOMETRIC	17201N			
(2)MERCURIMETRIC				
SULPHATE, mg/L	16301N			
(1)GRAVIMETRIC	16302N			
(2)TURBIDIMETRIC	11103N	2.5	6	
SODIUM, mg/L	20101N			
CALCIUM as CaCO ₃ , mg/L	12103N			
MAGENESIUM as CaCO ₃ , mg/L	36011N			
FECAL COLIFORM MPN/100ml	97167N			
INSTANTANEOUS DISCHARGE, m ³				

DETERMINAND	ARBITRARY		VALUE	
	CODE	AQCFLAG	CODE	AQCFLAG
TURBIDITY, JT/UNTU	02101N			
VELOCITY OF FLOW, m/sec	02201N			
(i)CURRENT METER	02202N			
(ii)FLOATE	02203N			
(iii)CHEMICAL				
TOTAL KJELDAHL NITROGEN, mg/L	07001N			
(i)TITRATION	07004N			
(ii)NESSELERIZATION	22101N	1.6	0	
HARDNESS as CaCO ₃ , mg/L	37001N			
TOTAL COLIFORM, MPN/100ml	3333N	28	0	
TOTAL DISSOLVED SOLIDS, mg/L	4444N			
FIXED DISSOLVED SOLIDS, mg/L				
AMMONIUM NITROGEN, mg/L	0755N			
(i)COLOURIMETRY	07551N			
(ii)DISTILLATION TITRATION	05105N			
BORON DISSOLVED, mg/L				
PHOSPHATE, mg/L				
NITRITE mg/L		6	0	
SUSPENDED SOLID mg/L				

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARSIGEMS
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 0 9 1 7 1 2 : 1 5 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 TYPE: HITKASA TAILING DAM, RESERVIIR
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCF	LAG	VALUE	DETERMINAND	WHO CODE	AQCF	LAG	VALUE
TEMPERATURE, °C	0 2 0 0	1	N		TURBIDITY, JT/UNTU	2 1 0 1	N		
pH	1 0 3 0	2	N	7. 1	VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, µghos/cm	0 2 0 4	1	N		(i)CURRENT METER	2 2 0 1	N		
ALKALINITY, mg/L					(ii)FLOATE	2 2 0 2	N		
(1)ELECTOMETRIC	1 0 1 0	1	N		(iii)CHEMICAL	2 2 0 3	N		
(2)VISUAL TITRATION	1 0 1 0	2	N	1 2 8 0	TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5	N		(i)TITRATION	7 0 0 1	N		
DISSOLVED OXYGEN, mg/L	0 8 1 0	1	N	2. 0	(ii)NESSELERIZATION	7 0 0 4	N		
BOD, mg/l	0 8 2 0	1	N		HARDNESS as CaCO ₃ , mg/L	2 1 0 1	N		
COD, mg/L	0 8 3 0	1	N	2 0 5. 8	TOTAL COLIFORM, MPN/100ml	7 0 0 1	N		
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	N 5 3 0. 0		
(1)ARGENTOMETRIC	1 7 2 0	1	N	7 4. 0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	N		
(2)MERCURIMETRIC	1 7 2 0	1	N		AMMONIAM NITROGEN, mg/L				
SULPHATE, mg/L					(i)COLOURIMETRY	7 5 5 5	N		
(1)GRAVIMETRIC	1 6 3 0	1	N		(ii)DISTILLATION TITRATION	7 5 5 1	N		
(2)TURBIDIMETRIC	1 1 1 0	3	N		BORON DISSOLVED, mg/L	5 1 0 5	N		
SODIUM, mg/L	2 0 1 0	1	N	2 7. 5	PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	1 2 1 0	3	N	1 1. 7 0	NITRITE mg/L				
MAGENESIUM as CaCO ₃ , mg/L	3 6 0 1	1	N		SUSPENDED SOLID mg/L				
FECAL COLIFORM MPN/100ml	9 7 1 6	7	N						
INSTANTANEOUS DISCHARGE, m ³									

(Signature)

(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 8 4 1 6
0 7 0 9 1 7 1 2 : 4 0 P M

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming

9. LOCATION DETAIL U/S of Town or industrial Area D/S of Town or industrial Area Pilgrim Center/ Bath Gath Other Abstraction For Water Supply

STATION : RIVER KHAROON AT DURG
TYPE : AFTER KHAPRI NALLA
COMPLETED BY : N. K. PATEL
VERIFIED BY : U.K. MANDAL
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	ARBITRARY			
				CODE	AQCFLAG	VALUE	
TEMPERATURE, °C	0 2 0 0 1 N			0 2 1 0 1 N			
pH	1 0 3 0 2 N	7 . 3					
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N						
ALKALINITY, mg/L							
(1)ELECTOMETRIC	1 0 1 0 1 N			0 2 2 0 1 N			
(2)VISUAL TITRATION	1 0 1 0 2 N	1 3 2 . 0		0 2 2 0 2 N			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			0 2 2 0 3 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6 . 8					
BOD, mg/l	0 8 2 0 1 N						
COD, mg/L	0 8 3 0 1 N	3 9 . 5 2					
CHLORIDE, mg/L							
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 8 . 0					
(2)MERCURIMETRIC	1 7 2 0 1 N						
SULPHATE, mg/L							
(1)GRAVIMETRIC	1 6 3 0 1 N						
(2)TURBIDIMETRIC	1 6 3 0 2 N						
SODIUM, mg/L	1 1 1 0 3 N						
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 8 . 6					
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1 . 2 8					
FECAL COLIFORM MPNI/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						
TURBIDITY, JT/UNTU							
VELOCITY OF FLOW, m/sec							
(i)CURRENT METER							
(ii)FLOATE							
(iii)CHEMICAL							
TOTAL KJELDAHL NITROGEN, mg/L							
(i)TITRATION							
(ii)NESSELERIZATION							
HARDNESS as CaCO ₃ , mg/L							
TOTAL COLIFORM, MPN/100ml							
TOTAL DISSOLVED SOLIDS, mg/L							
FIXED DISSOLVED SOLIDS, mg/L							
AMMONIUM NITROGEN, mg/L							
(i)COLOURIMETRY							
(ii)DISTILLATION TITRATION							
BORON DISSOLVED, mg/L							
PHOSPHATE, mg/L							
NITRITE mg/L							
SUSPENDED SOLID, mg/L							

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE: 3 1 6 4
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 2 0 9 1 7 0 3 : 2 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE TALAB WATER
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: NEHRU NAGAR TALAB
 BHILAI DIST. DURG

STATION: N. K. PATEL
 COMPLETED BY: U.K. MANDAL
 VERIFIED BY: U.K. MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	2 1 0 1 N		
pH	1 0 3 0 2 N 7. 5			VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µhos/cm	0 2 0 4 1 N			(i) CURRENT METER	2 2 0 1 N		
ALKALINITY, mg/L				(ii) FLOATE	2 2 0 2 N		
(1) ELECTOMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	2 2 0 3 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 2 4. 0			TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i) TITRATION	7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6. 4			(ii) NESSELERIZATION	7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N 1 2 0. 0		
COD, mg/L	0 8 3 0 1 N 1 5 8. 0 8			TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	3 3 3 3 N 2 8 0. 0		
(1) ARGENTOMETRIC	1 7 2 0 1 N 6 8. 0			AMMONIUM NITROGEN, mg/L	4 4 4 4 N		
(2) MERCURIMETRIC	1 7 2 0 1 N			(i) COLOURIMETRY	7 5 5 5 N		
SULPHATE, mg/L				(ii) DISTILLATION TITRATION	7 5 5 1 N		
(1) GRAVIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	5 1 0 5 N		
(2) TURBIDIMETRIC	1 1 1 0 3 N			PHOSPHATE, mg/L			
SODIUM, mg/L	2 0 1 0 1 N 2 8. 8			NITRITE mg/L			
CALCIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 1. 7 0			SUSPENDED SOLID mg/L			6 0. 0
MAGNESIUM as CaCO ₃ , mg/L	3 6 0 1 1 N						
FECAL COLIFORM MPN/100ml	9 7 1 6 7 N						
INSTANTANEOUS DISCHARGE, m ³							

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 6
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 1 0 9 1 7 1 1 : 2 0 A M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area Dis of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER SHEONATH AT JHINJHRI VILLAGE, DURG
 TYPE: AFTER CONFLUENCE OF SAMODA NALLA
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N		
pH	1 0 3 0 2 N	7	5
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		
ALKALINITY, mg/L			
(1)ELECTOMETRIC	1 0 1 0 1 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 4 2	0
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7	4
BOD, mg/l	0 8 2 0 1 N		
COD, mg/L	0 8 3 0 1 N	3 8	8
CHLORIDE, mg/L			
(1)ARGENTOMETRIC	1 7 2 0 1 N	5 8	0
(2)MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1)GRAVIMETRIC	1 6 3 0 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 7	2
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 4	6 3
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE, m	9 7 1 6 7 N		

DETERMINAND	WHO CODE	AQCFLAG	VALUE
TURBIDITY, JT/UNTU	0 2 1 0 1 N		
VELOCITY OF FLOW, m/sec			
(i)CURRENT METER	0 2 2 0 1 N		
(ii)FLOATE	0 2 2 0 2 N		
(iii)CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(i)TITRATION	0 7 0 0 1 N		
(ii)NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 2 8	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	3 1 0	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
AMMONIAM NITROGEN, mg/L			
(i)COLOURIMETRY	0 7 5 5 5 N		
(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE mg/l			
SUSPENDED SOLID mg/l			

A. J. V. M.

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/ GLOWDAT

1. STATION CODE: 1 8 4 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 1 0 9 1 7 1 0 : 5 0 A M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT DURG
 TYPE : NEAR W/S INTAKE WELL POINT
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	ARBITRARY CODE	AQCF	FLAG	VALUE							
														TEMPERATURE, °C	pH	CONDUCTIVITY, µghos/cm	ALKALINITY, mg/L	(1)ELECTOMETRIC	(2)VISUAL TITRATION	NITROGEN(NO ₃ +NO ₂), mg/L
TEMPERATURE, °C	0 2 0 0	1	N		TURBIDITY, JTUNTU	0 2 1 0	1	N												
pH	1 0 3 0	2	N	7.4	VELOCITY OF FLOW, m/sec															
CONDUCTIVITY, µghos/cm	0 2 0 4	1	N		(i)CURRENT METER	0 2 2 0	1	N												
ALKALINITY, mg/L					(ii)FLOATE	0 2 2 0	2	N												
(1)ELECTOMETRIC	1 0 1 0	1	N		(iii)CHEMICAL	0 2 2 0	3	N												
(2)VISUAL TITRATION	1 0 1 0	2	N	3 0.0	TOTAL KJELDAHL NITROGEN, mg/L															
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5	N		(i)TITRATION	0 7 0 0	1	N												
DISSOLVED OXYGEN, mg/L	0 8 1 0	1	N	7.4	(ii)NESSELERIZATION	0 7 0 0	4	N												
BOD, mg/l	0 8 2 0	1	N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1	N	1 8.0											
COD, mg/L	0 8 3 0	1	N	0 8	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1	N												
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3	N	3 1 0.0											
(1)ARGENTOMETRIC	1 7 2 0	1	N	4 8.0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4	N												
(2)MERCURIMETRIC	1 7 2 0	1	N		AMMONIAM NITROGEN, mg/L															
SULPHATE, mg/L					(i)COLOURIMETRY	0 7 5 5	5	N												
(1)GRAVIMETRIC	1 6 3 0	1	N		(ii)DISTILLATION TITRATION	0 7 5 5	1	N												
(2)TURBIDIMETRIC	1 6 3 0	2	N		BORON DISSOLVED, mg/L	0 5 1 0	5	N												
SODIUM, mg/L	1 1 1 0	3	N		PHOSPHATE, mg/L															
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1	N	2 6.4	NITRITE mg/L															
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3	N		SUSPENDED SOLID, mg/L					6 0.0										
FECAL COLIFORM MPN/100ml	3 6 0 1	1	N																	
INSTANTANEOUS DISCHARGE, m	9 7 1 6	7	N																	

(Signature)

(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDATI/GLOWDAT

1. STATION CODE: 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY): 2 7 1 0 1 7 0 5 : 1 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: HITKASA TAILING DAM, RESERVIIR
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other Abstraction For
 9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of industrial Area Bath Gath Water Supply

STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERTURE, °C	0 2 0 0 1 N		2 1 0 1 N	
pH	1 0 3 0 2 N	7 . 2		
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		2 2 0 1 N	
ALKALINITY, mg/L			2 2 0 2 N	
(1)ELECTOMETRIC	1 0 1 0 1 N		2 2 0 3 N	
(2)VISUAL TITRATION	1 0 1 0 2 N	1 2 4 . 0		
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N		7 0 0 1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6 . 2	7 0 0 4 N	
BOD, mg/l	0 8 2 0 1 N		2 1 0 1 N	
COD, mg/L	0 8 3 0 1 N	1 2 4 . 8	7 0 0 1 N	
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N	5 0 . 0	3 3 3 3 N	3 8 0 . 0
(2)MERCURIMETRIC	1 7 2 0 1 N		4 4 4 4 N	
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 N		7 5 5 5 N	
(2)TURBIDIMETRIC	1 6 3 0 2 N		7 5 5 1 N	
SODIUM, mg/L	1 1 1 0 3 N		5 1 0 5 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 4 . 8		
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	8 . 2 9		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N			
TURBIDITY, JTU/NTU				
VELOCITY OF FLOW, m/sec				
(i)CURRENT METER				
(ii)FLOATE				
(iii)CHEMICAL				
TOTAL KJELDAHL NITROGEN, mg/L				
(i)TITRATION				
(ii)NESSELERIZATION				
HARDNESS as CaCO ₃ , mg/L				
TOTAL COLIFORM, MPN/100ml				
FIXED DISSOLVED SOLIDS, mg/L				
AMMONIAM NITROGEN, mg/L				
(i)COLOURIMETRY				
(ii)DISTILATION TITRATION				
BORON DISSOLVED, mg/L				
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLID mg/L				

N. K. PATEL

U.K. Mandal

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE

3 1 6 4
2 7 1 0 1 7 0 5 : 1 0 P M

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY

Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE : TALAB WATER

6. ODOUR

None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing Other AGENCY : R. O. C. E. C. B. BHILAI

9. LOCATION DETAIL

U/s of Town or industrial Area Dis of Town of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : NEHRU NAGAR TALAB
BHILAI DIST. DURG

COMPLETED BY : N. K. PATEL

VERIFIED BY : U.K. MANDAL

WHO

DETERMINAND	WHO CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N		
pH	1 0 3 0 2 N 7	3	
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		
ALKALINITY, mg/L			
(1)ELECTOMETRIC	1 0 1 0 1 N		
(2)VISUAL TITRATION	1 0 1 0 2 N 1 6 6	0	
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6	4	
BOD, mg/l	0 8 2 0 1 N		
COD, mg/L	0 8 3 0 1 N 1 9 2	0	
CHLORIDE, mg/L			
(1)ARGENTOMETRIC	1 7 2 0 1 N 6 8	0	
(2)MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1)GRAVIMETRIC	1 6 3 0 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 3 7	6	
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 3	1 7	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE, m	9 7 1 6 7 N		

ARBITRARY

DETERMINAND	WHO CODE	AQCFLAG	VALUE
TURBIDITY, JTU/NTU	2 1 0 1 N		
VELOCITY OF FLOW, m/sec			
(i)CURRENT METER	2 2 0 1 N		
(ii)FLOATE	2 2 0 2 N		
(iii)CHEMICAL	2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(i)TITRATION	7 0 0 1 N		
(ii)NESSELERIZATION	7 0 0 4 N		
HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N 1 4 8	0	
TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 N 2 9 0	0	
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 N		
AMMONIAM NITROGEN, mg/L			
(i)COLOURIMETRY	7 5 5 N		
(ii)DISTILATION TITRATION	7 5 5 N		
BORON DISSOLVED, mg/L	5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE mg/L			
SUSPENDED SOLI mg/L		8 0	0

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 6
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 26/10/17 03:45 PM
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: Us of Town or industrial Area Dis of Town of industrial Area Bath Gath Abstraction For Water Supply

STATION : RIVER KHAROON AT DURG
 TYPE : AFTER KHAPRI NALLA
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO				ARBITRARY			
	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE	
TEMPERATURE, °C	02001N			TURBIDITY, JTU/NTU	02101N			
pH	10302N	7.4		VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, μghos/cm	02041N			(i)CURRENT METER	02201N			
ALKALINITY, mg/L				(ii)FLOATE	02202N			
(1)ELECTOMETRIC	10101N			(iii)CHEMICAL	02203N			
(2)VISUAL TITRATION	10102N	124.0		TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			(i)TITRATION	07001N			
DISSOLVED OXYGEN, mg/L	08101N	7.8		(ii)NESSELERIZATION	07004N			
BOD, mg/l	08201N			HARDNESS as CaCO ₃ , mg/L	22101N	18.0		
COD, mg/l	08301N	28.8		TOTAL COLIFORM, MPN/100ml	37001N			
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	33331N	310.0		
(1)ARGENTOMETRIC	17201N	36.0		FIXED DISSOLVED SOLIDS, mg/L	44444N			
(2)MERCURIMETRIC	17201N			AMMONIAM NITROGEN, mg/L				
SULPHATE, mg/L	16301N			(i)COLOURIMETRY	07555N			
(1)GRAVIMETRIC	16302N			(ii)DISTILATION TITRATION	07551N			
(2)TURBIDIMETRIC	11103N			BORON DISSOLVED, mg/L	05105N			
SODIUM, mg/L	20101N	28.8		PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	12103N	11.2		NITRITE mg/L				
MAGENESIUM as CaCO ₃ , mg/L	36011N			SUSPENDED SOLID, mg/L		50.0		
FECAL COLIFORM MPN/100ml	97167N							
INSTANTANEOUS DISCHARGE, m								

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 6 1 0 1 7 0 2 : 4 5 P M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial area D/s of Town or industrial area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER KHAROON AT DURG
 TYPE: UP STEAM NEAR DURG- RAIPUR ROAD - BRIDGE
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N		TURBIDITY, JT/UNTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N 7	3	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N		(i) CURRENT METER	0 2 2 0	1 N	
ALKALINITY, mg/L				(ii) FLOATE	0 2 2 0	2 N	
(1) ELECTOMETRIC	1 0 1 0	1 N		(iii) CHEMICAL	0 2 2 0	3 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 1 1 2	0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(i) TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7	6	(ii) NESSELERIZATION	0 7 0 0	4 N	
BOD, mg/l	0 8 2 0	1 N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N 1 1 6	0
COD, mg/L	0 8 3 0	1 N 2 8	8	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 2 9 0	0
(1) ARGENTOMETRIC	1 7 2 0	1 N 3 6	0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(2) MERCURIMETRIC	1 7 2 0	1 N		AMMONIUM NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5	5 N	
(1) GRAVIMETRIC	1 6 3 0	1 N		(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N	
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 6 4	0	NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 1 2	6 8	SUSPENDED SOLID, mg/L			5 0 0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE: 1 1 0 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 7 1 0 1 7 0 1 : 4 5 A M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT
RAJNANDGAON

TYPE : NEAR W/S INTAKE-WELL POINT
COMPLETED BY : N. K. PATEL

VERIFIED BY : U.K.MANDAL

AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N		VELOCITY OF FLOW, m/sec	0 2 1 0	1 N	
pH	1 0 3 0	2 N	7.4	(i) CURRENT METER	0 2 2 0	1 N	
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N		(ii) FLOATE	0 2 2 0	2 N	
ALKALINITY, mg/L				(iii) CHEMICAL	0 2 2 0	3 N	
(1) ELECTOMETRIC	1 0 1 0	1 N		TOTAL KJELDAHL NITROGEN, mg/L			
(2) VISUAL TITRATION	1 0 1 0	2 N		(i) TITRATION	0 7 0 0	1 N	
NITROGEN (NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(ii) NESSELERIZATION	0 7 0 0	4 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	6.8	HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	9 6 0
BOD, mg/l	0 8 2 0	1 N		TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
COD, mg/L	0 8 3 0	1 N	2 9.6 4	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	2 8 0 0
CHLORIDE, mg/L			2 4 0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(1) ARGENTOMETRIC	1 7 2 0	1 N		AMMONIAM NITROGEN, mg/L			
(2) MERCURIMETRIC	1 7 2 0	1 N		(i) COLOURIMETRY	0 7 5 5	5 N	
SULPHATE, mg/L				(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
(1) GRAVIMETRIC	1 6 3 0	1 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N		PHOSPHATE, mg/L			
SODIUM, mg/L	1 1 1 0	3 N		NITRITE mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	2 0 0	SUSPENDED SOLID mg/L			5 0 0
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N					
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY): 1 7 1 0 1 7 0 1 2 : 4 1 5 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or D/s of Town of Industrial Area Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT
 RAJNANDGAON
 TYPE : NEAR MOHAD VILLAGE DOWN STEAM
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 0 1 N		2 1 0 1 N	
pH	1 0 3 0 2 N 7 . 4			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		2 2 0 1 N	
ALKALINITY, mg/L			2 2 0 2 N	
(1)ELECTROMETRIC	1 0 1 0 1 N		2 2 0 3 N	
(2)VISUAL TITRATION	1 0 1 0 2 N 1 0 4 . 0			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 . 7			
BOD, mg/l	0 8 2 0 1 N		2 1 0 1 N 1 0 2 . 0	
COD, mg/L	0 8 3 0 1 N 3 9 . 5 2		7 0 0 1 N	
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N 2 6 . 0		7 0 0 4 N	
(2)MERCURIMETRIC	1 7 2 0 1 N		2 1 0 1 N 1 0 2 . 0	
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 N		7 0 0 1 N	
(2)TURBIDIMETRIC	1 6 3 0 2 N		7 5 5 1 N	
SODIUM, mg/L	1 1 1 0 3 N		5 1 0 5 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 1 . 6			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 1 . 7 0			
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N			
TURBIDITY, JT/UNTU				
VELOCITY OF FLOW, m/sec				
(i)CURRENT METER				
(ii)FLOATE				
(iii)CHEMICAL				
TOTAL KJELDAHL NITROGEN, mg/L				
(i)TITRATION				
(ii)NESSELERIZATION				
HARDNESS as CaCO ₃ , mg/L				
TOTAL COLIFORM, MPN/100ml				
TOTAL DISSOLVED SOLIDS, mg/l				
FIXED DISSOLVED SOLIDS, mg/L				
AMMONIAM NITROGEN, mg/L				
(i)COLOURIMETRY				
(ii)DISTILLATION TITRATION				
BORON DISSOLVED, mg/L				
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLID mg/L				

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE 3 1 6 6
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY) 1 2 : 4 5 P M
 3. WEATHER Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE : AFTER CONFLUENCE OF SAMODA NALLA
 6. ODOUR None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT None Fishery Other COMPLETED BY : N. K. PATEL
 8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other VERIFIED BY : U.K.MANDAL
 9. LOCATION DETAIL U/s of Town or industrial Area D/s of Town of Industrial Area Abstraction For Water Supply

DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND	AQCFLAG		VALUE
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	
TEMPERATURE, °C	0 2 0 0 1 N						TURBIDITY, JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7	4				VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N						(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L							(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N						(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 3 2	0				TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N						(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6	7				(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N						HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 2 6	0
COD, mg/L	0 8 3 0 1 N	3 9	5 2				TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L							TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	3 2 0	0
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 6	0				FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N						AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L							(i)COLOURIMETRY	0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N						(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N						BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N						PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 9	6				NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 2	6 8				SUSPENDED SOLID mg/L		7 0	0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N									
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N									

R. O. C. E. B. BHILAI

U.K. Mandl

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 8 4 5
 1 2 1 0 1 7 1 1 0 : 4 5 A M

3. WEATHER
 Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY
 Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR
 None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
 None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION
 Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL
 U/s of Town or industrial Area Dis of Town of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT DURG
 TYPE : NEAR W/S INTAKE WELL POINT
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N		TURBIDITY, JTU/NTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N	7.5	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N		(i) CURRENT METER	0 2 2 0	1 N	
ALKALINITY, mg/L				(ii) FLOATE	0 2 2 0	2 N	
(1) ELECTROMETRIC	1 0 1 0	1 N		(iii) CHEMICAL	0 2 2 0	3 N	
(2) VISUAL TITRATION	1 0 1 0	2 N	9.8	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(i) TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	2	(ii) NESSELERIZATION	0 7 0 0	4 N	
BOD, mg/l	0 8 2 0	1 N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	0
COD, mg/L	0 8 3 0	1 N	6.4	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	290
(1) ARGENTOMETRIC	1 7 2 0	1 N	0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(2) MERCURIMETRIC	1 7 2 0	1 N		AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5	5 N	
(1) GRAVIMETRIC	1 6 3 0	1 N		(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N	
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	2.3	NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N		SUSPENDED SOLID, mg/L			50
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N					0
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 8 1 1 1 7 0 5 : 2 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: Cattle Wading Melon Farming Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Pilgrim Center/ Bath Gath Fising Other Abstraction For Water Supply
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area

STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 TYPE: HITKASA TAILING DAM, RESERVIIR
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCF		VALUE		DETERMINAND	ARBITRARY		AQCF		VALUE
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	CODE	CODE	
TEMPERATURE, °C	0 2 0 0	1 1 N					TURBIDITY, JT/UNTU	2 1 0 1				
pH	1 0 3 0	2 2 N	7	0 3			VELOCITY OF FLOW, m/sec					
CONDUCTIVITY, µghos/cm	0 2 0 4	1 1 N					(i)CURRENT METER	2 2 0 1	N			
ALKALINITY, mg/L							(ii)FLOATE	2 2 0 2	N			
(1)ELECTOMETRIC	1 0 1 0	1 1 N					(iii)CHEMICAL	2 2 0 3	N			
(2)VISUAL TITRATION	1 0 1 0	2 2 N	1 2 8	0			TOTAL KJELDAHL NITROGEN, mg/L					
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 5 N					(i)TITRATION	7 0 0 1	N			
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 1 N	6	2			(ii)NESSELERIZATION	7 0 0 4	N			
BOD, mg/l	0 8 2 0	1 1 N					HARDNESS as CaCO ₃ , mg/L	2 1 0 1	N			
COD, mg/L	0 8 3 0	1 1 N	1 2 4	8			TOTAL COLIFORM, MPN/100ml	7 0 0 1	N			
CHLORIDE, mg/L							TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 3	N 3 8 0			0
(1)ARGENTOMETRIC	1 7 2 0	1 1 N	5 8	0			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	N			
(2)MERCURIMETRIC	1 7 2 0	1 1 N					AMMONIAM NITROGEN, mg/L					
SULPHATE, mg/L							(i)COLOURIMETRY	7 5 5 5	N			
(1)GRAVIMETRIC	1 6 3 0	1 1 N					(ii)DISTILLATION TITRATION	7 5 5 1	N			
(2)TURBIDIMETRIC	1 6 3 0	2 2 N					BORON DISSOLVED, mg/L	5 1 0 5	N			
SODIUM, mg/L	1 1 1 0	3 3 N					PHOSPHATE, mg/L					
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 1 N	2 4	8			NITRITE mg/L					
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 3 N	8	2 9			SUSPENDED SOLI mg/L			1 1 0		0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 1 N										
INSTANTANEOUS DISCHARGE, m	9 7 1 6	7 7 N										

(Signature)
N. K. PATEL

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 1 1 1 7 0 2 : 4 5 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or industrial Area Dis of Town of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT RAJNANDGAON
 TYPE : NEAR MOHAD VILLAGE DOWN STEAM
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K. MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND	ARBITRARY		AQCFLAG		VALUE	
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	CODE	CODE	CODE	CODE
TEMPERATURE, °C	0 2	0 0	1 1	N			TURBIDITY, JT/UNTU	2	1 0	1 1	N		
pH	1 0	3 0	2 1	N	7	4	VELOCITY OF FLOW, m/sec						
CONDUCTIVITY, µghos/cm	0 2	0 4	1 1	N			(i)CURRENT METER	2	2 0	1 1	N		
ALKALINITY, mg/L							(ii)FLOATE	2	2 0	2 1	N		
(1)ELECTOMETRIC	1 0	1 0	1 1	N			(iii)CHEMICAL	2	2 0	3 1	N		
(2)VISUAL TITRATION	1 0	1 0	2 1	N	1 0	2 0	TOTAL KJELDAHL NITROGEN, mg/L	7	0 0	1 1	N		
NITROGEN(NO ₃ +NO ₂), mg/L	0 7	1 0	5 1	N			(i)TITRATION	7	0 0	1 1	N		
DISSOLVED OXYGEN, mg/L	0 8	1 0	1 1	N	7	2	(ii)NESSELERIZATION	7	0 0	4 1	N		
BOD, mg/l	0 8	2 0	1 1	N			HARDNESS as CaCO ₃ , mg/L	2	1 0	1 1	N	7 2	0
COD, mg/L	0 8	3 0	1 1	N	2 8	5 6	TOTAL COLIFORM, MPN/100ml	7	0 0	1 1	N		
CHLORIDE, mg/L							TOTAL DISSOLVED SOLIDS, mg/l	3	3 3	3 1	N	2 1	0 0
(1)ARGENTOMETRIC	1 7	2 0	1 1	N	3 2	0	FIXED DISSOLVED SOLIDS, mg/L	4	4 4	4 1	N		
(2)MERCURIMETRIC	1 7	2 0	1 1	N			AMMONIAM NITROGEN, mg/L						
SULPHATE, mg/L							(i)COLOURIMETRY	7	5 5	5 1	N		
(1)GRAVIMETRIC	1 6	3 0	1 1	N			(ii)DISTILLATION TITRATION	7	5 5	1 1	N		
(2)TURBIDIMETRIC	1 6	3 0	2 1	N			BORON DISSOLVED, mg/L	5	1 0	5 1	N		
SODIUM, mg/L	1 1	1 0	3 1	N			PHOSPHATE, mg/L						
CALCIUM as CaCO ₃ , mg/L	2 0	1 0	1 1	N	1 6	0	NITRITE mg/L						
MAGENESIUM as CaCO ₃ , mg/L	1 2	1 0	3 1	N	7	8	SUSPENDED SOLI mg/L					5 0	0
FECAL COLIFORM MPN/100ml	3 6	0 1	1 1	N									
INSTANTANEOUS DISCHARGE, m ³	9 7	1 6	7 1	N									

(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 1 0 1 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 1 1 1 7 0 1 : 4 5 A M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other Abstraction For Water Supply
 9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of industrial Area

STATION : RIVER SHEONATH AT
 RAJNANDGAON
 TYPE : NEAR W/S INTAKE-WELL POINT
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K.MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 0 1 N		TURBIDITY, JTU/NTU	0 2 1 0 1 N
pH	1 0 3 0 2 N	7. 4	VELOCITY OF FLOW, m/sec	
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		(i)CURRENT METER	0 2 2 0 1 N
ALKALINITY, mg/L			(ii)FLOATE	0 2 2 0 2 N
(1)ELECTOMETRIC	1 0 1 0 1 N		(iii)CHEMICAL	0 2 2 0 3 N
(2)VISUAL TITRATION	1 0 1 0 2 N		TOTAL KJELDAHL NITROGEN, mg/L	
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N		(i)TITRATION	0 7 0 0 1 N
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7. 2	(ii)NESSELERIZATION	0 7 0 0 4 N
BOD, mg/l	0 8 2 0 1 N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N 7 2. 0
CHLORIDE, mg/L	0 8 3 0 1 N	1 9. 0 4	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N
(1)ARGENTOMETRIC		2 8. 0	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 8 0. 0
(2)MERCURIMETRIC	1 7 2 0 1 N		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N
SULPHATE, mg/L	1 7 2 0 1 N		AMMONIAM NITROGEN, mg/L	
(1)GRAVIMETRIC	1 6 3 0 1 N		(i)COLOURIMETRY	0 7 5 5 5 N
(2)TURBIDIMETRIC	1 6 3 0 2 N		(ii)DISTILLATION TITRATION	0 7 5 5 1 N
SODIUM, mg/L	1 1 1 0 3 N		BORON DISSOLVED, mg/L	0 5 1 0 5 N
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	1 6. 0	PHOSPHATE, mg/L	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N		NITRITE mg/L	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N		SUSPENDED SOLID, mg/L	3 0. 0
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 1 1 1 7 0 2 : 4 8 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 9. LOCATION DETAIL: U/s of Town or industrial area D/s of Town or industrial area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER KHAROON AT DURG
 TYPE : UP STEAM NEAR DURG- RAIPUR ROAD - BRIDGE
 COMPLETED BY : N. K. PATEL
 VERIFIED BY : U.K.MANDAL
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7.4		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 1 2.0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7.2		(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 0 0.0	
COD, mg/L	0 8 3 0 1 N	2 8.5 6		TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	2 2 0.0	
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 2.0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2.4		NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 0.7 3		SUSPENDED SOLID, mg/L		4 0.0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						

N. K. Patel

N. K. Patel

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 1 1 1 7 0 3 : 4 5 P M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town or Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER KHAROON AT DURG
TYPE: AFTER KHAPRI NALLA
COMPLETED BY: N. K. PATEL
VERIFIED BY: U.K. MANDAL
AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND	AQCFLAG		VALUE
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	
TEMPERATURE, °C	0 2 0 0 1 N						TURBIDITY, JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7	5			VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N					(i)CURRENT METER	0 2 2 0 1 N			
ALKALINITY, mg/L						(ii)FLOATE	0 2 2 0 2 N			
(1)ELECTOMETRIC	1 0 1 0 1 N					(iii)CHEMICAL	0 2 2 0 3 N			
(2)VISUAL TITRATION	1 0 1 0 2 N	1 1 6	0			TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N					(i)TITRATION	0 7 0 0 1 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7	2			(ii)NESSELERIZATION	0 7 0 0 4 N			
BOD, mg/l	0 8 2 0 1 N					HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 0 6	0	
COD, mg/L	0 8 3 0 1 N	2 8	5 6			TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N			
CHLORIDE, mg/L						TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	2 2 0	0	
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 4	0			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N			
(2)IMERCURIMETRIC	1 7 2 0 1 N					AMMONIAM NITROGEN, mg/L				
SULPHATE, mg/L						(i)COLOURIMETRY	0 7 5 5 5 N			
(1)GRAVIMETRIC	1 6 3 0 1 N					(ii)DISTILATION TITRATION	0 7 5 5 1 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N					BORON DISSOLVED, mg/L	0 5 1 0 5 N			
SODIUM, mg/L	1 1 1 0 3 N					PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 4	0			NITRITE mg/L				
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1	2 1			SUSPENDED SOLID, mg/L			5 0	0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N									
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N									

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE 3 1 6 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 2 1 1 1 7 1 2 : 4 0 P M

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE : AFTER CONFLUENCE OF SAMODA NALLA

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL

U/s of Town or industrial Area	D/s of Town of Industrial Area	Pilgrim Center/ Bath Gath	Abstraction For Water Supply

DETERMINAND	WHO		AQCF		VALUE		DETERMINAND	ARBITRARY		VALUE		
	CODE	QC	QC	FLAG	CODE	QC		QC	FLAG	CODE	QC	FLAG
TEMPERATURE, °C	0 2 0	0 1 N					TURBIDITY, JTU/NTU	0 2 1	0 1 N			
pH	1 0 3	0 2 N	7	4			VELOCITY OF FLOW, m/sec					
CONDUCTIVITY, µghos/cm	0 2 0	4 1 N					(i) CURRENT METER	0 2 2	0 1 N			
ALKALINITY, mg/L							(ii) FLOATE	0 2 2	0 2 N			
(1) ELECTOMETRIC	1 0 1	0 1 N					(iii) CHEMICAL	0 2 2	0 3 N			
(2) VISUAL TITRATION	1 0 1	0 2 N	1 3	0	0		TOTAL KJELDAHL NITROGEN, mg/L					
NITROGEN (NO ₃ +NO ₂), mg/L	0 7 1	0 5 N					(i) TITRATION	0 7 0	0 1 N			
DISSOLVED OXYGEN, mg/L	0 8 1	0 1 N	6	8			(ii) NESSELERIZATION	0 7 0	0 4 N			
BOD, mg/l	0 8 2	0 1 N					HARDNESS as CaCO ₃ , mg/L	2 2 1	0 1 N	1 1 8	0	
COD, mg/L	0 8 3	0 1 N	3 8	0 8			TOTAL COLIFORM, MPN/100ml	3 7 0	0 1 N			
CHLORIDE, mg/L							TOTAL DISSOLVED SOLIDS, mg/L	3 3 3	3 3 N	2 2 0	0	
(1) ARGENTOMETRIC	1 7 2	0 1 N	4 2	0			FIXED DISSOLVED SOLIDS, mg/L	4 4 4	4 4 N			
(2) MERCURIMETRIC	1 7 2	0 1 N					AMMONIAM NITROGEN, mg/L					
SULPHATE, mg/L							(i) COLOURIMETRY	0 7 5	5 5 N			
(1) GRAVIMETRIC	1 6 3	0 1 N					(ii) DISTILLATION TITRATION	0 7 5	5 1 N			
(2) TURBIDIMETRIC	1 6 3	0 2 N					BORON DISSOLVED, mg/L	0 5 1	0 5 N			
SODIUM, mg/L	1 1 1	0 3 N					PHOSPHATE, mg/L					
CALCIUM as CaCO ₃ , mg/L	2 0 1	0 1 N	2 1	6			NITRITE mg/L					
MAGENESIUM as CaCO ₃ , mg/L	1 2 1	0 3 N	1 5	6			SUSPENDED SOLID, mg/L			6 0	0	
FECAL COLIFORM MPN/100ml	3 6 0	1 1 N										
INSTANTANEOUS DISCHARGE, m	9 7 1	6 7 N										

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDATI/GLOWDAT

1. STATION CODE: 1 8 4 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 1 1 1 7 1 0 : 5 0 A M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION : RIVER SHEONATH AT DURG
TYPE : NEAR W/S INTAKE WELL POINT
COMPLETED BY : N. K. PATEL
VERIFIED BY : U.K. MANDAL
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	ARBITRARY			
				CODE	AQCFLAG	VALUE	
TEMPERATURE, °C	0 2 0 0	1 N		0	2 1 0	1 N	
pH	1 0 3 0	2 N	7.5				
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N		0	2 2 0	1 N	
ALKALINITY, mg/L				0	2 2 0	2 N	
(1)ELECTOMETRIC	1 0 1 0	1 N		0	2 2 0	3 N	
(2)VISUAL TITRATION	1 0 1 0	2 N	0.6				
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N					
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7.2				
BOD, mg/l	0 8 2 0	1 N					
COD, mg/L	0 8 3 0	1 N	9.0	3	7 0 0	1 N	
CHLORIDE, mg/L							
(1)ARGENTOMETRIC	1 7 2 0	1 N	3.8				
(2)MERCURIMETRIC	1 7 2 0	1 N					
SULPHATE, mg/L							
(1)GRAVIMETRIC	1 6 3 0	1 N					
(2)TURBIDIMETRIC	1 6 3 0	2 N					
SODIUM, mg/L	1 1 1 0	3 N					
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	6.0				
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N					
FECAL COLIFORM MPNI/100ml	3 6 0 1	1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N					
TURBIDITY, JTU/NTU							
VELOCITY OF FLOW, m/sec							
(1)CURRENT METER				0	2 2 0	1 N	
(1)FLOATE				0	2 2 0	2 N	
(11)CHEMICAL				0	2 2 0	3 N	
TOTAL KJELDAHL NITROGEN, mg/L							
(1)TITRATION				0	7 0 0	1 N	
(11)NESSELERIZATION				0	7 0 0	4 N	
HARDNESS as CaCO ₃ , mg/L				2	2 1 0	1 N	8.6
TOTAL COLIFORM, MPNI/100ml				3	7 0 0	1 N	
TOTAL DISSOLVED SOLIDS, mg/L				3	3 3 3	3 N	15.0
FIXED DISSOLVED SOLIDS, mg/L				4	4 4 4	4 N	
AMMONIAM NITROGEN, mg/L							
(1)COLOURIMETRY				0	7 5 5	5 N	
(11)DISTILLATION TITRATION				0	7 5 5	1 N	
BORON DISSOLVED, mg/L				0	5 1 0	5 N	
PHOSPHATE, mg/L							
NITRITE mg/L							
SUSPENDED SOLID, mg/L							30.0

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 2 1 1 1 7 0 5 : 1 5 P M

3. WEATHER Clody Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL U/s of Town or Industrial Area D/s of Town of Industrial Area Bath Gath Abstraction For Water Supply

STATION : NEHRU NAGAR TALAB
Bhilai Dist. Durg
COMPLETED BY : N. K. PATEL
VERIFIED BY : U.K. MANDAL
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO			ARBITRARY		
	CODE	AQCFLAG	VALUE	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 1 N			2 1 0 1 N		
pH	1 0 3 0 2 N	7 . 5				
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			2 2 0 1 N		
ALKALINITY, mg/L				2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N			2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 7 4 . 0				
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N					
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6 . 8				
BOD, mg/l	0 8 2 0 1 N					
COD, mg/L	0 8 3 0 1 N	1 2 3 . 7 6				
CHLORIDE, mg/L						
(1)ARGENTOMETRIC	1 7 2 0 1 N	8 4 . 0				
(2)MERCURIMETRIC	1 7 2 0 1 N					
SULPHATE, mg/L						
(1)GRAVIMETRIC	1 6 3 0 1 N					
(2)TURBIDIMETRIC	1 6 3 0 2 N					
SODIUM, mg/L	1 1 1 0 3 N					
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	3 4 . 4				
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 0 . 7 3				
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N					
TURBIDITY, JTU/NTU						
VELOCITY OF FLOW, m/sec						
(i)CURRENT METER						
(ii)FLOATE						
(iii)CHEMICAL						
TOTAL KjELDAHL NITROGEN, mg/L						
(i)TITRATION						
(ii)NESSELERIZATION						
HARDNESS as CaCO ₃ , mg/L						
TOTAL COLIFORM, MPN/100ml						
TOTAL DISSOLVED SOLIDS, mg/l						
FIXED DISSOLVED SOLIDS, mg/L						
AMMONIAM NITROGEN, mg/L						
(i)COLOURIMETRY						
(ii)DISTILATION TITRATION						
BORON DISSOLVED, mg/L						
PHOSPHATE, mg/L						
NITRITE mg/L						
SUSPENDED SOLID mg/L						6 0 . 0

N. K. Patel

U.K. Mandal

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/ GLOWDAT

1. STATION CODE

8 1 2 8
 (DD/MM/YY) 20 1 2 1 7

2. DATE & TIME OF SAMPLE TAKEN

0 1 : 1 0 P M

3. WEATHER

Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50-100cm. >100cm. Flood

STATION : I HAND PUMP WATER

5. COLOUR & INTENSITY

Clear Turbid Green Brown 1=light 2=Moderate 3=High

TYPE : SHANKAR NAGAR, H.I.A., BHILAI

6. ODOUR

None Fishy H₂S Other

COMPLETED BY : N.K. PATEL

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT

None Moderate High

VERIFIED BY : U.K.MANDAL

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing Other

AGENCY : R. O. C. E. C. B. BHILAI

9. LOCATION DETAIL

U/S of Town or Industrial Area D/S of Town of Pilgrim Center Abstraction For Industrial Area Bathing Ghat Water Supply PPI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	AQCFLAG	VALUE	ARBITRARY	
							CODE	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/UNTU	0 2 1 0 1 N			
pH	1 0 3 0 2 N	7.	5 2	VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N			
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N			
(1)ELECTROMETRIC	1 0 1 0 1 N	9 8.	0	(iii)CHEMICAL	0 2 2 0 3 N			
(2)VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6.	0	(ii)MESSELERIZATION	0 7 0 0 4 N			
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	9 8.	0	
COD, mg/L	0 8 3 0 1 N	2 8.	8	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N			
CHLORIDE, mg/L		4 2.	0	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	1 1 0.	0	
(1)ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N			
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIUM NITROGEN, mg/L				
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5 5 N			
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	0 7 5 5 1 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N			
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 0.	8	NITRITE mg/L				
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1.	2 1	SUSPENDED SOLID, mg/L			3 0.	0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N							
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N							

Meloni

MINDAT

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 5 1 2 1 7 0 4 : 3 0 P M

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High TYPE: TALAB WATER

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL U/s of Town or industrial Area D/s of Town of industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: NEHRU NAGAR TALAB
BHILAI DIST. DURG

COMPLETED BY: N. K. PATEL
VERIFIED BY: U.K. MANDAL
AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 0 1 N		2 1 0 1 N	
pH	1 0 3 0 2 N 7 . 4 3			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		2 2 0 1 N	
ALKALINITY, mg/L			2 2 0 2 N	
(1)ELECTOMETRIC	1 0 1 0 1 N		2 2 0 3 N	
(2)VISUAL TITRATION	1 0 1 0 2 N 1 7 6 . 0			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 . 7			
BOD, mg/l	0 8 2 0 1 N			
COD, mg/L	0 8 3 0 1 N 1 6 1 . 8 4			
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N 8 2 . 0			
(2)MERCURIMETRIC	1 7 2 0 1 N			
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 N		7 5 5 5 N	
(2)TURBIDIMETRIC	1 6 3 0 2 N		7 5 5 1 N	
SODIUM, mg/L	1 1 1 0 3 N		5 1 0 5 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 3 4 . 4			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 8 . 5 3			
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N			
TURBIDITY, JT/UNTU				
VELOCITY OF FLOW, m/sec				
(i)CURRENT METER				
(ii)FLOATE				
(iii)CHEMICAL				
TOTAL KJELDAHL NITROGEN, mg/L				
(i)TITRATION				
(ii)NESSELERIZATION				
HARDNESS as CaCO ₃ , mg/L				
TOTAL COLIFORM, MPN/100ml				
TOTAL DISSOLVED SOLIDS, mg/L				
FIXED DISSOLVED SOLIDS, mg/L				
AMMONIAM NITROGEN, mg/L				
(i)COLOURIMETRY				
(ii)DISTILLATION TITRATION				
BORON DISSOLVED, mg/L				
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLID mg/L				

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDATI/GLOWDAT

1. STATION CODE: 1 8 4 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 5 1 2 1 7 1 0 : 4 0 A M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial Area Dis of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER SHEONATH AT DURG
TYPE: NEAR W/S INTAKE WELL POINT
COMPLETED BY: N. K. PATEL
VERIFIED BY: U.K. MANDAL
AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCFLAG		VALUE		DETERMINAND		AQCFLAG		VALUE	
	CODE	CODE	CODE	CODE	VALUE	VALUE	CODE	CODE	CODE	CODE	VALUE	VALUE
TEMPERATURE, °C	0 2 0 0	1 N					TURBIDITY, JT/UNTU	0 2 1 0	1 N			
pH	1 0 3 0	2 N	7	5			VELOCITY OF FLOW, m/sec					
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N					(i)CURRENT METER	0 2 2 0	1 N			
ALKALINITY, mg/L							(ii)FLOATE	0 2 2 0	2 N			
(1)ELECTOMETRIC	1 0 1 0	1 N					(iii)CHEMICAL	0 2 2 0	3 N			
(2)VISUAL TITRATION	1 0 1 0	2 N	9	8	0		TOTAL KJELDAHL NITROGEN, mg/L					
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N					(i)TITRATION	0 7 0 0	1 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7	2			(ii)NESSELERIZATION	0 7 0 0	4 N			
BOD, mg/l	0 8 2 0	1 N					HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	1 0	2	0
COD, mg/L	0 8 3 0	1 N	1	9	0	4	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N			
CHLORIDE, mg/L							TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	1 9	0	0
(1)ARGENTOMETRIC	1 7 2 0	1 N	4	2	0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N			
(2)MERCURIMETRIC	1 7 2 0	1 N					AMMONIAM NITROGEN, mg/L					
SULPHATE, mg/L							(i)COLOURIMETRY	0 7 5 5	5 N			
(1)GRAVIMETRIC	1 6 3 0	1 N					(ii)DISTILATION TITRATION	0 7 5 5	1 N			
(2)TURBIDIMETRIC	1 6 3 0	2 N					BORON DISSOLVED, mg/L	0 5 1 0	5 N			
SODIUM, mg/L	1 1 1 0	3 N					PHOSPHATE, mg/L					
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	1	9	2		NITRITE mg/L					
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N					SUSPENDED SOLID, mg/L			3 0	0	0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N										
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N										

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE

3 1 6 6
1 5 1 2 1 7 1 2 : 5 5 P M

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

Cloudy Windy Clear Raining

STATION: RIVER SHEONATH AT
JHINJHRI VILLAGE ,DJURG

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY

Clear Turbid Green Brown 1=light 2=Moderate 3=High

TYPE : AFTER CONFLUENCE OF
SAMODA NALLA

6. ODOUR

None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishery Other

COMPLETED BY : N. K. PATEL

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fising Other

VERIFIED BY : U.K.MANDAL

9. LOCATION DETAIL

U/s of Town or industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

AGENCY : R. O. C. E. C. B. BHILAI

WHO

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N		
pH	1 0 3 0 2 N	7 . 4 2	
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		
ALKALINITY, mg/L			
(1)ELECTOMETRIC	1 0 1 0 1 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 3 6 . 0	
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6 . 8	
BOD, mg/l	0 8 2 0 1 N		
COD, mg/L	0 8 3 0 1 N	2 8 . 5 6	
CHLORIDE, mg/L			
(1)ARGENTOMETRIC	1 7 2 0 1 N	6 8 . 0	
(2)MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1)GRAVIMETRIC	1 6 3 0 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 0 . 0	
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 5 . 1 2	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N		

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TURBIDITY, JT/UNTU	0 2 1 0 1 N		
VELOCITY OF FLOW, m/sec			
(i)CURRENT METER	0 2 2 0 1 N		
(ii)FLOATE	0 2 2 0 2 N		
(iii)CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(i)TITRATION	0 7 0 0 1 N		
(ii)NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 1 2 . 0	
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	2 2 0 . 0	
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
AMMONIAM NITROGEN, mg/L			
(i)COLOURIMETRY	0 7 5 5 5 N		
(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE mg/L			
SUSPENDED SOLID, mg/L		7 0 . 0	

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE

1 8 4 6
1 9 1 2 1 7 0 3 : 4 0 P M

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL U/S of Town of D/s of Town of Pilgrim Center/ Other

Industrial Area Industrial Area Bath Gath Water Supply

STATION : RIVER KHARON AT DURG

TYPE : AFTER KHAPRI NALLA

COMPLETED BY : N. K. PATEL

VERIFIED BY : U.K. MANDAL

AGENCY : R. O. C. E. C. B. BHILAI

WHO DETERMINAND CODE AQCFLAG VALUE DETERMINAND CODE AQCFLAG VALUE

TEMPERATURE, °C	0 2 0 0 1 N				TURBIDITY, JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7 . 5			VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N				(i)CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L					(ii)FLOATE	0 2 2 0 2 N		
(1)ELECTOMETRIC	1 0 1 0 1 N				(iii)CHEMICAL	0 2 2 0 3 N		
(2)VISUAL TITRATION	1 0 1 0 2 N	1 1 2 . 0			TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N				(i)TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7 . 0			(ii)NESSELERIZATION	0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N				HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 0 4 . 0	
COD, mg/L	0 8 3 0 1 N	3 0 . 4 6			TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	1 9 0 . 0	
(1)ARGENTOMETRIC	1 7 2 0 1 N	5 2 . 0			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N				AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L					(i)COLOURIMETRY	0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N				(ii)DISTILLATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N				BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N				PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 0 . 0			NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 3 . 1 7			SUSPENDED SOLID, mg/L		5 0 . 0	
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N							
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N							

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 9 1 2 1 7 0 2 : 5 5 P M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial area D/s of Town or industrial area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER KHAROON AT DURG
 TYPE: UP STEAM NEAR DURG- RAIPUR ROAD - BRIDGE

COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N		TURBIDITY, JTUNTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N	7.4	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µhos/cm	0 2 0 4	1 N		(i) CURRENT METER	0 2 2 0	1 N	
ALKALINITY, mg/L				(ii) FLOATE	0 2 2 0	2 N	
(1) ELECTOMETRIC	1 0 1 0	1 N		(iii) CHEMICAL	0 2 2 0	3 N	
(2) VISUAL TITRATION	1 0 1 0	2 N	9.4	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(i) TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	8	(ii) NESSELERIZATION	0 7 0 0	4 N	
BOD, mg/l	0 8 2 0	1 N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	0 2 0
COD, mg/L	0 8 3 0	1 N	2 8.5 6	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	1 9 0 0
(1) ARGENTOMETRIC	1 7 2 0	1 N	4 2 0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(2) MERCURIMETRIC	1 7 2 0	1 N		AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5	5 N	
(1) GRAVIMETRIC	1 6 3 0	1 N		(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N	
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	1 9.2	NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 3.1 7	SUSPENDED SOLID, mg/L			4 0 0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N					

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(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 1 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY): 1 5 1 2 1 7 0 4 : 0 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area

STATION : RIVER SHEONATH AT
RAJNANDGAON

TYPE : NEAR MOHAD VILLAGE DOWN STEAM
COMPLETED BY : N. K. PATEL

VERIFIED BY : U.K. MANDAL
AGENCY : R. O. C. E. C. B. BHILAI

U/s of Town or Industrial Area	<input checked="" type="checkbox"/>	D/s of Town of Industrial Area	<input type="checkbox"/>
Pilgrim Center/ Bath Gath	<input type="checkbox"/>	Abstraction For Water Supply	<input type="checkbox"/>

DETERMINAND	WHO		AQCF		VALUE	DETERMINAND	ARBITRARY		VALUE
	CODE	AQCF	CODE	AQCF			CODE	AQCF	
TEMPERATURE, °C	0 2 0 0 1 N					TURBIDITY, JT/UNTU	2 1 0 1 N		
pH	1 0 3 0 2 N	7.	4		VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N				(i)CURRENT METER	2 2 0 1 N			
ALKALINITY, mg/L					(ii)FLOATE	2 2 0 2 N			
(1)ELECTOMETRIC	1 0 1 0 1 N				(iii)CHEMICAL	2 2 0 3 N			
(2)VISUAL TITRATION	1 0 1 0 2 N	1 1 2.	0		TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N				(i)TITRATION	7 0 0 1 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7.	2		(ii)NESSELERIZATION	7 0 0 4 N			
BOD, mg/l	0 8 2 0 1 N				HARDNESS as CaCO ₃ , mg/L	2 1 0 1 N	1 0 2.	0	
COD, mg/L	0 8 3 0 1 N	2 8.	8		TOTAL COLIFORM, MPN/100ml	7 0 0 1 N			
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 N	2 1 0.	0	
(1)ARGENTOMETRIC	1 7 2 0 1 N	5 2.	0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 N			
(2)MERCURIMETRIC	1 7 2 0 1 N				AMMONIAM NITROGEN, mg/L				
SULPHATE, mg/L					(i)COLOURIMETRY	7 5 5 N			
(1)GRAVIMETRIC	1 6 3 0 1 N				(ii)DISTILLATION TITRATION	7 5 5 1 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N				BORON DISSOLVED, mg/L	5 1 0 5 N			
SODIUM, mg/L	1 1 1 0 3 N				PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 0.	8		NITRITE mg/L				
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 2.	1 9		SUSPENDED SOLI mg/L			4 0.	0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N								
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N								

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 1 0 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 5 1 2 1 7 0 1 : 3 0 P M

3. WEATHER: Cloudy Windy Clear Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other

9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER SHEONATH AT RAJNANDGAON
 TYPE: NEAR W/S INTAKE-WELL POINT
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQFLAG	VALUE	DETERMINAND	AQFLAG	VALUE	ARBITRARY	
							CODE	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			TURBIDITY, JT/NTU	0 2 1 0 1 N			
pH	1 0 3 0 2 N	7 . 3 4		VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			(i)CURRENT METER	0 2 2 0 1 N			
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2 N			
(1)ELECTOMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N			
(2)VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			(i)TITRATION	0 7 0 0 1 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7 . 4		(ii)NESSELERIZATION	0 7 0 0 4 N			
BOD, mg/l	0 8 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1 0 0 . 0		
COD, mg/L	0 8 3 0 1 N	1 9 . 2		TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N			
CHLORIDE, mg/L		4 8 . 0		TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 N	1 9 0 . 0		
(1)ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N			
(2)MERCURIMETRIC	1 7 2 0 1 N			AMMONIAM NITROGEN, mg/L				
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5 N			
(1)GRAVIMETRIC	1 6 3 0 1 N			(ii)DISTILLATION TITRATION	0 7 5 5 1 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	0 5 1 0 5 N			
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 0 . 8		NITRITE mg/L				
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N			SUSPENDED SOLID, mg/L		4 0 . 0		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N							
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N							

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDATI/GLOWDAT

1. STATION CODE: 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 8 1 2 1 7 0 4 : 2 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other Pilgrim Center/ Bath Gath Abstraction For Water Supply
 9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of industrial Area

STATION: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 TYPE: HITKASA TAILING DAM, RESERVIIR
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 0 1 N			
pH	1 0 3 0 2 N	7 . 9 2		
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N			
ALKALINITY, mg/L	1 0 1 0 1 N			
(1)ELECTOMETRIC	1 0 1 0 2 N	1 3 2 . 0		
(2)VISUAL TITRATION	0 7 1 0 5 N			
NITROGEN(NO ₃ +NO ₂), mg/L	0 8 1 0 1 N	6 . 2		
DISSOLVED OXYGEN, mg/L	0 8 2 0 1 N			
BOD, mg/l	0 8 3 0 1 N	1 3 4 . 4		
COD, mg/L				
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N	6 2 . 0		
(2)MERCURIMETRIC	1 7 2 0 1 N			
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N			
SODIUM, mg/L	1 1 1 0 3 N			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 4 . 6		
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	8 . 2 9		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N			
TURBIDITY, JTU/INTU			2	1 0 1 N
VELOCITY OF FLOW, m/sec				
(i)CURRENT METER			2	2 0 1 N
(ii)FLOATE			2	2 0 2 N
(iii)CHEMICAL			2	2 0 3 N
TOTAL KJELDAHL NITROGEN, mg/L				
(i)TITRATION			7	0 0 1 N
(ii)NESSELERIZATION			7	0 0 4 N
HARDNESS as CaCO ₃ , mg/L			2	1 0 1 N
TOTAL COLIFORM, MPN/100ml			7	0 0 1 N
TOTAL DISSOLVED SOLIDS, mg/l			3	3 3 3 N
FIXED DISSOLVED SOLIDS, mg/L			4	4 4 4 N
AMMONIAM NITROGEN, mg/L				
(i)COLOURIMETRY			7	5 5 5 N
(ii)DISTILLATION TITRATION			7	5 5 1 N
BORON DISSOLVED, mg/L			5	1 0 5 N
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLI mg/L				1 1 0 . 0

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1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
3 1 7 0

MINARS / GEMS

Annexure-VI

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 7 0 1 1 7

3. WEATHER

Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. > 100 cm. Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown 1 Light 2 Moderate 3 High
None FISHY H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading D/S of Tower of Industrial Area
Fishing Abstraction for Water Supply
Pilgrim Centre Bathing Ghat

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N	2 5 8	
pH	1 0 3 0 2 N	7 1 6	
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 7 0 0	
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N	0 4	
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N	6 8	
B.O.D. mg/L	0 8 2 0 1 N	0 4	
C.O.D. mg/L	0 8 3 0 1 N	6 0	
CHLORIDE mg/L		N 1 8 9 9	
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L		N 8 0	
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N	3 6 0	
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N	2 8 0	
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

Analysed By

Chemist

Regional officer

MINDA T/GLOW DAT

STATION- Drinking Water intake well of Municipal cop. Korba after treatment plant at kohadia village Korba.

TYPE- River Water

COMPLETED BY- B.P. Mishra & S. Singh, Lab. Asst.-II
VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba
Other

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JT/UNTU	0 2 1 0 1 N		
VELOCITY OF FLOW. m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOT	0 2 2 0 2 N		
(iii)CHEMICAL	0 2 2 0 3 N		
TOTAL KILDAHL NITROGEN mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	6 4 0	
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	2 1 4 0	
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L			
NITRITE mg/L		0 4	
		0 0 4	

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS _____ Annexure-VI

1. STATION CODE

3 1 6 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 7 0 1 1 7

3. WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	> 100 cm.	> 100 cm.	Flood

4. APPROX DEPTH OF MAIN STREAM

M I N D A T / G L O W D A T

STATION- Drinking Water intake well of Municipal cop. Korba before treatment plant at kohadia village Korba.
TYPE- River Water

5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2= Moderate	3= High
None	Fishy	H-S	Other	None	Moderate	High

COMPLETED BY - B.P. Mishra ,
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

Melon farming
Pilgrim-Centre/
Bathing Ghat

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading	Fishing
D/S of Town of Industrial Area	Abstraction for Water Supply

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 7		
pH	1 0 3 0 2 N 7 1 4		
CONDUCTIVITY µmhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L	N 6 8 0		
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 6		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6 0		
B.O.D. mg/L	0 8 2 0 1 N 1 4		
C.O.D mg/L	0 8 3 0 1 N 1 2 0		
CHLORIDE mg/L	N 1 6 9 9		
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L	N 1 0 0		
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 0 0		
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 2 0		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JTU/NTU	0 2 1 0 1 N		
VELOCITY OF FLOW, m/sec		N	
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KILDAHL NITROGEN mg/L		N	
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 2 0		
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 5 3 0		
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L		0 7	
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L		0 8	
NITRITE mg/L		0 0 5	

Analysed By
Bhaskar

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

1. STATION CODE

3 1 6 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 7 0 1 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. >100cm Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Brown Light 2 Moderate 3 High
None Fishy HgS Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon farming Fishing

9. LOCATION DETAIL

U/S of Town of D/S of Town of Industrial Area Industrial Area Bathing Ghat Abstraction for Water Supply

STATION- 100 Meter Down Stream after confluence of Dengumallah near CSEB (E) Guest House Korba
TYPE- River Water

COMPLETED BY- B.P.Mishra Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Conservation Board, Korba

Other

M I N D A T / G L O W D A T

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 6		
pH	1 0 3 0 2 N 7 1 4		
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 7 2 0	
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 7		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6 2		
B.O.D. mg/L	0 8 2 0 1 N 2 0		
C.O.D mg/L	0 8 3 0 1 N 1 8 0		
CHLORIDE mg/L		N 1 8 9 9	
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L		N 1 0 0	
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 6 0		
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 2 8 0		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JTU/NTU	0 2 1 0 1 N		
VELOCITY OF FLOW. m/sec		N	
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KjLDahl NITROGEN mg/L		N	
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 4 0		
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 9 5 0		
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L		0 8	
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L		0 5	
NITRITE mg/L		0 0 6	

Analysed By

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1	1	0	5
2	8	0	1
1	2	2	5

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

Cloudy	Clear	Windy	Raining
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4. APPROX DEPTH OF MAIN STREAM

< 50 cm.	50-100 cm.	> 100cm	Flood
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5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2	2	High
None	Fishy	H ₂ S	Other				

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
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8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading	Melon farming	Fishing
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9. LOCATION DETAIL

U/S of Town of Industrial Area	D/S of Town of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply
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ARBITRARY

DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAD	CODE	AQFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N	2 5 . 5	TURBIDITY JTU/NTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N	7 . 1 3	VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N		(i) CURRENT METER	0	2 2 0 1 N	
ALKALINITY mg/L				(ii) FLOT	0	2 2 0 2 N	
(i) ELECTROMETRIC	1	0 1 0 1 N		(iii) CHEMICAL	0	2 2 0 3 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N		TOTAL KJLDAHL NITROGEN mg/L			
Nitrate Nitrogen (NO ₃) mg/L	0	7 1 0 5 N	0 . 4	(i) TITRATION	0	7 0 0 1 N	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N	7 . 0	(ii) NESSELERIZATION	0	7 0 0 4 N	
B.O.D. mg/L	0	8 2 0 1 N	0 . 8	HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N	6 . 0
C.O.D. mg/L	0	8 3 0 1 N	1 0 . 0	TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N	2 6 2 . 0
(i) ARGENTOMETRIC	1	7 2 0 1 N		FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N		AMMONICAL NITROGEN mg/L			
SULPHATE mg/L				(i) COLOURIMETRY	0	7 5 5 5 N	0 . 5
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N		BORON DISSOLVED mg/L	0	5 1 0 5 N	
SODIUM mg/L	1	1 1 0 3 N		PHOSPHATE mg/L			
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N	3 8 . 0	NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N	2 8 . 0				
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3 1 6 8

0 2 1 0

2 7 0 1 1 7

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	> 100cm	Flood

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Brown	1 - Eight	2 - Moderate	3 - High
None	Fisity	H ₂ S	Other		

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
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8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading	Meloa farming	Fishing
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9. LOCATION DETAIL

U/S of Town of Industrial Area	D/S of Town of Industrial Area	Pilgrim-Centre/ Bathing Ghat	Abstraction for Water Supply
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ARBITRARY

DETERMINAND	CODE	AQCLAG				VALUE				DETERMINAD	CODE	AQCLAG				VALUE			
TEMPERATURE	0	2	0	0	1	2	5	8	TURBIDITY JTU/NTU	0	2	1	0	1	N				
pH	1	0	3	0	2	N	7	1	VELOCITY OF FLOW. m/sec					N					
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N			(i) CURRENT METER	0	2	0	1	N					
ALKALINITY mg/L						N	7	8	(ii) FLOT	0	2	0	2	N					
(i) ELECTROMETRIC	1	0	1	0	1	N			(iii) CHEMICAL	0	2	0	3	N					
(ii) VISUAL TITRATION	1	0	1	0	2	N			TOTAL KJLDAHL NITROGEN mg/L					N					
Nitrate NITROGEN (NO ₃) mg/L	0	7	1	0	5	N	0	8	(i) TITRATION	0	7	0	0	1	N				
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	5	8	(ii) NESSELERIZATION	0	7	0	0	4	N				
B.O.D. mg/L	0	8	2	0	1	N	2	4	HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	6	6		
C.O.D mg/L	0	8	3	0	1	N	2	0	TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N				
CHLORIDE mg/L						N	2	1	TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	N	3	0	2		
(i) ARGENTOMETRIC	1	7	2	0	1	N			FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	N					
(ii) MERCURIMETRIC	1	7	2	0	1	N			AMMONICAL NITROGEN mg/L						1	0			
SULPHATE mg/L						N	1	4	(i) COLOURIMETRY	0	7	5	5	N					
(i) GRAVIMETRIC	1	6	3	0	1	N			(ii) DISTILLATION TITRATION	0	7	5	5	N					
(ii) TURBIDIMETRIC	1	6	3	0	2	N			BORON DISSOLVED mg/L	0	5	1	0	N					
SODIUM mg/L	1	1	1	0	3	N			PHOSPHATE mg/L						0	8			
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N	3	2	NITRITE mg/L						0	0	8		
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N	3	4											
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N													
INSTANTANEOUS DISCHARGE M ³ /s																			

Analysed By

Chemist

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES														
3	1	7	7	0	2	3	0	2	1	7	1	2	4	5

MINARS / GEMS Annexure-VI

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2	3	0	2	1	7
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M I N D A T / G L O W D A T

3. WEATHER

Cloudy	Clear	Windy	Raining
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STATION- Drinking Water intake well of Municipal cop. Korba after treatment plant at kohadia village Korba .

4. APPROX DEPTH OF MAIN STREAM

< 50 cm.	50-100 cm.	> 100cm	—flood
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TYPE- River Water

5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown 1	Light 2	2= Moderate	3= High
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COMPLETED BY- B.P. Mishra, Lab. Asst.-II

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Fishy	H ₂ S	Other	None	Moderate	High
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VERIFIED BY – B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading	Melon farming	Fishing
D/S of Town of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply

ARBITRARY

DETERMINAND	CODE	AQCFLAG						VALUE						
TEMPERATURE	0	2	0	0	1	N	2	6	1					
pH	1	0	3	0	2	N	7	1	7					
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N								
ALKALINITY mg/L						N	7	2	0					
(i) ELECTROMETRIC	1	0	1	0	1	N								
(ii) VISUAL TITRATION	1	0	1	0	2	N								
Nitrate NITROGEN (NO ₃) mg/L	0	7	1	0	5	N	0	3						
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	7	0						
B.O.D. mg/L	0	8	2	0	1	N	0	4						
C.O.D mg/L	0	8	3	0	1	N	4	0						
CHLORIDE mg/L						N	2	0	9	9				
(i) ARGENTOMETRIC	1	7	2	0	1	N								
(ii) MERCURIMETRIC	1	7	2	0	1	N								
SULPHATE mg/L						N	6	0						
(i) GRAVIMETRIC	1	6	3	0	1	N								
(ii) TURBIDIMETRIC	1	6	3	0	2	N								
SODIUM mg/L	1	1	1	0	3	N								
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N	3	8	0					
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N	2	4	0					
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N								
INSTANTANEOUS DISCHARGE M ³ /s														

Analysed By

Chemist

Regional officer

DETERMINAD	CODE	AQCFLAG						VALUE						
TURBIDITY JT/UNTU	0	2	1	0	1	N								
VELOCITY OF FLOW. m/sec						N								
(i) CURRENT METER	0	2	2	0	1	N								
(ii) FLOT	0	2	2	0	2	N								
(iii)CHEMICAL	0	2	2	0	3	N								
TOTAL KJDAHL NITROGEN mg/L						N								
(i) TITRATION	0	7	0	0	1	N								
(ii) NESSELERIZATION	0	7	0	0	4	N								
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	6	2	0					
TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N								
TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	2	1	7	0				
FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N								
AMMONICAL NITROGEN mg/L											0	5		
(i) COLOURIMETRY	0	7	5	5	5	N								
(ii) DISTILLATION TITRATION	0	7	5	5	1	N								
BORON DISSOLVED mg/L	0	5	1	0	5	N								
PHOSPHATE mg/L											0	6		
NITRITE mg/L											0	0	5	

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

M I N D A T / G L O W D A T

STATION CODE

3 1 6 9

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 2 2 5

WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	> 100 cm.	Flood

STATION- Drinking Water intake well of Municipal cop. Korba before treatment plant at kohadia village Korba .
TYPE- River Water

COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2= Moderate	3= High
None	Fishy	H.S	Other	None	Moderate	High

COMPLETED BY- B.P. Mishra , Lab. Asst.-II

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

U/S of Town of Industrial Area	Cattle Wading D/S of Town of Industrial Area	Melon farming	Fishing.
		Pilgrim Centre	Abstraction for Water Supply
		Bathing Ghat	

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba
Other

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAD	CODE	AQFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N	2 6 . 0		TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7 . 1 6		VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L		N 7 0 . 0		(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJLDAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N	0 . 5		(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N	6 . 4		(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N	1 . 2		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	6 4 . 0	
C.O.D mg/L	0 8 3 0 1 N	1 4 . 0		TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L		N 1 7 . 9 9		TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	2 5 9 . 0	
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L			
SULPHATE mg/L		N 8 . 0		(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L			0 . 8
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N	3 4 . 0		NITRITE mg/L			0 . 0 6
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N	3 0 . 0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Checked

Registered Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3 1 6 8

0 2 3 0

2 2 0 2 1 7

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	→100cm	Flood

WEATHER

APPROX DEPTH OF MAIN STREAM

Clear	Turbid	Green	Brown	Light	2 = Moderate	3 = High
None	Fishy	H ₂ S	Other			

COLOUR & INTENSITY ODOUR

None	Moderate	High
Cattle Wading	Melon farming	Fishing

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

HUMAN ACTIVITIES AROUND STATION

U/S of Town of Industrial Area	D/S of Town of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply
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LOCATION DETAIL

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0	1 N 2 6	1	TURBIDITY JT/UNTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N 7	1 5	VELOCITY OF FLOW, m/sec		N	
CONDUCTIVITY μ hos/cm	0 2 0 4	1 N		(i) CURRENT METER	0 2 2 0	1 N	
ALKALINITY mg/L		N 7 6	0	(ii) FLOT	0 2 2 0	2 N	
(i) ELECTROMETRIC	1 0 1 0	1 N		(iii) CHEMICAL	0 2 2 0	3 N	
(ii) VISUAL TITRATION	1 0 1 0	2 N		TOTAL KJDLAHL NITROGEN mg/L		N	
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0	5 N 0	8	(i) TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN mg/L	0 8 1 0	1 N 5	6	(ii) NESSELERIZATION	0 7 0 0	4 N	
B.O.D. mg/L	0 8 2 0	1 N 2	2	HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N 6 8	0
C.O.D mg/L	0 8 3 0	1 N 2 8	0	TOTAL COLIFORM MPN/100 ml	2 2 1 0	1 N	
CHLORIDE mg/L		N 2 3	9 9	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3	3 N 3 0 4	0
(i) ARGENTOMETRIC	1 7 2 0	1 N		FIXED DISSOLVED SOLIDS mg/L	4 4 4 4	4 N	
(ii) MERCURIMETRIC	1 7 2 0	1 N		AMMONICAL NITROGEN mg/L		0	9
SULPHATE mg/L		N 1 6	0	(i) COLOURIMETRY	0 7 5 5	5 N	
(i) GRAVIMETRIC	1 6 3 0	1 N		(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
(ii) TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED mg/L	0 5 1 0	5 N	
SODIUM mg/L	1 1 1 0	3 N		PHOSPHATE mg/L		0	8
CALCIUM AS CaCO ₃ mg/L	2 0 1 0	1 N 3 6	0	NITRITE (NO ₂) mg/L		0	1
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0	3 N 3 2	0				
FECAL COLIFORM MPN/100 ML	3 6 0 1	1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Chemist

Regional officer

3	1	6	5
2	2	0	2
1	2	0	5

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

WEATHER

Cloudy	Clear	Windy	Remaining
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APPROX DEPTH OF MAIN STREAM

< 50 cm.	50-100 cm.	> 100cm	Flood
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COLOUR & INTENSITY
ODOUR

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fishy	H ₂ S	Other					

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
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HUMAN ACTIVITIES AROUND STATION
LOCATION DETAIL

U/S of Town of Industrial Area	Cattle Wading	Melon farming	Fishing
D/S of Power of Industrial Area	Pilgrim Centre	Bathing Ghat	Abstraction for Water Supply

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N	2 6 . 0	TURBIDITY JTU/NTU	0 2	1 0 1 N	
pH	1	0 3 0 2 N	7 . 1 2	VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N		(i) CURRENT METER	0 2	2 0 1 N	
ALKALINITY mg/L				(ii) FLOT	0 2	2 0 2 N	
(i) ELECTROMETRIC	1	0 1 0 1 N		(iii)CHEMICAL	0 2	2 0 3 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N		TOTAL KILDAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) mg/L	0	7 1 0 5 N	0 . 6	(i) TITRATION	0 7	0 0 1 N	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N	6 . 0	(ii) NESSELERIZATION	0 7	0 0 4 N	
B.O.D. mg/L	0	8 2 0 1 N	1 . 8	HARDNESS as CaCO ₃ mg/L	2 2	1 0 1 N	6 6 . 0
C.O.D mg/L	0	8 3 0 1 N	2 0 . 0	TOTAL COLIFORM MPN/100 ml	2 2	1 0 1 N	
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3 3	3 3 3 N	2 9 7 . 0
(i) ARGENTOMETRIC	1	7 2 0 1 N		FIXED DISSOLVED SOLIDS mg/L	4 4	4 4 4 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N		AMMONICAL NITROGEN mg/L			0 . 7
SULPHATE mg/L				(i) COLOURIMETRY	0 7	5 5 5 N	
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISTILLATION TITRATION	0 7	5 5 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N		BORON DISSOLVED mg/L	0 5	1 0 5 N	
SODIUM mg/L	1	1 1 0 3 N		PHOSPHATE mg/L			0 . 5
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N	3 4 . 0	NITRITE mg/L			0 . 0 7
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N	3 2 . 0				
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

Bhuvan
Analysed By

Chaurist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS _____ Annexure-VI

M I N D A T / G L O W D A T

STATION CODE

1	1	0	5
2	8	0	2
1	2	5	0

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

WEATHER

Cloudy	Clear	Windy	Raining
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APPROX DEPTH OF MAIN STREAM

<50 cm.	50-100 cm.	>100cm	Flood
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COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fishy	H ₂ S	Other	None	Moderate	High		

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

Cattle Wading	Melon-farming	Fishing
D/S of Town of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5 . 9	
pH	1	0 3 0 2 N 7 . 1 5	
CONDUCTIVITY μmhos/cm	0	2 0 4 1 N	
ALKALINITY mg/L		N 7 2 . 0	
(i) ELECTROMETRIC	1	0 1 0 1 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N	
Nitrate NITROGEN (NO ₃) mg/L	0	7 1 0 5 N 0 . 3	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 6 . 8	
B.O.D. mg/L	0	8 2 0 1 N 0 . 8	
C.O.D mg/L	0	8 3 0 1 N 6 . 0	
CHLORIDE mg/L		N 1 8 . 9 9	
(i) ARGENTOMETRIC	1	7 2 0 1 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N	
SULPHATE mg/L		N 8 . 0	
(i) GRAVIMETRIC	1	6 3 0 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N	
SODIUM mg/L	1	1 1 0 3 N	
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 6 . 0	
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 4 . 0	
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE M ³ /s			

Analysed By

Signature

Regional Officer

DETERMINAND	CODE	AQFLAG	VALUE
TURBIDITY JTU/NTU	0	2 1 0 1 N	
VELOCITY OF FLOW. m/sec		N	
(i) CURRENT METER	0	2 2 0 1 N	
(ii) FLOT	0	2 2 0 2 N	
(iii)CHEMICAL	0	2 2 0 3 N	
TOTAL KILDAHL NITROGEN mg/L		N	
(i) TITRATION	0	7 0 0 1 N	
(ii) NESSELERIZATION	0	7 0 0 4 N	
HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 7 0 . 0	
TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N 2 5 9 . 0	
FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4 N	
AMMONICAL NITROGEN mg/L			0 . 4
(i) COLOURIMETRY	0	7 5 5 5 N	
(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
BORON DISSOLVED mg/L	0	5 1 0 5 N	
PHOSPHATE mg/L			0 . 6
NITRITE mg/L			0 . 0 4

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

3 1 7 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 4 0 3 1 7

0 3 4 8

M I N D A T / G L O W D A T

3. WEATHER

Cloudy Clear Windy Raining

STATION- Drinking Water intake well of Municipal cop. Korba after treatment plant at kohadia village Korba .

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. >100cm Flood

TYPE- River Water

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown Light 2 = Moderate 3 = High

COMPLETED BY- B.P. Mishra, Lab. Asst.-II

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishy H₂S Other None Moderate High

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading
D/S of Tower of Industrial Area
U/S of Tower of Industrial Area
Melon farming
Pilgrim-Centre/
Bathing Ghat
Fishing
Abstraction for Water Supply

ARBITRARY

DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAD	CODE	AQFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 7 . 3			TURBIDITY JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 . 1 8			VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L				(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJDLAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 . 3			(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6 . 8			(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 0 . 2			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 0 . 0		
C.O.D mg/L	0 8 3 0 1 N 6 . 0			TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 2 1 . 0		
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L			
SULPHATE mg/L				(i) COLOURIMETRY	0 7 5 5 5 N		0 . 4
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L			0 . 5
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 6 . 0			NITRITE mg/L			0 . 0 3
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 2 4 . 0						
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Chemist

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS _____ Annexure-VI

1. STATION CODE

3 1 6 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 4 0 3 1 7

M I N D A T / G L O W D A T

3. WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	> 100 cm.	Flood

4. APPROX DEPTH OF MAIN STREAM

STATION- Drinking Water intake well of
Municipal cop. Korba before treatment
plant at kohadia village Korba.
TYPE- River Water

5. COLOUR & INTENSITY
ODOUR

Clear	Furbid	Green	Brown	Light	2 = Moderate	3 = High
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COMPLETED BY- B.P. Mishra,
Lab. Asst.-II

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None	Fishy	H-S	Other	None	Moderate	High
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VERIFIED BY - B.P. Mishra, Lab. Asst.-II

8. HUMAN ACTIVITIES AROUND STATION
LOCATION DETAIL

U/S of Town of Industrial Area	Cattle Wading	Melon farming	Fishing.
	D/S of Lawn of Industrial Area	Pilgrim Centre	Abstraction for Water Supply
		Bathing Ghat	

AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	QCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 7 . 1		
pH	1 0 3 0 2 N 7 . 1 7		
CONDUCTIVITY μ hos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 7 2 . 0	
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 . 4		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6 . 2		
B.O.D. mg/L	0 8 2 0 1 N 1 . 4		
C.O.D mg/L	0 8 3 0 1 N 1 6 . 0		
CHLORIDE mg/L		N 1 6 . 9 9	
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L		N 1 0 . 0	
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 2 . 0		
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 4 . 0		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAD	CODE	QCFLAG	VALUE
TURBIDITY JT/UNTU	0 2 1 0 1 N		
VELOCITY OF FLOW. m/sec		N	
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KILDAHL NITROGEN mg/L		N	
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 6 . 0		
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 5 9 . 0		
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L		0 . 5	
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L		0 . 6	
NITRITE mg/L		0 . 0 4	

Analysed By
B. P. Mishra

Chemist

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS

Annexure-VI

3 1 6 8

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 6 0 3 1 7

0 2 5 0

M I N D A T / G L O W D A T

3. WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	> 100 cm.	Flood

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY
ODOUR

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fisty	H ₂ S	Other					

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None	Moderate	High
Cattle Wading	Melon farming	Fishing

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

U/S of Town of Industrial Area	D/S of Town of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply
--------------------------------	--------------------------------	------------------------------	------------------------------

STATION- Down Stream of Hosdev River
Near Urga Village Korba
TYPE- River Water

COMPLETED BY- B.P. Mishra,
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Conservation
Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AQCFLAG					VALUE					DETERMINAD	AQCFLAG					VALUE	
TEMPERATURE	0	2	0	0	1	N	2	7	3			TURBIDITY JT/UNTU	0	2	1	0	1	N	
pH	1	0	3	0	2	N	7	1	9			VELOCITY OF FLOW. m/sec							
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N						(i) CURRENT METER	0	2	2	0	1	N	
ALKALINITY mg/L						N	7	6	0			(ii) FLOT	0	2	2	0	2	N	
(i) ELECTROMETRIC	1	0	1	0	1	N						(iii) CHEMICAL	0	2	2	0	3	N	
(ii) VISUAL TITRATION	1	0	1	0	2	N						TOTAL KJLDAHL NITROGEN mg/L							
Nitrate NITROGEN (NO ₃) mg/L	0	7	1	0	5	N	1	0				(i) TITRATION	0	7	0	0	1	N	
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	6	0				(ii) NESSELERIZATION	0	7	0	0	4	N	
B.O.D. mg/L	0	8	2	0	1	N	2	2				HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	7 0 0
C.O.D mg/L	0	8	3	0	1	N	2	6	0			TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N	
CHLORIDE mg/L						N	2	4	9 9			TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	2 8 1 0
(i) ARGENTOMETRIC	1	7	2	0	1	N						FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N	
(ii) MERCURIMETRIC	1	7	2	0	1	N						AMMONICAL NITROGEN mg/L							
SULPHATE mg/L						N	1	4	0			(i) COLOURIMETRY	0	7	5	5	5	N	
(i) GRAVIMETRIC	1	6	3	0	1	N						(ii) DISTILLATION TITRATION	0	7	5	5	1	N	
(ii) TURBIDIMETRIC	1	6	3	0	2	N						BORON DISSOLVED mg/L	0	5	1	0	5	N	
SODIUM mg/L	1	1	1	0	3	N						PHOSPHATE mg/L							0 9
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N	3	4	0			NITRITE (NO ₂) mg/L							0 1
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N	3	6	0										
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N													
INSTANTANEOUS DISCHARGE M ³ /s																			

Analysed By

Chemist

Regd. Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3	1	6	5
1	6	0	3
1	2	1	0

M I N D A T / G L O W D A T

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

Cloudy	Clear	Windy	Raining
--------	-------	-------	---------

4. APPROX DEPTH OF MAIN STREAM

< 50 cm.	50-100 cm.	> 100cm	Flood
----------	------------	---------	-------

5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fishy	H ₂ S	Other					

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
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8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading	Melon Farming	Fishing
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9. LOCATION DETAIL

U/S of Town of Industrial Area	D/S of Town of Industrial Area	Bathing Ghat	Abstraction for Water Supply
--------------------------------	--------------------------------	--------------	------------------------------

STATION- 100 Meter Down Stream after confluence of Dngurnallah near CSEB (E) Guest House Korba
TYPE- River Water

COMPLETED BY- B.P. Mishra Asst.-II

VERIFIED BY -- B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

ARBITRARY

DETERMINAND	CODE	AQCFLAG				VALUE	DETERMINAD	CODE	AQCFLAG				VALUE				
TEMPERATURE	0	2	0	0	1	N	2	7	2	TURBIDITY JT/UNTU	0	2	1	0	1	N	
pH	1	0	3	0	2	N	7	1	1	VELOCITY OF FLOW. m/sec							
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N				(i) CURRENT METER	0	2	2	0	1	N	
ALKALINITY mg/L						N	7	0	0	(ii) FLOT	0	2	2	0	2	N	
(i) ELECTROMETRIC	1	0	1	0	1	N				(iii) CHEMICAL	0	2	2	0	3	N	
(ii) VISUAL TITRATION	1	0	1	0	2	N			TOTAL KJDLAHL NITROGEN mg/L								
Nitrate NITROGEN (NO ₃) mg/L	0	7	1	0	5	N	0	6	(i) TITRATION	0	7	0	0	1	N		
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	6	4	(ii) NESSELERIZATION	0	7	0	0	4	N		
B.O.D. mg/L	0	8	2	0	1	N	1	8	HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	6	
C.O.D mg/L	0	8	3	0	1	N	2	0	TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N	0	
CHLORIDE mg/L						N	2	0	TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	2	
(i) ARGENTOMETRIC	1	7	2	0	1	N			FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N	0	
(ii) MERCURIMETRIC	1	7	2	0	1	N			AMMONICAL NITROGEN mg/L							0	
SULPHATE mg/L						N	1	2	(i) COLOURIMETRY	0	7	5	5	5	N		
(i) GRAVIMETRIC	1	6	3	0	1	N			(ii) DISTILLATION TITRATION	0	7	5	5	1	N		
(ii) TURBIDIMETRIC	1	6	3	0	2	N			BORON DISSOLVED mg/L	0	5	1	0	5	N		
SODIUM mg/L	1	1	1	0	3	N			PHOSPHATE mg/L							0	
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N	3	4	NITRITE mg/L							0	
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N	3	2								0	
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N											
INSTANTANEOUS DISCHARGE M ³ /s																	

Analysed By

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1. STATION CODE

1 1 0 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 6 0 3 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. -50-100 cm. ->100cm. -Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown 1 = Eight 2 = Moderate 3 = High
None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading Fishing
D/S of Town of Pilgrim Centre/ Abstraction for
Industrial Area Bathing Ghat Water Supply

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 6 . 8			TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 . 1 6			VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L		N 7 6 . 0		(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KILDAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 . 3			(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 7 . 0			(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 0 . 8			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 7 2 . 0		
C.O.D mg/L	0 8 3 0 1 N 1 0 . 0			TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L		N 1 6 . 9 9		TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 6 3 . 0		
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L			0 . 5
SULPHATE mg/L		N 6 . 0		(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L			0 . 6
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 8 . 0			NITRITE mg/L			0 . 0 5
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 4 . 0						
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Chemist

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

3 1 7 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 5 0 4 1 7

M I N D A T / G L O W D A T

3. WEATHER

Cloudy Clear Windy Raining

STATION- Drinking Water intake well of
Municipal cop. Korba after treatment
plant at kohadia village Korba .

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. >100cm --Flood

TYPE- River Water

5. COLOUR & INTENSITY
ODOUR

Clear Turbid Green Brown 1 - Eight 2 - Moderate 3 - High

COMPLETED BY- B.P. Mishra
Lab. Asst.-II

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Fishy H₂S Other None Moderate High

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation
Board, Korba

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading Melon farming Fishing
D/S of Town of P/gram-Centre/ Abstraction for
Industrial Area Bathing Ghat Water Supply

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 7	6		TURBIDITY JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7	1 8		VELOCITY OF FLOW, m/sec		N	
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L		N 7 8	0	(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJLDAHL NITROGEN mg/L		N	
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0	3		(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6	8		(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 0	4		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 6	0	
C.O.D mg/L	0 8 3 0 1 N 8	0		TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L		N 2 0	9 9	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 2 6	0	
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L		0	5
SULPHATE mg/L		N 6	0	(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L		0	6
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 8	0		NITRITE mg/L		0	0 4
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 2 8	0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

B.P. Mishra
Analysed By

Chaitanya

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS _____ Annexure-VI

STATION CODE

3	1	6	9
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DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2	5	0	4	1	7
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M	I	N	D	A	T	/	G	L	O	W	D	A	T
---	---	---	---	---	---	---	---	---	---	---	---	---	---

WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	> 100cm	Flood

APPROX DEPTH OF MAIN STREAM

COLOUR & INTENSITY
ODOUR

Clear	Turbid	Green	Brown 1	2	Moderate	3	High
None	Fishy	H ₂ S	Other	None	Moderate	High	

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

HUMAN ACTIVITIES AROUND STATION

U/S of Town of Industrial Area	Cattle Wading	Melon Farming	Fishing
D/S of Industrial Area	Pilgrim Centre	Bathing Ghat	Abstraction for Water Supply

STATION- Drinking Water intake well of Municipal cop. Korba before treatment plant at kohadia village Korba.
TYPE - River Water

COMPLETED BY- B.P. Mishra
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba
Other

ARBITRARY

DETERMINAND	CODE	QCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 7	. 5	
pH	1 0 3 0 2 N 7	. 1 5	
CONDUCTIVITY μmhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 7 6 . 0	
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0	. 5	
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6	. 4	
B.O.D. mg/L	0 8 2 0 1 N 1	. 2	
C.O.D mg/L	0 8 3 0 1 N 1 4	. 0	
CHLORIDE mg/L		N 1 7 . 9 9	
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L		N 1 2 . 0	
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 2	. 0	
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 6	. 0	
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

Analysed By
B. P. Mishra

Checked By
C. G. Environment Conservation Board

Regional Officer

DETERMINAD	CODE	QCFLAG	VALUE
TURBIDITY JTU/NTU	0 2 1 0 1 N		
VELOCITY OF FLOW. m/sec		N	
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOT	0 2 2 0 2 N		
(iii)CHEMICAL	0 2 2 0 3 N		
TOTAL KJLDAHL NITROGEN mg/L		N	
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 8	. 0	
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 6 1	. 0	
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L		0 . 6	
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L		0 . 8	
NITRITE mg/L		0 . 0 5	

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS

Annexure-VI

3 1 6 8

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 1 0 4 1 7

M I N D A T / G L O W D A T

3. WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	> 100cm	Flood

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2 = Moderate	3 = High
None	Fishy	H ₂ S	Other			

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
Cattle Wading	Melon farming	Fishing

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

U/S of Town of Industrial Area	D/S of Town of Industrial Area	Pilgrim-Centre/ Bathing Ghat	Abstraction for Water Supply
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DETERMINAND	CODE	AOCFLAG	VALUE	DETERMINAD	CODE	AOCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 7 . 5			TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 . 1 8			VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L		N 7 8 . 0		(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJLDAHL NITROGEN mg/L			
Nitrate Nitrogen (NO ₃) mg/L	0 7 1 0 5 N 0 . 8			(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 5 . 8			(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 2 . 4			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 7 2 . 0		
C.O.D mg/L	0 8 3 0 1 N 2 8 . 0			TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L		N 2 7 . 9 9		TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 8 3 . 0		
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L			
SULPHATE mg/L		N 1 8 . 0		(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L			0 . 7
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 6 . 0			NITRITE mg/L			0 . 0 8
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 6 . 0						
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Checked By

Registered Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

1. STATION CODE

3 1 6 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 1 0 4 1 7

1 1 4 0

M I N D A T / G L O W D A T

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. >100cm Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown Light 2 Moderate 3 High
None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing

9. LOCATION DETAIL

U/S of Town of Industrial Area D/S of Town of Industrial Area Bathing Ghat Abstraction for Water Supply

STATION- 100 Meter Down Srem after confluence of Dengunnallah near CSEB (E) Guest House Korba
TYPE- River Water

COMPLETED BY- B.P.Mishra, Lab. Asst-II

VERIFIED BY - B.P. Mishra, Lab. Asst-II
AGENCY - C.G. Environment Conservation Board, Korba

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 7 . 5		TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1	0 3 0 2 N 7 . 1 3		VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N		(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L			N 6 8 . 0	(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1	0 1 0 1 N		(iii)CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1	0 1 0 2 N		TOTAL KJLDAHL NITROGEN mg/L			
Nitrate Nitrogen (NO ₃) mg/L	0	7 1 0 5 N 0 . 7		(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 6 . 2		(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0	8 2 0 1 N 2 . 0		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 4 . 0		
C.O.D mg/L	0	8 3 0 1 N 2 2 . 0		TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L			N 2 1 . 9 9	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 8 2 . 0		
(i) ARGENTOMETRIC	1	7 2 0 1 N		FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1	7 2 0 1 N		AMMONICAL NITROGEN mg/L			0 . 8
SULPHATE mg/L			N 1 4 . 0	(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1	6 3 0 2 N		BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1	1 1 0 3 N		PHOSPHATE mg/L			0 . 5
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 4 . 0		NITRITE mg/L			0 . 0 4
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 0 . 0					
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

B.P.Mishra

Analysed By

B.P.Mishra
Chemist

Registrar Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1. STATION CODE

1	1	0	5
2	8	0	4
1	2	2	5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

Cloudy	Clear	Windy	Rainy
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4. APPROX DEPTH OF MAIN STREAM

< 50 cm.	50-100 cm.	> 100 cm.
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5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fishy	H ₂ S	Other	None	Moderate	High		

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
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8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

U/S of Town of Industrial Area	Cattle Wading	Agriculture	Fishing
Industrial Area	D/S of Town of Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply	

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 7 . 4		TURBIDITY JT/NTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N 7 . 1 8		VELOCITY OF FLOW. m/sec			N
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N		(i) CURRENT METER	0	2 2 0 1 N	
ALKALINITY mg/L				(ii) FLOT	0	2 2 0 2 N	
(i) ELECTROMETRIC	1	0 1 0 1 N		(iii) CHEMICAL	0	2 2 0 3 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N		TOTAL KJDAHL NITROGEN mg/L			N
Nitrate Nitrogen (NO ₃) mg/L	0	7 1 0 5 N 0 . 6		(i) TITRATION	0	7 0 0 1 N	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 7 . 2		(ii) NESSELERIZATION	0	7 0 0 4 N	
B.O.D. mg/L	0	8 2 0 1 N 0 . 6		HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 7 0 . 0	
C.O.D mg/L	0	8 3 0 1 N 8 . 0		TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N 2 6 3 . 0	
(i) ARGENTOMETRIC	1	7 2 0 1 N		FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N		AMMONICAL NITROGEN mg/L			0 . 7
SULPHATE mg/L				(i) COLOURIMETRY	0	7 5 5 5 N	
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N		BORON DISSOLVED mg/L	0	5 1 0 5 N	
SODIUM mg/L	1	1 1 0 3 N		PHOSPHATE mg/L			0 . 5
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 4 . 0		NITRITE mg/L			0 . 0 4
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 6 . 0					
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By *B. S. Mishra*

Chemist

Regional Officer

B. S. Mishra

COMPLETED BY - B.P. Mishra, Lab Asst.-II
 VERIFIED BY - B.P. Mishra, Lab. Asst.-II
 AGENCY - C.G. Environment Conservation Board, Korba
 Other

STATION- Up Stream of Hasdeo Bango, Hydrel Power Station, Machadoli, Korba
 TYPE - River Water

M I N D A T / G L O W D A T

1. STATION CODE

3 1 7 0

MINARS / GEMS

Annexure-VI

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 1 0 6 1 7

1 2 5 5

M I N D A T / G L O W D A T

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. > 100cm Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown 1 = Light 2 = Moderate 3 = High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishy H₂S Other None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading Melon farming Fishing
D/S of Town of Pilgrim-Centre/ Abstraction for
Industrial Area Industrial Area Bathing Ghat Water Supply

ARBITRARY

DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAD	CODE	AQFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 6	1	TURBIDITY JTU/NTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N 7	1 8	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY μ hos/cm	0	2 0 4 1 N		(i) CURRENT METER	0	2 2 0 1 N	
ALKALINITY mg/L				(ii) FLOT	0	2 2 0 2 N	
(i) ELECTROMETRIC	1	0 1 0 1 N		(iii) CHEMICAL	0	2 2 0 3 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N		TOTAL KILDAHL NITROGEN mg/L			
Nitrate Nitrogen (NO ₃) mg/L	0	7 1 0 5 N 0	2	(i) TITRATION	0	7 0 0 1 N	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 6	8	(ii) NESSELERIZATION	0	7 0 0 4 N	
B.O.D. mg/L	0	8 2 0 1 N 0	2	HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 6 4	0
C.O.D mg/L	0	8 3 0 1 N 4	0	TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N 2 2 4	0
(i) ARGENTOMETRIC	1	7 2 0 1 N		FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N		AMMONICAL NITROGEN mg/L			0 . 4
SULPHATE mg/L				(i) COLOURIMETRY	0	7 5 5 5 N	
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N		BORON DISSOLVED mg/L	0	5 1 0 5 N	
SODIUM mg/L	1	1 1 0 3 N		PHOSPHATE mg/L			0 . 4
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 4	0	NITRITE mg/L			0 . 0 4
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 0	0				
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3 1 6 8

2 7 0 6 1 7

0 1 1 5

M I N D A T / G L O W D A T

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

Cloudy -Clear- Windy Raining
 < 50 cm. -50-100 cm. ->100cm -Flood

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY ODOUR

Clear - Turbid - Brown - Light - 2 - Moderate - 3 - High
 None - Ffisy - H₂S - Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High
 Cattle Wading Melon farming Fishing.

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

D/S of Town of Industrial Area Pilgrim-Centre/ Bathing Ghat Abstraction-for Water Supply

STATION- Down Srem of Hosdev River
 Near Urga Village Korba
 TYPE- River Water

COMPLETED BY- B.P. Mishra,
 Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
 AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

DETERMINDAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 6 . 2			TURBIDITY JTUNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 . 1 5			VELOCITY OF FLOW. m/sec		N	
CONDUCTIVITY umhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L		N 7 6 . 0		(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KILDAHL NITROGEN mg/L		N	
Nitrate Nitrogen (NO ₃) mg/L	0 7 1 0 5 N 0 . 6			(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 5 . 6			(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 1 . 6			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 7 0 . 0		
C.O.D mg/L	0 8 3 0 1 N 2 6 . 0			TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L		N 2 7 . 9 9		TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 3 0 2 . 0		
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L			0 . 8
SULPHATE mg/L		N 1 4 . 0		(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L.			0 . 7
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 2 . 0			NITRITE (NO ₂) mg/L			0 . 0 8
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 8 . 0						
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Checked

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR									
3	1	6	5						
2	7	0	6	1	7	1	1	1	0

M I N D A T / G L O W D A T

STATION- 100 Meter Down Stream after confluence of Dengurollah near CSEB (E) Guest House Korba
 TYPE- River Water

COMPLETED BY- B.P.Mishra Asst.-II
 VERIFIED BY - B.P. Mishra, Lab. Asst.-II
 AGENCY - C.G. Environment Conservation Board, Korba

Cloudy	Clear	Windy	Raining
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< 50 cm.	50-100 cm.	> 100cm	Flood
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Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fisily	H ₂ S	Other					

None	Moderate	High
Cattle Wading	Melon farming	Fishing
D/S of Town of Industrial Area	Pilgrim-Centre/ Bathing Ghat	Abstraction-for Water Supply

U/S of Town of Industrial Area

- STATION CODE
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)
- WEATHER
- APPROX DEPTH OF MAIN STREAM
- COLOUR & INTENSITY ODOUR
- VISIBLE EFFLUENT DISCHARGE IN PROXIMIT
- HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

ARBITRARY DETERMINAND CODE

DETERMINAND	CODE	QCFLAG	VALUE	DETERMINAD	QCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 6 . 1			TURBIDITY JTU/NTU	0 2 1 0 1 N	
pH	1 0 3 0 2 N 7 . 1 2			VELOCITY OF FLOW, m/sec		
CONDUCTIVITY μmhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N	
ALKALINITY mg/L		N 6 8 . 0		(ii) FLOT	0 2 2 0 2 N	
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N	
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KILDAHL NITROGEN mg/L		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 . 5			(i) TITRATION	0 7 0 0 1 N	
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6 . 2			(ii) NESSELERIZATION	0 7 0 0 4 N	
B.O.D. mg/L	0 8 2 0 1 N 1 . 0			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 4 . 0	
C.O.D mg/L	0 8 3 0 1 N 2 2 . 0			TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N	
CHLORIDE mg/L		N 1 8 . 9 9		TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 8 9 . 0	
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N	
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L		0 . 6
SULPHATE mg/L		N 1 0 . 0		(i) COLOURIMETRY	0 7 5 5 5 N	
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N	
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N	
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L		0 . 5
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 4 . 0			NITRITE mg/L		0 . 0 6
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 0 . 0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N					
INSTANTANEOUS DISCHARGE M ³ /s						

Analysed By *Bfmr*

Checked *[Signature]*

Registered Officer *[Signature]*

1. STATION CODE

1 1 0 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY)

2 7 0 6 1 7

3. WEATHER

Cloudy Clear Windy Rainy

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. > 100 cm. Flood

5. COLOUR & INTENSITY
ODOUR

Clear Turbid Green Brown 1 = Light 2 = Moderate 3 = High
None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Mtn Farming Fishing
D/S of Town of Pilgrim Centre/ Abstraction for
Industrial Area Industrial Area Bathing Ghat Water Supply

ARBITRARY

DETERMINAND	CODE	QCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5 . 8	
pH	1	0 3 0 2 N 7 . 1 5	
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N	
ALKALINITY mg/L		N 8 0 . 0	
(i) ELECTROMETRIC	1	0 1 0 1 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N	
Nitrate Nitrogen (NO ₃) mg/L	0	7 1 0 5 N 0 . 5	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 6 . 8	
B.O.D. mg/L	0	8 2 0 1 N 1 . 0	
C.O.D mg/L	0	8 3 0 1 N 8 . 0	
CHLORIDE mg/L		N 1 6 . 9 9	
(i) ARGENTOMETRIC	1	7 2 0 1 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N	
SULPHATE mg/L		N 1 0 . 0	
(i) GRAVIMETRIC	1	6 3 0 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N	
SODIUM mg/L	1	1 1 0 3 N	
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 6 . 0	
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 8 . 0	
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE M ³ /s			

Analysed By
B.P. Mishra

Checked By
Chandra

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

M I N D A T / G L O W D A T

STATION- Up Stream of Hasdeo Bango,
Hydel Power Station, Machadoli, Korba
TYPE - River Water

COMPLETED BY - B.P. Mishra
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Conservation
Board, Korba
Other

DETERMINAND	CODE	QCFLAG	VALUE
TURBIDITY JTUNTU	0	2 1 0 1 N	
VELOCITY OF FLOW. m/sec			
(i) CURRENT METER	0	2 2 0 1 N	
(ii) FLOT	0	2 2 0 2 N	
(iii) CHEMICAL	0	2 2 0 3 N	
TOTAL KjLDAHL NITROGEN mg/L			
(i) TITRATION	0	7 0 0 1 N	
(ii) NESSELERIZATION	0	7 0 0 4 N	
HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 7 4 . 0	
TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N 2 6 5 . 0	
FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4 N	
AMMONICAL NITROGEN mg/L			
(i) COLOURIMETRY	0	7 5 5 5 N	
(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
BORON DISSOLVED mg/L	0	5 1 0 5 N	
PHOSPHATE mg/L			
NITRITE mg/L			

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

3 1 7 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 4 0 7 1 7

0 2 3 5

M I N D A T / G L O W D A T

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. > 100cm Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown 1 = Light 2 = Moderate 3 = High
None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading Fishing
D/S of Town of Industrial Area
U/S of Town of Industrial Area Bathing Ghat Water Supply

ARBITRARY

DETERMINAND	CODE	AOFLAG	VALUE	DETERMINAD	CODE	AOFLAG	VALUE
TEMPERATURE	0	2 0 0 1 1 N 2 5 . 6		TURBIDITY JTU/NTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N 7 . 1 9		VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N		(i) CURRENT METER	0	2 2 0 1 N	
ALKALINITY mg/L		N 7 8 . 0		(ii) FLOT	0	2 2 0 2 N	
(i) ELECTROMETRIC	1	0 1 0 1 N		(iii) CHEMICAL	0	2 2 0 3 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N		TOTAL KILDAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) mg/L	0	7 1 0 5 N 0 . 3		(i) TITRATION	0	7 0 0 1 N	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 7 . 0		(ii) NESSELERIZATION	0	7 0 0 4 N	
B.O.D. mg/L	0	8 2 0 1 N 0 . 4		HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 6 2 . 0	
C.O.D mg/L	0	8 3 0 1 N 6 . 0		TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
CHLORIDE mg/L		N 2 2 . 9 9		TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N 2 2 5 . 0	
(i) ARGENTOMETRIC	1	7 2 0 1 N		FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N		AMMONICAL NITROGEN mg/L			
SULPHATE mg/L		N 8 . 0		(i) COLOURIMETRY	0	7 5 5 5 N	
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N		BORON DISSOLVED mg/L	0	5 1 0 5 N	
SODIUM mg/L	1	1 1 0 3 N		PHOSPHATE mg/L			0 . 4
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 4 . 0		NITRITE mg/L			0 . 0 5
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 2 8 . 0					
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Checked

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

3 1 6 9

1 2 0 5

2 4 0 7 1 7

M I N D A T / G L O W D A T

STATION CODE

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

WEATHER

Cloudy	Clear	Windy	Raining
<50 cm	50-100 cm	>100 cm	Flood

APPROX DEPTH OF MAIN STREAM

COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2 = Moderate	3 = High
None	Fishy	H/S	Other	None	Moderate	High

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

U/S of Town of Industrial Area	Cattle Wading	Melon Farming	Fishing
D/S of Town of Industrial Area	Pilgrim-Centre	Bathing Ghat	Water Supply

STATION- Drinking Water intake well of Municipal cop. Korba before treatment plant at kohadia village Korba .
TYPE- River Water

COMPLETED BY- B.P. Mishra .
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

ARBITRARY DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAD	CODE	AQFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5	7	TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1	0 3 0 2 N 7	1 6	VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N		(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L			0	(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1	0 1 0 1 N		(iii) CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1	0 1 0 2 N		TOTAL KJLDAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) mg/L	0	7 1 0 5 N 0	5	(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 5	8	(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0	8 2 0 1 N 1	4	HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	6 6	0
C.O.D mg/L	0	8 3 0 1 N 1 2	0	TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	2 8	0
(i) ARGENTOMETRIC	1	7 2 0 1 N		FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1	7 2 0 1 N		AMONICAL NITROGEN mg/L			0 . 7
SULPHATE mg/L				(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1	6 3 0 2 N		BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1	1 1 0 3 N		PHOSPHATE mg/L			0 . 6
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 0	0	NITRITE mg/L			0 . 0 6
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 6	0				
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Signature

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3 1 6 8

0 2 0 5

2 2 0 7 1 7

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	> 100cm	Float

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY
ODOUR

Clear	Turbid	Green	Brown	1 = Light	2 = Moderate	3 = High
None	Fishty	H ₂ S	Other			

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
Cattle Wading	Melon-farming	Fishing

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

U/S of Town of Industrial Area	D/S of Town of Industrial Area	Pilgrim-Centre/ Bathing Chat	Abstraction for Water Supply
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STATION- Down Stream of Hosdev River
Near Urga Village Korba
TYPE- River Water

COMPLETED BY- B.P. Mishra, Lab. Asst.-II
VERIFIED BY - B.P. Mishra, Lab. Asst.-I
AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 . 6			TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 . 1 3			VELOCITY OF FLOW. m/sec		N	
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L		N 7 2 . 0		(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KILDAHL NITROGEN mg/L		N	
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 . 8			(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 5 . 4			(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 2 . 6			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 6 . 0		
C.O.D mg/L	0 8 3 0 1 N 3 6 . 0			TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L		N 2 3 . 9 9		TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 3 3 6 . 0		
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L		0 . 9	
SULPHATE mg/L		N 1 6 . 0		(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L		0 . 7	
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 6 . 0			NITRITE (NO ₂) mg/L		0 . 1	
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 0 . 0						
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Signature

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3	1	6	5
2	2	0	7
1	2	1	5

M I N D A T / G L O W D A T

STATION- 100 Meter Down Stream after
confluence of Dngumallah near CSEB (E)
Guest House Korba
TYPE- River Water

COMPLETED BY- B.P.Mishra
Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation
Board, Korba

Other

Cloudy	Clear	Windy	Raining
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<50 cm	50-100 cm	>100cm	Flood
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Clear	Turbid	Brown	Light	2	Moderate	3	High
None	Fishy	H ₂ S	Other				

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
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HUMAN ACTIVITIES AROUND STATION
LOCATION DETAIL

U/S of Town of Industrial Area	D/S of Town of Industrial Area	Melon Farming	Fishing	Abstraction for Water Supply
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ARBITRARY

DETERMINAND	CODE	AQCFLAG							DETERMINAD	VALUE
TEMPERATURE	0	2	0	0	1	N	2	5	7	
pH	1	0	3	0	2	N	7	1	0	
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N				
ALKALINITY mg/L						N	6	6	0	
(i) ELECTROMETRIC	1	0	1	0	1	N				
(ii) VISUAL TITRATION	1	0	1	0	2	N				
Nitrate NITROGEN (NO ₃) mg/L	0	7	1	0	5	N	0	7		
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	5	8		
B.O.D. mg/L	0	8	2	0	1	N	2	4		
C.O.D mg/L	0	8	3	0	1	N	2	6	0	
CHLORIDE mg/L						N	2	0	9	9
(i) ARGENTOMETRIC	1	7	2	0	1	N				
(ii) MERCURIMETRIC	1	7	2	0	1	N				
SULPHATE mg/L						N	1	2	0	
(i) GRAVIMETRIC	1	6	3	0	1	N				
(ii) TURBIDIMETRIC	1	6	3	0	2	N				
SODIUM mg/L	1	1	1	0	3	N				
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N	3	0	0	
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N	3	2	0	
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N				
INSTANTANEOUS DISCHARGE M ³ /s										

DETERMINAD	CODE	AQCFLAG				VALUE
TURBIDITY JT/UNTU	0	2	1	0	1	N
VELOCITY OF FLOW. m/sec						N
(i) CURRENT METER	0	2	2	0	1	N
(ii) FLOT	0	2	2	0	2	N
(iii) CHEMICAL	0	2	2	0	3	N
TOTAL KILDAHL NITROGEN mg/L						N
(i) TITRATION	0	7	0	0	1	N
(ii) NESSELERIZATION	0	7	0	0	4	N
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N
TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N
TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N
FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N
AMMONICAL NITROGEN mg/L						0
(i) COLOURIMETRY	0	7	5	5	5	N
(ii) DISTILLATION TITRATION	0	7	5	5	1	N
BORON DISSOLVED mg/L	0	5	1	0	5	N
PHOSPHATE mg/L						0
NITRITE mg/L						0

B.P. Mishra
Analysed By

CHEMIST

Regional Officer

M I N D A T / G L O W D A T

STATION- Up Stream of Hasdeo Bango,
Hydel Power Station, Machhadoli, Korba
TYPE - River Water

COMPLETED BY- B.P. Mishra
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Conservation
Board, Korba
Other

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1	1	0	5
3	1	0	7
0	1	1	5

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	> 100cm	Flood

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fishy	H ₂ S	Other	None	Moderate	High		

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

U/S of Town of Industrial Area	Bathing Ghat	Water Supply
Cattle Wading	Metro farming	Fishing
D/S of Town of Industrial Area	Abstraction for	

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5 7	
pH	1	0 3 0 2 N 7 1 3	
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N	
ALKALINITY mg/L		N 7 8 0	
(i) ELECTROMETRIC	1	0 1 0 1 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N	
Nitrate Nitrogen (NO ₃) mg/L	0	7 1 0 5 N 0 5	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 6 2	
B.O.D. mg/L	0	8 2 0 1 N 1 4	
C.O.D mg/L	0	8 3 0 1 N 1 2 0	
CHLORIDE mg/L		N 1 8 9 9	
(i) ARGENTOMETRIC	1	7 2 0 1 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N	
SULPHATE mg/L		N 1 4 0	
(i) GRAVIMETRIC	1	6 3 0 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N	
SODIUM mg/L	1	1 1 0 3 N	
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 8 0	
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 4 0	
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JTUNTU	0	2 1 0 1 N	
VELOCITY OF FLOW. m/sec			
(i) CURRENT METER	0	2 2 0 1 N	
(ii) FLOT	0	2 2 0 2 N	
(iii) CHEMICAL	0	2 2 0 3 N	
TOTAL KjLDAHL NITROGEN mg/L			
(i) TITRATION	0	7 0 0 1 N	
(ii) NESSELERIZATION	0	7 0 0 4 N	
HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 7 2 0	
TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N 2 8 8 0	
FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4 N	
AMMONICAL NITROGEN mg/L			
(i) COLOURIMETRY	0	7 5 5 5 N	
(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
BORON DISSOLVED mg/L	0	5 1 0 5 N	
PHOSPHATE mg/L			
NITRITE mg/L			

Analysed By

Checked By

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
3 1 7 0

MINARS / GEMS

Annexure-VI

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 4 0 8 1 7

3. WEATHER

Cloudy Clear Windy Raining

M I N D A T / G L O W D A T

STATION- Drinking Water intake well of
Municipal cop. Korba after treatment
plant at kohadia village Korba .

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. > 100cm Flood

5. COLOUR & INTENSITY
ODOUR

Clear Turbid Green Brown Light 2- Moderate 3- High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Fishy H₂S Other

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading Melon-farming Fishing
D/S of Town of Pilgrim-Centre/ Abstraction for
Industrial Area Bathing Ghat Water Supply

TYPE- River Water

COMPLETED BY- B.P. Mishra,
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Conservation
Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5	7	
pH	1 0 3 0 2 N 7	2 0	
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 7 4	0
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0	2	
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 7	2	
B.O.D. mg/L	0 8 2 0 1 N 0	2	
C.O.D mg/L	0 8 3 0 1 N 4	0	
CHLORIDE mg/L		N 2 1	9 9
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L		N 8	0
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N		
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

Analysed By

Chandra

DETERMINAND	CODE	AQCFLAG	VALUE
TURBIDITY JTU/NTU	0 2 1 0 1 N		
VELOCITY OF FLOW. m/sec		N	
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KjLDAHL NITROGEN mg/L		N	
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	7 0	0
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	2 2 1	0
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L		0	3
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L		0	2
NITRITE mg/L		0	0 4

Analysed By

Chandra

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1. STATION CODE

3 1 6 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 4 0 8 1 7

1 1 5 5

M I N D A T / G L O W D A T

3. WEATHER

Cloudy	Clear	Windy	Raining
<50 cm.	50-100 cm.	>100 cm	Flood

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fishy	H-S	Other	None	Moderate	High		

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

U/S of Town of Industrial Area	Cattle Wading	Melon Farming	Fishing
D/S of Town of Industrial Area	Pilgrim Centre	Bathing Ghat	Abstraction for Water Supply

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQCFLAG					VALUE	
TEMPERATURE	0	2	0	0	1	2	5	6
pH	1	0	3	0	2	7	1	5
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N		
ALKALINITY mg/L						N	7	0
(i) ELECTROMETRIC	1	0	1	0	1	N		
(ii) VISUAL TITRATION	1	0	1	0	2	N		
Nitrate NITROGEN (NO ₃) mg/L	0	7	1	0	5	N	0	4
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	6	4
B.O.D. mg/L	0	8	2	0	1	N	1	2
C.O.D mg/L	0	8	3	0	1	N	1	4
CHLORIDE mg/L						N	1	6
(i) ARGENTOMETRIC	1	7	2	0	1	N		
(ii) MERCURIMETRIC	1	7	2	0	1	N		
SULPHATE mg/L						N	1	2
(i) GRAVIMETRIC	1	6	3	0	1	N		
(ii) TURBIDIMETRIC	1	6	3	0	2	N		
SODIUM mg/L	1	1	1	0	3	N		
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N		
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N		
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N		
INSTANTANEOUS DISCHARGE M ³ /s								

Analysed By

Signature

Signature

DETERMINAND	CODE	AQCFLAG					VALUE
TURBIDITY JTU/NTU	0	2	1	0	1	N	
VELOCITY OF FLOW. m/sec						N	
(i) CURRENT METER	0	2	2	0	1	N	
(ii) FLOT	0	2	2	0	2	N	
(iii) CHEMICAL	0	2	2	0	3	N	
TOTAL Kjeldahl Nitrogen mg/L						N	
(i) TITRATION	0	7	0	0	1	N	
(ii) NESSELERIZATION	0	7	0	0	4	N	
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	6 8 . 0
TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N	
TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	2 9 2 . 0
FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N	
AMMONICAL NITROGEN mg/L							0 . 5
(i) COLOURIMETRY	0	7	5	5	5	N	
(ii) DISTILLATION TITRATION	0	7	5	5	1	N	
BORON DISSOLVED mg/L	0	5	1	0	5	N	
PHOSPHATE mg/L							0 . 3
NITRITE mg/L							0 . 0 5

STATION- Drinking Water intake well of Municipal cop. Korba before treatment plant at kohadia village Korba .
TYPE- River Water

COMPLETED BY- B.P. Mishra , Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

Other

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

M I N D A T / G L O W D A T

STATION- Down Stream of Hosdev River
Near Urga Village Korba
TYPE- River Water

COMPLETED BY- B.P. Mishra,
Lab. Asst.-II
VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation
Board, Korba
Other

ARBITRARY

1. STATION CODE 3 1 6 8

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 6 0 8 1 7 0 3 1 0

3. WEATHER

Stony	Clear	Windy	Raining
< 50 cm.	50-100 cm.	> 100 cm.	Flood

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY
ODOUR

Clear	Turbid	Brown	Bright	2 = Moderate	3 = High
None	Fishy	H ₂ S	Other		

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

8. HUMAN ACTIVITIES AROUND STATION

None	Moderate	High
Cattle Wading	Melon farming	Fishing

9. LOCATION DETAIL

U/S of Town of Industrial Area	D/S of Town of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply
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DETERMINAND	CODE	AQCFLAG							DETERMINAD	CODE	AQCFLAG							VALUE
TEMPERATURE	0	2	0	0	1	N	2	5	TURBIDITY JTU/NTU	0	2	1	0	1	N	VALUE		
pH	1	0	3	0	2	N	7	1	5	VELOCITY OF FLOW. m/sec					N			
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N			(i) CURRENT METER	0	2	2	0	1	N			
ALKALINITY mg/L						N	7	4	(ii) FLOT	0	2	2	0	2	N			
(i) ELECTROMETRIC	1	0	1	0	1	N			(iii) CHEMICAL	0	2	2	0	3	N			
(ii) VISUAL TITRATION	1	0	1	0	2	N			TOTAL KJLDAHL NITROGEN mg/L					N				
Nitrate Nitrogen (NO ₃) mg/L	0	7	1	0	5	N	0	7	(i) TITRATION	0	7	0	0	1	N			
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	5	8	(ii) NESSELERIZATION	0	7	0	0	4	N			
B.O.D. mg/L	0	8	2	0	1	N	2	2	HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	6		
C.O.D mg/L	0	8	3	0	1	N	3	2	TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N	6		
CHLORIDE mg/L						N	2	6	TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	3		
(i) ARGENTOMETRIC	1	7	2	0	1	N		9	FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N	0		
(ii) MERCURIMETRIC	1	7	2	0	1	N			AMMONICAL NITROGEN mg/L									
SULPHATE mg/L						N	2	0	(i) COLOURIMETRY	0	7	5	5	5	N	9		
(i) GRAVIMETRIC	1	6	3	0	1	N			(ii) DISTILLATION TITRATION	0	7	5	5	1	N			
(ii) TURBIDIMETRIC	1	6	3	0	2	N			BORON DISSOLVED mg/L	0	5	1	0	5	N			
SODIUM mg/L	1	1	1	0	3	N			PHOSPHATE mg/L							0		
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N			NITRITE (NO ₂) mg/L							0		
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N										0		
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N										0		
INSTANTANEOUS DISCHARGE M ³ /s																		

Analysed By *Bhavya*

MSI

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3 1 6 5
2 6 0 8 1 7
0 1 1 0

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm 50-100 cm >100cm Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown 1 Light 2 Moderate 3 High
None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading Melon farming Fishing
U/S of Town of D/S of Town of Pilgrim Centre Fishing
Industrial Area Industrial Area Bathing Ghat Abstraction for Water Supply

STATION- 100 Meter Down Stream after confluence of Dengurnallah near CSEB (E) Guest House Korba
TYPE- River Water

COMPLETED BY- B.P. Mishra Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 1 N 2 5 6			TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 0 9			VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L				(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJLDAHL NITROGEN mg/L			
Nitrate Nitrogen (NO ₃) mg/L	0 7 1 0 5 N 0 6			(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6 2			(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 1 8			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 0 0		
C.O.D mg/L	0 8 3 0 1 N 2 4 0			TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 3 1 8 0		
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L			
SULPHATE mg/L				(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L			
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N			NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N						
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Checked By

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS _____ Annexure-VI

M I N D A T / G L O W D A T

STATION- Up Stream of Hasdeo Bango,
Hydel Power Station, Machidoli, Korba
TYPE - River Water

COMPLETED BY- B.P. Mishra
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Conservation
Board, Korba

Other

1	1	0	5
2	9	0	8
1	2	4	0

Cloudy	Clear	Windy	Rainning
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<50 cm.	50-100 cm.	>100cm	Flood
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Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fisty	H ₂ S	Other					

None	Moderate	High
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7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

U/S of Town of Industrial Area	Cattle Wading	Mcton-farming	Fishing
Industrial Area	D/S of Town of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1	N 2 5 . 6	TURBIDITY JT/NTU	0	2 1 0 1	N
pH	1	0 3 0 2	N 7 . 1 4	VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0	2 0 4 1	N	(i) CURRENT METER	0	2 2 0 1	N
ALKALINITY mg/L				(ii) FLOT	0	2 2 0 2	N
(i) ELECTROMETRIC	1	0 1 0 1	N	(iii)CHEMICAL	0	2 2 0 3	N
(ii) VISUAL TITRATION	1	0 1 0 2	N	TOTAL KJLDAHL NITROGEN mg/L			
Nitrate Nitrogen (NO ₃) mg/L	0	7 1 0 5	N 0 . 4	(i) TITRATION	0	7 0 0 1	N
DISSOLVED OXYGEN mg/L	0	8 1 0 1	N 7 . 2	(ii) NESSELERIZATION	0	7 0 0 4	N
B.O.D. mg/L	0	8 2 0 1	N 1 . 0	HARDNESS as CaCO ₃ mg/L	2	2 1 0 1	N 7 0 . 0
C.O.D mg/L	0	8 3 0 1	N 1 0 . 0	TOTAL COLIFORM MPN/100 ml	2	2 1 0 1	N
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3	N 2 9 3 . 0
(i) ARGENTOMETRIC	1	7 2 0 1	N	FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4	N
(ii) MERCURIMETRIC	1	7 2 0 1	N	AMMONICAL NITROGEN mg/L			
SULPHATE mg/L				(i) COLOURIMETRY	0	7 5 5 5	N
(i) GRAVIMETRIC	1	6 3 0 1	N	(ii) DISTILLATION TITRATION	0	7 5 5 1	N
(ii) TURBIDIMETRIC	1	6 3 0 2	N	BORON DISSOLVED mg/L	0	5 1 0 5	N
SODIUM mg/L	1	1 1 0 3	N	PHOSPHATE mg/L			
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1	N	NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3	N				
FECAL COLIFORM MPN/100 ML	3	6 0 1 1	N				
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By
B.P. Mishra

Checked By
B.P. Mishra

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
3 1 7 0

MINARS / GEMS

Annexure-VI

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 5 0 9 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. > 100 cm. Float

5. COLOUR & INTENSITY ODOUR

Clear Turbidity Green Brown Light 2= Moderate 3= High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishy H₂S Other None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

U/S of Town of Industrial Area
Cattle Wading
D/S of Town of Industrial Area
Melon farming
Pilgrim Centre
Bathing Ghat
Abstraction for Water Supply
Fishing

STATION- Drinking Water intake well of Municipal cop. Korba after treatment plant at kohadia village Korba.

TYPE- River Water

COMPLETED BY- B.P. Mishra, Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 . 5		
pH	1 0 3 0 2 N 7 . 1 8		
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 7 6 . 0	
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate Nitrogen (NO ₃) mg/L	0 7 1 0 5 N 0 . 2		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 7 . 4		
B.O.D. mg/L	0 8 2 0 1 N 0 . 4		
C.O.D mg/L	0 8 3 0 1 N 6 . 0		
CHLORIDE mg/L		N 2 0 . 9 9	
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L		N 6 . 0	
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 4 0 . 0		
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 0 . 0		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JTU/NTU	0 2 1 0 1 N		
VELOCITY OF FLOW. m/sec		N	
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOT	0 2 2 0 2 N		
(iii)CHEMICAL	0 2 2 0 3 N		
TOTAL KILDAHL NITROGEN mg/L		N	
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 7 0 . 0		
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 2 1 . 0		
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L		0 . 3	
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L		0 . 1	
NITRITE mg/L		0 . 0 3	

B.P. Mishra
Analysed By

(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

1. STATION CODE

3 1 6 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 5 0 9 1 7

3. WEATHER

Cloudy Clear Windy Raining
 <50 cm. 50-100 cm. >100cm Flood

4. APPROX DEPTH OF MAIN STREAM

1 1 4 5

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown 1 = Light 2 = Moderate 3 = High
 None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
 9. LOCATION DETAIL

Cattle Wading Melon farming Fishing
 U/S of Town of Industrial Area D/S of Town of Industrial Area Abstraction for Water Supply
 Bathing Ghat

STATION- Drinking Water intake well of Municipal cop. Korba before treatment plant at kohadia village Korba.

TYPE- River Water

COMPLETED BY- B.P. Mishra , Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 7		
pH	1 0 3 0 2 N 7 1 4		
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L	N 6 8 0		
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 3		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6 8		
B.O.D. mg/L	0 8 2 0 1 N 1 0		
C.O.D mg/L	0 8 3 0 1 N 1 6 0		
CHLORIDE mg/L	N 1 7 9 9		
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L	N 1 0 0		
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 4 0		
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 2 0		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

Analysed By

Chaitanya

Regional Officer

DETERMINAND	CODE	AQCFLAG	VALUE
TURBIDITY JT/UNTU	0 2 1 0 1 N		
VELOCITY OF FLOW. m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KILDAHL NITROGEN mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 6 0		
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 9 5 0		
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L			
NITRITE mg/L			

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 2 0 9 1 7 0 3 2 0

WEATHER

Cloudy - Clear - Windy - Raining
 < 50 cm. - 50-100 cm. - >100cm - Flood

APPROX DEPTH OF MAIN STREAM

COLOUR & INTENSITY ODOUR

Clear - Turbid - Green - Brown - Light - Moderate - High
 None - Fishy - H₂S - Other

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High
 Cattle Wading Melon Farming Fishing

HUMAN ACTIVITIES AROUND STATION

LOCATION DETAIL

U/S of Town of Industrial Area D/S of Town of Industrial Area Pilgrim Centre/ Bathing Ghat Abstraction for Water Supply

ARBITRARY

DETERMINAND	CODE	QCFLAG	VALUE	DETERMINAD	CODE	QCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5	8		TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7	1 4		VELOCITY OF FLOW. m/sec		N	
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L		N 7 6	0	(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KILDAHL NITROGEN mg/L		N	
Nitrate Nitrogen (NO ₃) mg/L	0 7 1 0 5 N 0	6		(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6	0		(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 2	0		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 4	0	
C.O.D mg/L	0 8 3 0 1 N 3 6	0		TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L		N 2 3	9 9	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 3 2 4	0	
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L		0	8
SULPHATE mg/L		N 1 6	0	(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L		0	5
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 4	0		NITRITE (NO ₂) mg/L		0	0 6
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 0	0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

1. STATION CODE

3	1	6	5
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2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1	2	0	9	1	7
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3. WEATHER

Cloudy	Gleer	Windy	Raining
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4. APPROX DEPTH OF MAIN STREAM

<50cm	50-100 cm.	>100cm	Flood
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5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2= Moderate	3= High
None	Fisty	H ₂ S	Other			

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
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8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading	Melon-farming	Fishing
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9. LOCATION DETAIL

U/S of Town of Industrial Area	D/S of Town of Pilgrim-Centre/ Bathing Ghat	Abstraction for Water Supply
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ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5 . 8		TURBIDITY JTU/NTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N 7 . 1 2		VELOCITY OF FLOW. m/sec			
CONDUCTIVITY µmhos/cm	0	2 0 4 1 N		(i) CURRENT METER	0	2 2 0 1 N	
ALKALINITY mg/L				(ii) FLOT	0	2 2 0 2 N	
(i) ELECTROMETRIC	1	0 1 0 1 N		(iii)CHEMICAL	0	2 2 0 3 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N		TOTAL KJLDAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) mg/L	0	7 1 0 5 N 0 . 5		(i) TITRATION	0	7 0 0 1 N	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 6 . 6		(ii) NESSELERIZATION	0	7 0 0 4 N	
B.O.D. mg/L	0	8 2 0 1 N 1 . 4		HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 6 2 . 0	
C.O.D mg/L	0	8 3 0 1 N 2 6 . 0		TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N 3 1 0 . 0	
(i) ARGENTOMETRIC	1	7 2 0 1 N		FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N		AMMONICAL NITROGEN mg/L			
SULPHATE mg/L				(i) COLOURIMETRY	0	7 5 5 5 N	
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N		BORON DISSOLVED mg/L	0	5 1 0 5 N	
SODIUM mg/L	1	1 1 0 3 N		PHOSPHATE mg/L			
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 0 . 0		NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 2 . 0					
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By
Bhuma

Checked
Chaitanya

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS Annexure-VI

M I N D A T / G L O W D A T

STATION CODE	1	1	0	5		
DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	8	0	9	1	7

WEATHER	Cloudy	Clear	Windy	Rainning
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APPROX DEPTH OF MAIN STREAM	<50 cm.	50-100 cm.	>100 cm.	Float
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COLOUR & INTENSITY ODOUR	Clear	Turbid	Green	Brown	Light	2 = Moderate	3 = High
	None	Fisty	H ₂ S	Other			

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	None	Moderate	High
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HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL	Cattle Wading	Motom-farming	Fishing
	U/S of Town of Industrial Area	D/S of Town of Industrial Area	Abstraction for Water Supply

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5 7	
pH	1	0 3 0 2 N 7 1 6	
CONDUCTIVITY μmhos/cm	0	2 0 4 1 N	
ALKALINITY mg/L		N 7 8 0	
(i) ELECTROMETRIC	1	0 1 0 1 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N	
Nitrate Nitrogen (NO ₃) mg/L	0	7 1 0 5 N 0 3	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 7 4	
B.O.D. mg/L	0	8 2 0 1 N 1 0	
C.O.D mg/L	0	8 3 0 1 N 1 2 0	
CHLORIDE mg/L		N 1 8 9 9	
(i) ARGENTOMETRIC	1	7 2 0 1 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N	
SULPHATE mg/L		N 1 4 0	
(i) GRAVIMETRIC	1	6 3 0 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N	
SODIUM mg/L	1	1 1 0 3 N	
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 4 0	
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 8 0	
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE M ³ /s			

Analysed By *Bhaskar*

Chandrasekhar
Chemist

Registered Officer

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JTU/NTU	0	2 1 0 1 N	
VELOCITY OF FLOW. m/sec			
(i) CURRENT METER	0	2 2 0 1 N	
(ii) FLOT	0	2 2 0 2 N	
(iii)CHEMICAL	0	2 2 0 3 N	
TOTAL KjLDAHL NITROGEN mg/L			
(i) TITRATION	0	7 0 0 1 N	
(ii) NESSELERIZATION	0	7 0 0 4 N	
HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 7 2 0	
TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N 2 9 3 0	
FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4 N	
AMMONICAL NITROGEN mg/L			
(i) COLOURIMETRY	0	7 5 5 5 N	
(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
BORON DISSOLVED mg/L	0	5 1 0 5 N	
PHOSPHATE mg/L			
NITRITE mg/L			

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1. STATION CODE

3 1 7 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 3 1 0 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 feet 50-100 feet > 100 feet Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown Light 2 Moderate 3 High
None Fishy H₂S Other None Moderate High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

Cattle Wading D/S of Toward of Industrial Area

8. HUMAN ACTIVITIES AROUND STATION

Melon farming Pilgrim Centre Fishing

9. LOCATION DETAIL

U/S of Town of Industrial Area Bathing Ghat Abstraction for Water Supply

M I N D A T / G L O W D A T

STATION- Bore well / hand pump in Dhanras NTPC Korba

TYPE- Ground Water

COMPLETED BY- B.P. Mishra & S. Singh Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 6	2	TURBIDITY JTU/NTU	0 2 1 0 1 N	
pH	1	0 3 0 2 N 7	1 4	VELOCITY OF FLOW. m/sec		
CONDUCTIVITY μmhos/cm	0	2 0 4 1 N		(i) CURRENT METER	0 2 2 0 1 N	
ALKALINITY mg/L		N 1 5 2	0	(ii) FLOT	0 2 2 0 2 N	
(i) ELECTROMETRIC	1	0 1 0 1 N		(iii)CHEMICAL	0 2 2 0 3 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N		TOTAL KJLDAHL NITROGEN mg/L		
Nitrate NITROGEN (NO ₃) mg/L	0	7 1 0 5 N 1 L		(i) TITRATION	0 7 0 0 1 N	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 1	4	(ii) NESSELERIZATION	0 7 0 0 4 N	
B.O.D. mg/L	0	8 2 0 1 N 0	4	HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	7 4 0
C.O.D mg/L	0	8 3 0 1 N 1 2	0	TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N	
CHLORIDE mg/L		N 2 8	9 9	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	2 2 0
(i) ARGENTOMETRIC	1	7 2 0 1 N		FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N		AMMONICAL NITROGEN mg/L		0 5
SULPHATE mg/L		N 8	0	(i) COLOURIMETRY	0 7 5 5 5 N	
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISTILLATION TITRATION	0 7 5 5 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N		BORON DISSOLVED mg/L	0 5 1 0 5 N	
SODIUM mg/L	1	1 1 0 3 N		PHOSPHATE mg/L		0 6
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 4 4	0	NITRITE mg/L		N 1 L
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 0	0			
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N				
INSTANTANEOUS DISCHARGE M ³ /s						

Analysed By

Chemist

Regional Officer

STATION CODE

3 1 7 3

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 3 1 0 1 7

M I N D A T / G L O W D A T

WEATHER

Cloudy	Clear	Windy	Raining
<50 feet	50-100 feet	>100 feet	Flood

APPROX DEPTH OF MAIN STREAM

STATION- Bore well / hand pump in parsabhata
Balco Korba
TYPE- Ground Water

COLOUR & INTENSITY
ODOUR

Clear	Turbid	Green	Brown	1 = Fight	2 = Moderate	3 = High
None	Fishy	H ₂ S	Other			

COMPLETED BY- B.P.Mishra
Lab. Asst.-II

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
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VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation
Board, Korba

HUMAN ACTIVITIES AROUND STATION
LOCATION DETAIL

U/S of Town of Industrial Area	Cattle Wading	Melon farming	Fishing
D/S of Town of Industrial Area	Pilgrim-Centre/ Bathing Ghat	Abstraction for Water Supply	

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQCLAG						VALUE
TEMPERATURE	0	2	0	0	1	2	6	3
pH	1	0	3	0	2	N	7	1
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N		
ALKALINITY mg/L					N	2	1	2
(i) ELECTROMETRIC	1	0	1	0	1	N		
(ii) VISUAL TITRATION	1	0	1	0	2	N		
Nitrate NITROGEN (NO ₃) mg/L	0	7	1	0	5	N	1	L
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	1	8
B.O.D. mg/L	0	8	2	0	1	N	0	4
C.O.D mg/L	0	8	3	0	1	N	6	0
CHLORIDE mg/L					N	3	2	9
(i) ARGENTOMETRIC	1	7	2	0	1	N		
(ii) MERCURIMETRIC	1	7	2	0	1	N		
SULPHATE mg/L					N	1	6	0
(i) GRAVIMETRIC	1	6	3	0	1	N		
(ii) TURBIDIMETRIC	1	6	3	0	2	N		
SODIUM mg/L	1	1	1	0	3	N		
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N	8	2
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N	8	8
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N		
INSTANTANEOUS DISCHARGE M ³ /s								

Analysed By

Christ

Regional Officer

DETERMINAND	CODE	AQCLAG						VALUE
TURBIDITY JTU/NTU	0	2	1	0	1	N		
VELOCITY OF FLOW. m/sec						N		
(i) CURRENT METER	0	2	2	0	1	N		
(ii) FLOT	0	2	2	0	2	N		
(iii) CHEMICAL	0	2	2	0	3	N		
TOTAL KJLDAHL NITROGEN mg/L						N		
(i) TITRATION	0	7	0	0	1	N		
(ii) NESSELERIZATION	0	7	0	0	4	N		
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	1	
TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N	0	
TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	2	
FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N	7	
AMMONICAL NITROGEN mg/L							0	
(i) COLOURIMETRY	0	7	5	5	5	N	4	
(ii) DISTILLATION TITRATION	0	7	5	5	1	N		
BORON DISSOLVED mg/L	0	5	1	0	5	N		
PHOSPHATE mg/L							1	
NITRITE mg/L							N	

STATION CODE
3 1 7 2

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)
2 3 1 0 1 7

WEATHER
Clear

Windy

Rainfall
1 2 0 5

APPROX DEPTH
-50-100 feet

COLOUR & INTENSITY
Green

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
None

HUMAN ACTIVITIES AROUND STATION
Cattle Wading

LOCATION DETAIL
D/S of Town of Industrial Area

STATION- Bore well / hand pump in rog bahari village korba

TYPE- Ground Water

COMPLETED BY- B.P. Mishra
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	QCFLAG	VALUE	DETERMINAD	CODE	QCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 1 N 2 6	1		TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7	2 3		VELOCITY OF FLOW. m/sec		N	
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L		N 1 3 8	0	(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KILDAHL NITROGEN mg/L		N	
Nitrate Nitrogen (NO ₃) mg/L	0 7 1 0 5 N 1 L			(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 2	2		(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 0	2		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 9 0	0	
C.O.D mg/L	0 8 3 0 1 N 8	0		TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L		N 3 7	9 8	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 0 9	0	
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L			
SULPHATE mg/L		N 1 4	0	(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L		0	8
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 5 8	0		NITRITE mg/L		N	L
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 2	0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Analyst

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
3 1 7 0

MINARS / GEMS

Annexure-VI

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 3 1 0 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. >100cm. Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown Light 2 Moderate 3 High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishy H₂S Other None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon farming Fishing

9. LOCATION DETAIL

U/S of Tower of Industrial Area D/S of Tower of Industrial Area Bathing Ghat Abstraction for Water Supply

STATION- Drinking Water intake well of Municipal cop. Korba after treatment plant at kohadia village Korba.

TYPE- River Water

COMPLETED BY- B.P. Mishra Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAD	CODE	AQFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5	8		TURBIDITY JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7	1 5		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L				(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJLDAHL NITROGEN mg/L			
Nitrate Nitrogen (NO ₃) mg/L	0 7 1 0 5 N 0	3		(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 7	2		(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 0	4		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 4	0	
C.O.D mg/L	0 8 3 0 1 N 4	0		TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 4 1	0	
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L			
SULPHATE mg/L				(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L			
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 6	0		NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 0	0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Charist

Registered Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS

Annexure-VI

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 7 1 0 1 7 0 2 1 0

M I N D A T / G L O W D A T

3. WEATHER

Cloudy Clear Windy Raining
 < 50 cm. 50-100 cm. > 100 cm. Flood

4. APPROX DEPTH OF MAIN STREAM

STATION- Down Stream of Hosdev River
 Near Urga Village Korba
 TYPE- River Water

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown 1 2 3 4
 None Fishy High Other

COMPLETED BY- B.P. Mishra,
 Lab. Asst.-II

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Moderate High
 Cattle Wading Melon farming Fishing

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
 AGENCY - C.G. Environment Conservation
 Board, Korba

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

U/S of Town of Industrial Area D/S of Town of Pilgrim-Centre/ Bathing Ghat Abstraction for Water Supply

ARBITRARY

DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAD	CODE	AQFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 7			TURBIDITY JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 1 5			VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L		N 7 4 0		(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KILDAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 7			(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6 2			(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 1 8			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 8 0		
C.O.D mg/L	0 8 3 0 1 N 3 2 0			TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L		N 2 7 9 9		TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 3 1 4 0		
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L			
SULPHATE mg/L		N 1 4 0		(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L			0 6
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 6 0			NITRITE mg/L			0 0 8
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 2 0						
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Checked

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS

Annexure-VI

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 7 1 0 1 7

1 1 5 0

M I N D A T / G L O W D A T

3. WEATHER

Steady Clear

Windy

Refracting

4. APPROX DEPTH OF MAIN STREAM

< 50 cm.

> 100cm

Flood

5. COLOUR & INTENSITY ODOUR

Clear

Turbid

Brown

High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None

Moderate

High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading

Fishing

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1	N 2 5 . 7	TURBIDITY JTU/NTU	0	2 1 0 1	N
pH	1	0 3 0 2	N 7 . 1 1	VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0	2 0 4 1	N	(i) CURRENT METER	0	2 2 0 1	N
ALKALINITY mg/L			N 6 8 . 0	(ii) FLOT	0	2 2 0 2	N
(i) ELECTROMETRIC	1	0 1 0 1	N	(iii)CHEMICAL	0	2 2 0 3	N
(ii) VISUAL TITRATION	1	0 1 0 2	N	TOTAL KILDAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) mg/L	0	7 1 0 5	N 0 . 6	(i) TITRATION	0	7 0 0 1	N
DISSOLVED OXYGEN mg/L	0	8 1 0 1	N 6 . 4	(ii) NESSELERIZATION	0	7 0 0 4	N
B.O.D. mg/L	0	8 2 0 1	N 1 . 6	HARDNESS as CaCO ₃ mg/L	2	2 1 0 1	N 6 4 . 0
C.O.D mg/L	0	8 3 0 1	N 2 4 . 0	TOTAL COLIFORM MPN/100 ml	2	2 1 0 1	N
CHLORIDE mg/L			N 1 9 . 9 9	TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3	N 3 0 9 . 0
(i) ARGENTOMETRIC	1	7 2 0 1	N	FIXED DISSOLVED SOLIDS mg/L	4	4 4 4 4	N
(ii) MERCURIMETRIC	1	7 2 0 1	N	AMMONICAL NITROGEN mg/L			
SULPHATE mg/L			N 1 0 . 0	(i) COLOURIMETRY	0	7 5 5 5	N
(i) GRAVIMETRIC	1	6 3 0 1	N	(ii) DISTILLATION TITRATION	0	7 5 5 1	N
(ii) TURBIDIMETRIC	1	6 3 0 2	N	BORON DISSOLVED mg/L	0	5 1 0 5	N
SODIUM mg/L	1	1 1 0 3	N	PHOSPHATE mg/L			
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1	N 3 2 . 0	NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3	N 3 2 . 0				
FECAL COLIFORM MPN/100 ML	3	6 0 1 1	N				
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Signature

Registered Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

STATION CODE

1 1 0 5

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3 0 1 0 1 7

WEATHER

Cloudy Clear Windy Raining

APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. > 100cm

COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown Height 2 2 = Moderate 3 = High
None Fishy H₂S Other

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT Conservation

None Moderate High

HUMAN ACTIVITIES AROUND STATION

Cattle Wading Mefom-farming Fishing

LOCATION DETAIL

U/S of Town of Industrial Area D/S of Town of Industrial Area Pilgrim Centre/ Abstraction for Bathing Ghat Water Supply

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5 . 6	
pH	1	0 3 0 2 N 7 . 1 4	
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N	
ALKALINITY mg/L		N 7 2 . 0	
(i) ELECTROMETRIC	1	0 1 0 1 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N	
Nitrate NITROGEN (NO ₃) mg/L	0	7 1 0 5 N 0 . 2	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 7 . 2	
B.O.D. mg/L	0	8 2 0 1 N 0 . 6	
C.O.D mg/L	0	8 3 0 1 N 1 0 . 0	
CHLORIDE mg/L		N 1 7 . 9 9	
(i) ARGENTOMETRIC	1	7 2 0 1 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N	
SULPHATE mg/L		N 8 . 0	
(i) GRAVIMETRIC	1	6 3 0 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N	
SODIUM mg/L	1	1 1 0 3 N	
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 6 . 0	
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 2 . 0	
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE M ³ /s			

Blancy Co. Analysed By

Chief

M I N D A T / G L O W D A T

STATION- Up Stream of Hasdeo Bango, Hydel Power Station, Machadoli, Korba
TYPE - River Water

COMPLETED BY- B.P. Mishra, Lab Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Board, Korba
Other

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JTU/NTU	0 2	1 0 1 N	
VELOCITY OF FLOW. m/sec		N	
(i) CURRENT METER	0 2	2 0 1 N	
(ii) FLOT	0 2	2 0 2 N	
(iii) CHEMICAL	0 2	2 0 3 N	
TOTAL KILDAHL NITROGEN mg/L		N	
(i) TITRATION	0 7	0 0 1 N	
(ii) NESSELERIZATION	0 7	0 0 4 N	
HARDNESS as CaCO ₃ mg/L	2 2	1 0 1 N 6 8 . 0	
TOTAL COLIFORM MPN/100 ml	2 2	1 0 1 N	
TOTAL DISSOLVED SOLIDS mg/L	3 3	3 3 3 N 2 8 9 . 0	
FIXED DISSOLVED SOLIDS mg/L	4 4	4 4 4 N	
AMMONICAL NITROGEN mg/L		0 . 3	
(i) COLOURIMETRY	0 7	5 5 5 N	
(ii) DISTILLATION TITRATION	0 7	5 5 1 N	
BORON DISSOLVED mg/L	0 5	1 0 5 N	
PHOSPHATE mg/L		0 . 3	
NITRITE mg/L		0 . 0 5	

Regional Officer

1. STATION CODE

3 1 7 0

MINARS / GEMS

Annexure-VI

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 4 1 1 1 1 7

M I N D A T / G L O W D A T

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. > 100cm Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown 1 - Bright 2 - Moderate 3 - High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishy H₂S Other None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon farming Fishing

9. LOCATION DETAIL

U/S of Town of Industrial Area D/S of Town of Industrial Area Bathing Ghat Abstraction for Water Supply

ARBITRARY

DETERMINAND

AQCFLAG

DETERMINAD

CODE

AQCFLAG

VALUE

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5	5
pH	1	0 3 0 2 N 7	1 6
CONDUCTIVITY $\mu\text{mhos/cm}$	0	2 0 4 1 N	
ALKALINITY mg/L		N 7 6	0
(i) ELECTROMETRIC	1	0 1 0 1 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N	
Nitrate NITROGEN (NO ₃) mg/L	0	7 1 0 5 N 0	2
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 7	4
B.O.D. mg/L	0	8 2 0 1 N 0	6
C.O.D mg/L	0	8 3 0 1 N 4	0
CHLORIDE mg/L		N 2 0	9 9
(i) ARGENTOMETRIC	1	7 2 0 1 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N	
SULPHATE mg/L		N 8	0
(i) GRAVIMETRIC	1	6 3 0 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N	
SODIUM mg/L	1	1 1 0 3 N	
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 8	0
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 2 6	0
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JT/UNTU	0 2	1 0 1 N	
VELOCITY OF FLOW. m/sec			
(i) CURRENT METER	0 2	2 0 1 N	
(ii) FLOT	0 2	2 0 2 N	
(iii) CHEMICAL	0 2	2 0 3 N	
TOTAL KJLDAHL NITROGEN mg/L			
(i) TITRATION	0 7	0 0 1 N	
(ii) NESSELERIZATION	0 7	0 0 4 N	
HARDNESS as CaCO ₃ mg/L	2 2	1 0 1 N	6 4 0
TOTAL COLIFORM MPN/100 ml	2 2	1 0 1 N	
TOTAL DISSOLVED SOLIDS mg/L	3 3	3 3 3 N	2 2 4 0
FIXED DISSOLVED SOLIDS mg/L	4 4	4 4 4 N	
AMMONICAL NITROGEN mg/L			0 3
(i) COLOURIMETRY	0 7	5 5 5 N	
(ii) DISTILLATION TITRATION	0 7	5 5 1 N	
BORON DISSOLVED mg/L	0 5	1 0 5 N	
PHOSPHATE mg/L			0 2
NITRITE mg/L			0 0 3

STATION- Drinking Water intake well of Municipal cop. Korba after treatment plant at kohadia village Korba.

TYPE- River Water

COMPLETED BY- B.P. Mishra, Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Conservation Board, Korba

Other

B.P. Mishra

Signature

Signature

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

STATION CODE

3 1 6 9

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 4 1 1 1 7

WEATHER

Cloudy	Clear	Windy	Raining
<50 cm.	50-100 cm.	>100cm	Flood

APPROX DEPTH OF MAIN STREAM

COLOUR & INTENSITY
ODOUR

Clear	Turbid	Green	Brown	Light	2 = Moderate	3 = High
None	Fishy	H ₂ S	Other	Moderate		High

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

HUMAN ACTIVITIES AROUND STATION
LOCATION DETAIL

U/S of Town of Industrial Area	Cattle Wading	Melon-farming	Fishing
	D/S of Low of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply

M I N D A T / G L O W D A T

STATION- Drinking Water intake well of Municipal cop. Korba before treatment plant at kohadia village Korba
TYPE- River Water

COMPLETED BY- B.P. Mishra , Lab. Asst.-II
VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AQCF LAG					VALUE	DETERMINAD	CODE	AQCF LAG					VALUE
TEMPERATURE	0	2	0	0	1	2	5	TURBIDITY JT/NTU	0	2	1	0	1	N	
pH	1	0	3	0	2	N	7	VELOCITY OF FLOW. m/sec						N	
CONDUCTIVITY μmhos/cm	0	2	0	4	1	N		(i) CURRENT METER	0	2	2	0	1	N	
ALKALINITY mg/L								(ii) FLOT	0	2	2	0	2	N	
(i) ELECTROMETRIC	1	0	1	0	1	N		(iii)CHEMICAL	0	2	2	0	3	N	
(ii) VISUAL TITRATION	1	0	1	0	2	N		TOTAL KJLDAHL NITROGEN mg/L						N	
Nitrate Nitrogen (NO ₃) mg/L	0	7	1	0	5	N	0	(i) TITRATION	0	7	0	0	1	N	
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	7	(ii) NESSELERIZATION	0	7	0	0	4	N	
B.O.D. mg/L	0	8	2	0	1	N	1	HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	
C.O.D mg/L	0	8	3	0	1	N	1	TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N	
CHLORIDE mg/L								TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	
(i) ARGENTOMETRIC	1	7	2	0	1	N		FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N	
(ii) MERCURIMETRIC	1	7	2	0	1	N		AMMONICAL NITROGEN mg/L						0	
SULPHATE mg/L								(i) COLOURIMETRY	0	7	5	5	5	N	
(i) GRAVIMETRIC	1	6	3	0	1	N		(ii) DISTILLATION TITRATION	0	7	5	5	1	N	
(ii) TURBIDIMETRIC	1	6	3	0	2	N		BORON DISSOLVED mg/L	0	5	1	0	5	N	
SODIUM mg/L	1	1	1	0	3	N		PHOSPHATE mg/L						0	
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N	3	NITRITE mg/L						0	
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N	3							0	
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N									
INSTANTANEOUS DISCHARGE M ³ /s															

B.P. Mishra
Analyst Rv

[Signature]

[Signature]

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS

Annexure-VI

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 5 1 1 1 7

M I N D A T / G L O W D A T

3. WEATHER

Steady Clear Windy Raining
 < 50 cm. 30-100 cm. → 100cm Flood

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY
 ODOUR

Clear Turbid Green Brown 1 = Light 2 = Moderate 3 = High
 None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon farming Fishing

9. LOCATION DETAIL

U/S of Town of Industrial Area D/S of Town of Industrial Area Pilgrim-Centre/ Bathing Chat Abstraction for Water Supply

STATION- Down Stream of Hosdev River
 Near Urga Village Korba
 TYPE- River Water

COMPLETED BY- B.P. Mishra,
 Lab. Asst.-II
 VERIFIED BY - B.P. Mishra, Lab. Asst.-II
 AGENCY - C.G. Environment Conservation
 Board, Korba

ARBITRARY

DETERMINAND	CODE	AQCFLAG					VALUE
TEMPERATURE	0 2 0 0 1	N	2	5	5		
pH	1 0 3 0 2	N	7	1	6		
CONDUCTIVITY μmhos/cm	0 2 0 4 1	N					
ALKALINITY mg/L		N	7	6	0		
(i) ELECTROMETRIC	1 0 1 0 1	N					
(ii) VISUAL TITRATION	1 0 1 0 2	N					
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5	N	0	7			
DISSOLVED OXYGEN mg/L	0 8 1 0 1	N	6	2			
B.O.D. mg/L	0 8 2 0 1	N	2	2			
C.O.D mg/L	0 8 3 0 1	N	3	2	0		
CHLORIDE mg/L		N	2	5	9		
(i) ARGENTOMETRIC	1 7 2 0 1	N					
(ii) MERCURIMETRIC	1 7 2 0 1	N					
SULPHATE mg/L		N	1	4	0		
(i) GRAVIMETRIC	1 6 3 0 1	N					
(ii) TURBIDIMETRIC	1 6 3 0 2	N					
SODIUM mg/L	1 1 1 0 3	N					
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1	N	3	6	0		
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3	N	3	2	0		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1	N					
INSTANTANEOUS DISCHARGE M ³ /s							

DETERMINAD	CODE	AQCFLAG					VALUE
TURBIDITY JTU/NTU	0 2 1 0 1	N					
VELOCITY OF FLOW. m/sec							
(i) CURRENT METER	0 2 2 0 1	N					
(ii) FLOT	0 2 2 0 2	N					
(iii) CHEMICAL	0 2 2 0 3	N					
TOTAL KILDAHL NITROGEN mg/L							
(i) TITRATION	0 7 0 0 1	N					
(ii) NESSELERIZATION	0 7 0 0 4	N					
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1	N	7	6	0		
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1	N					
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3	N	3	2	1	0	
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4	N					
AMMONICAL NITROGEN mg/L							
(i) COLOURIMETRY	0 7 5 5 5	N					
(ii) DISTILLATION TITRATION	0 7 5 5 1	N					
BORON DISSOLVED mg/L	0 5 1 0 5	N					
PHOSPHATE mg/L						0 . 7	
NITRITE (NO ₂) mg/L						0 . 0 6	

Analysed By

Chief

Regional officer

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 2 2 5

1 5 1 1 1 7

M I N D A T / G L O W D A T

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm 50-100 cm >100cm Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Brown None H₂S Other Light 2 Moderate 3 High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon farming Fishing

9. LOCATION DETAIL

U/S of Town of Industrial Area D/S of Town of Industrial Area Bathing Ghat Abstraction for Water Supply

ARBITRARY

DETERMINAND	CODE	AQCF LAG					DETERMINAD	CODE	AQCF LAG					VALUE				
TEMPERATURE	0	2	0	0	1	N	2	5	5	TURBIDITY JT/UNTU	0	2	1	0	1	N	VALUE	
pH	1	0	3	0	2	N	7	1	2	VELOCITY OF FLOW. m/sec								
CONDUCTIVITY μmhos/cm	0	2	0	4	1	N				(i) CURRENT METER	0	2	2	0	1	N		
ALKALINITY mg/L						N	7	0	0	(ii) FLOT	0	2	2	0	2	N		
(i) ELECTROMETRIC	1	0	1	0	1	N				(iii) CHEMICAL	0	2	2	0	3	N		
(ii) VISUAL TITRATION	1	0	1	0	2	N			TOTAL KILDAHL NITROGEN mg/L	(i) TITRATION	0	7	0	0	1	N		
Nitrate NITROGEN (NO ₃) mg/L	0	7	1	0	5	N	0	5	(ii) NESSELERIZATION	(ii) NESSELERIZATION	0	7	0	0	4	N		
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	6	6	HARDNESS as CaCO ₃ mg/L	HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	6	
B.O.D. mg/L	0	8	2	0	1	N	1	8	TOTAL COLIFORM MPN/100 ml	TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N	6	
C.O.D mg/L	0	8	3	0	1	N	2	6	TOTAL DISSOLVED SOLIDS mg/L	TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	3	
CHLORIDE mg/L						N	1	8	FIXED DISSOLVED SOLIDS mg/L	FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N	0	
(i) ARGENTOMETRIC	1	7	2	0	1	N			AMMONICAL NITROGEN mg/L	AMMONICAL NITROGEN mg/L	4	4	4	4	4	N	0	
(ii) MERCURIMETRIC	1	7	2	0	1	N			(i) COLOURIMETRY	(i) COLOURIMETRY	0	7	5	5	5	N	6	
SULPHATE mg/L						N	8	0	(ii) DISTILLATION TITRATION	(ii) DISTILLATION TITRATION	0	7	5	5	1	N	0	
(i) GRAVIMETRIC	1	6	3	0	1	N			BORON DISSOLVED mg/L	BORON DISSOLVED mg/L	0	5	1	0	5	N	5	
(ii) TURBIDIMETRIC	1	6	3	0	2	N			PHOSPHATE mg/L	PHOSPHATE mg/L							0	
SODIUM mg/L	1	1	1	0	3	N			NITRITE mg/L	NITRITE mg/L							0	
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N	3	4									0	
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N	2	8									0	
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N											4	
INSTANTANEOUS DISCHARGE M ³ /s																		

B.P. Mishra

Analysed By

Analyst

Regional Officer

STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1	1	0	5
2	5	1	1
3	1	2	5

M I N D A T / G L O W D A T

WEATHER:

Cloudy	Clear	Windy	Rainy

APPROX DEPTH OF MAIN STREAM

<50cm	50-100 cm	>100cm	Flood

COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fishy	H ₂ S	Other					

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None	Moderate	High
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HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

Cattle Wading	Melon farming	Fishing
D/S of Town of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply

ARBITRARY

DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAD	CODE	AQFLAG	VALUE
TEMPERATURE	0	2 0 0	1 N 2 5 . 5	TURBIDITY JTU/NTU	0	2 1 0	1 N
pH	1	0 3 0	2 N 7 . 1 5	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY μ mhos/cm	0	2 0 4	1 N	(i) CURRENT METER	0	2 2 0	1 N
ALKALINITY mg/L				(ii) FLOT	0	2 2 0	2 N
(i) ELECTROMETRIC	1	0 1 0	1 N	(iii) CHEMICAL	0	2 2 0	3 N
(ii) VISUAL TITRATION	1	0 1 0	2 N	TOTAL KJLDAHL NITROGEN mg/L			
Nitrate Nitrogen (NO ₃) mg/L	0	7 1 0	5 N 0 . 2	(i) TITRATION	0	7 0 0	1 N
DISSOLVED OXYGEN mg/L	0	8 1 0	1 N 7 . 4	(ii) NESSELERIZATION	0	7 0 0	4 N
B.O.D. mg/L	0	8 2 0	1 N 0 . 8	HARDNESS as CaCO ₃ mg/L	2	2 1 0	1 N 7 0 . 0
C.O.D. mg/L	0	8 3 0	1 N 1 2 . 0	TOTAL COLIFORM MPN/100 ml	2	2 1 0	1 N
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3	3 N 2 8 7 . 0
(i) ARGENTOMETRIC	1	7 2 0	1 N	FIXED DISSOLVED SOLIDS mg/L	4	4 4 4	4 N
(ii) MERCURIMETRIC	1	7 2 0	1 N	AMMONICAL NITROGEN mg/L			
SULPHATE mg/L				(i) COLOURIMETRY	0	7 5 5	5 N
(i) GRAVIMETRIC	1	6 3 0	1 N	(ii) DISTILLATION TITRATION	0	7 5 5	1 N
(ii) TURBIDIMETRIC	1	6 3 0	2 N	BORON DISSOLVED mg/L	0	5 1 0	5 N
SODIUM mg/L	1	1 1 0	3 N	PHOSPHATE mg/L			
CALCIUM AS CaCO ₃ mg/L	2	0 1 0	1 N 3 8 . 0	NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0	3 N 3 2 . 0				
FECAL COLIFORM MPN/100 ML	3	6 0 1	1 N				
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Chemist

Registered Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

3 1 7 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 8 1 2 1 7

0 1 3 5

M I N D A T / G L O W D A T

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. >100cm Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown 1 = Light 2 = Moderate 3 = High
None Fishy H₂S Other None Moderate High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

Cattle Wading Melon farming Fishing

8. HUMAN ACTIVITIES AROUND STATION

D/S of Town of Industrial Area

9. LOCATION DETAIL

Abstraction for Water Supply
Bathing Ghat

ARBITRARY

TYPE- River Water

COMPLETED BY- B.P. Mishra, Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Conservation Board, Korba

Other

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N	2 5 4	
pH	1 0 3 0 2 N	7 1 7	
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 8 0 0	
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N	0 2	
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N	7 6	
B.O.D. mg/L	0 8 2 0 1 N	0 2	
C.O.D mg/L	0 8 3 0 1 N	4 0	
CHLORIDE mg/L		N 1 9 9 9	
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L		N 8 0	
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N	4 0 0	
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N	3 0 0	
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JTU/NTU	0 2 1 0 1 N		
VELOCITY OF FLOW. m/sec		N	
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KJLDAHL NITROGEN mg/L		N	
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	7 0 0	
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	2 3 2 0	
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L		0 4	
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L		0 3	
NITRITE mg/L		0 0 2	

Bfmy
Analysed By

[Signature]

[Signature]

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

1. STATION CODE

3 1 6 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 8 1 2 1 7

1 2 0 7

M I N D A T / G L O W D A T

3. WEATHER

Cloudy	Clear	Windy	Raining
<50 cm.	50-100 cm.	>100cm	Flood

4. APPROX DEPTH OF MAIN STREAM

Clear	Turbid	Green	Brown	Light	2= Moderate	3= High
None	Fisty	H ₂ S	Other	None	Moderate	High

5. COLOUR & INTENSITY ODOUR

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading	Melon farming	Fishing
D/S of Lower of Industrial Area	Pilgrim Centre	Abstraction for Water Supply
Industrial Area	Bathing Ghat	

COMPLETED BY- B.P. Mishra ,
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation
Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AQCLAG	VALUE	DETERMINAD	CODE	AQCLAG	VALUE
TEMPERATURE	0 2 0 0 1 N	2 5 3		TURBIDITY JT/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7 1 5		VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μmhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L				(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJLDAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N	0 4		(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N	7 2		(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N	0 8		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	6 8	0
C.O.D mg/L	0 8 3 0 1 N	1 4 0		TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L				TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	2 7 3	0
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L			
SULPHATE mg/L				(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L			
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N	3 6 0		NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N	3 2 0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

[Signature]

Responsible Officer

[Signature]

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR							
3	1	6	8				

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2	9	1	2	1	7	0	3	1	5
---	---	---	---	---	---	---	---	---	---

M I N D A T / G L O W D A T

3. WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	→100cm	Flood

STATION- Down Strem of Hosdev River
Near Urga Village Korba
TYPE- River Water

5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fishy	H ₂ S	Other					

COMPLETED BY- B.P. Mishra,
Lab. Asst.-II

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
Cattle Wading	Melon farming	Fishing

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

U/S of Town of Industrial Area	D/S of Town of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply
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ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5	4		TURBIDITY JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7	1 5		VELOCITY OF FLOW. m/sec		N	
CONDUCTIVITY μmhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L		N 7 8	0	(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii)CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJLDAHL NITROGEN mg/L		N	
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0	6		(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6	4		(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 2	0		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 7	4	0
C.O.D mg/L	0 8 3 0 1 N 2 8	0		TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
CHLORIDE mg/L		N 2 6	9 9	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 3	0 7	0
(i) ARGENTOMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N			AMMONICAL NITROGEN mg/L		0	7
SULPHATE mg/L		N 1 6	0	(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L		0	6
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 2	0		NITRITE (NO ₂) mg/L		0	0 8
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 4 2	0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Signature

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

1. STATION CODE

3 1 6 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 9 1 2 1 7

M I N D A T / G L O W D A T

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50 cm. 50-100 cm. >100cm Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown 1 Light 2 Moderate 3 High
None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon-farming Fishing

9. LOCATION DETAIL

U/S of Town of D/S of Town of Pilgrim-Centre Abstraction-for
Industrial-Area Industrial Area Bathing Ghat Water Supply

STATION- 100 Meter Down Sirem after confluence of Dengumallah near CSEB (F) Guest House Korba
TYPE- River Water

COMPLETED BY- B.P.Mishra Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II
AGENCY - C.G. Environment Conservation Board, Korba
Other

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 3		
pH	1 0 3 0 2 N 7 1 1		
CONDUCTIVITY μmhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L	N 7 2 0		
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 5		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 6 8		
B.O.D. mg/L	0 8 2 0 1 N 1 4		
C.O.D mg/L	0 8 3 0 1 N 2 2 0		
CHLORIDE mg/L	N 2 0 9 9		
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L	N 1 0 0		
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 6 0		
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 4 0		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JTU/NTU	0 2 1 0 1 N		
VELOCITY OF FLOW. m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOT	0 2 2 0 2 N		
(iii)CHEMICAL	0 2 2 0 3 N		
TOTAL KILDAHL NITROGEN mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4 N		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 7 0 0		
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 9 8 0		
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L			
NITRITE mg/L			

Analysed By

Chief

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1. STATION CODE

1 1 0 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

3 1 1 2 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50-100 cm. >100cm Flood

5. COLOUR & INTENSITY ODOUR

Clear Turbid Green Brown + Eight 2 Moderate 3 High
None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading Melon farming Fishing
D/S of Town of Industrial Area Pilgrim Centre/ Abstraction for Bathing Ghat Water Supply

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0	1 N 2 5	2	TURBIDITY JTU/NTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N 7	1 3	VELOCITY OF FLOW. m/sec			
CONDUCTIVITY μ mhos/cm	0 2 0 4	1 N		(i) CURRENT METER	0 2 2 0	1 N	
ALKALINITY mg/L		N 7 4	0	(ii) FLOT	0 2 2 0	2 N	
(i) ELECTROMETRIC	1 0 1 0	1 N		(iii) CHEMICAL	0 2 2 0	3 N	
(ii) VISUAL TITRATION	1 0 1 0	2 N		TOTAL KJLDAHL NITROGEN mg/L			
Nitrate Nitrogen (NO ₃) mg/L	0 7 1 0	5 N 0	2	(i) TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN mg/L	0 8 1 0	1 N 7	4	(ii) NESSELERIZATION	0 7 0 0	4 N	
B.O.D. mg/L	0 8 2 0	1 N 0	6	HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N 7 0	0
C.O.D. mg/L	0 8 3 0	1 N 1 0	0	TOTAL COLIFORM MPN/100 ml	2 2 1 0	1 N	
CHLORIDE mg/L		N 1 5	9 9	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3	3 N 2 6 0	0
(i) ARGENTOMETRIC	1 7 2 0	1 N		FIXED DISSOLVED SOLIDS mg/L	4 4 4 4	4 N	
(ii) MERCURIMETRIC	1 7 2 0	1 N		AMMONICAL NITROGEN mg/L			
SULPHATE mg/L		N 8	0	(i) COLOURIMETRY	0 7 5 5	5 N	
(i) GRAVIMETRIC	1 6 3 0	1 N		(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
(ii) TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED mg/L	0 5 1 0	5 N	
SODIUM mg/L	1 1 1 0	3 N		PHOSPHATE mg/L			
CALCIUM AS CaCO ₃ mg/L	2 0 1 0	1 N 3 8	0	NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0	3 N 3 2	0				
FECAL COLIFORM MPN/100 ML	3 6 0 1	1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

STATION- Up Stream of Hasdeo Bango,
Hydel Power Station, Machadoli, Korba
TYPE - River Water

COMPLETED BY- B.P. Mishra
Lab. Asst.-II

VERIFIED BY - B.P. Mishra, Lab. Asst.-II

AGENCY - C.G. Environment Conservation
Board, Korba

Other

B.P.M. Mishra
Analysed By

Chandra

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 1 0 1

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 9 0 1 1 7

3. WEATHER

√ Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. >50 - 100 cm. √ 100 cm. Flood

5. COLOUR & INTENSITY

Clear √ Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR

√ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√ none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming √ Fishing Other

9. LOCATION DETAIL

U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Mahanadi River, Raigarh
 TYPE : Interstate boundary near Surajgarh
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE DETERMINAND DETERMINAND WHO CODE AQC FLAGE VALUE VALUE

TEMPERATURE, °c	0 2 0 0 1 N 2 1					
Ph	1 0 3 0 2 N 7 5					
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 9 2	0				
ALKALINITY, mg/L						
(1) ELECTROMETRIC	1 0 1 0 1 N					
(2) VISUAL TITRATION	1 0 1 0 2 N 6 9 0					
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 9 5 9					
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 8					
BOD, mg/L	0 8 2 0 1 N 0 7					
COD, mg/L	0 8 3 0 1 N 1 9 8 4					
CHLORIDE, mg/L						
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 2 0					
(2) MERCURIMETRIC	1 7 2 0 1 N					
SULPHATE, mg/L						
(1) GRAVIMETRIC	1 6 3 0 1 N					
(2) TURBIDIMETRIC	1 6 3 0 2 N 4 4 0					
SODIUM, mg/L	1 1 1 0 3 N					
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 3 2					
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5 3 6					
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N					
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N					

TURBIDITY, JTU/NTU	0 2 1 0 1 N 1 0					
VELOCITY OF FLOW, m/sec						
(i) CURRENT METER	0 2 2 0 1 N					
(ii) FLOAT	0 2 2 0 2 N					
(iii) CHEMICAL	0 2 2 0 3 N					
TOTAL KJELDAHL NITROGEN, mg/L						
(i) TITRATION	0 7 0 0 1 N					
(ii) Nesslerization	0 7 0 0 4					
HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N 5 5 0					
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 6 4					
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 2 0 0					
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N					
AMMONIA NITROGEN, mg/L						
(i) COLOURIMETRY	0 7 5 5 5 N 1 0 4					
(ii) DISTILLATION TITRATION	0 7 5 5 1 N					
BORON DISSOLVED, mg/L	0 5 1 0 5 N					
PHOSPHATE, mg/L						
NITRITE, mg/L						
NITRATE NITROGEN (NO ₃ N), mg/L						
TOTAL SUSPENDED SOLIDS, mg/L						

S.K.P.

SAMPLER

R.P.

CHEMIST

R.P. Pradhan
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 8 4 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 9 0 1 1 7

3. WEATHER

√ Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. 50 - 100 cm. √ >100 cm. Flood

5. COLOUR & INTENSITY

Clear √ Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR

√ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√ none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing √ Other

9. LOCATION DETAIL

U/S of Town or Industrial Area	√ D/S of Town or Industrial area	Pilgrim Center / Bathing Ghat	Abstraction For Water Supply
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STATION : Kelo River, Raigarh
 TYPE : Up Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

DETERMINDAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 1	
pH	1 0 3 0	2 N 7 5	
CONDUCTIVITY, μmhos/cm	0 2 0 4	1 N 1 9 3 0	
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 7 0	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 0 9 7 9	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 6 8	
BOD, mg/L	0 8 2 0	1 N 0 9	
COD, mg/L	0 8 3 0	1 N 2 3 8 0	
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 2 4 0	
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 4 8 0	
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 2 8	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 6 3 4	
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	

DETERMINDAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0 2 1 0	1 N 1 2 0	
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0	1 N	
(ii) FLOAT	0 2 2 0	2 N	
(iii) CHEMICAL	0 2 2 0	3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0	1 N	
(ii) Nesslerization	0 7 0 0	4	
HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N 5 8 0	
TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N 7 5	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 2 6 0	
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5	5 N 1 1 7	
(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
BORON DISSOLVED, mg/L	0 5 1 0	5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			
NITRATE NITROGEN (NO ₃ N), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			


SAMPLER


CHEMIST


REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 5 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 9 0 1 1 7

3. WEATHER: √Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. √50 - 100 cm. √>100 cm. Flood

5. COLOUR & INTENSITY: Clear √Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: √None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Down Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAG VALUE DETERMINAND ARBITRARY CODE AQCFLAG VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	0	0	21	TURBIDITY, JTU/NTU	0	2	10
pH	1	0	7.6	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0	2	94	(i) CURRENT METER	0	2	0
ALKALINITY, mg/L	0	2	0	(ii) FLOAT	0	2	0
(1) ELECTROMETRIC	1	0	1	(iii) CHEMICAL	0	2	0
(2) VISUAL TITRATION	1	0	1	TOTAL KjELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	(i) TITRATION	0	7	0
DISSOLVED OXYGEN, mg/L	0	8	1	(ii) NESSELERIZATION	0	7	0
BOD, mg/L	0	8	2	HARDNESS as CaCO ₃ , mg/L	2	2	1
COD, mg/L	0	8	3	TOTAL COLIFORM, MPN/100ml	3	7	0
CHLORIDE, mg/L	1	7	2	TOTAL DISSOLVED SOLIDS, mg/L	3	3	3
(1) ARGENTOMETRIC	1	7	2	FIXED DISSOLVED SOLIDS, mg/L	4	4	4
(2) MERCURIMETRIC	1	7	2	AMMONIA NITROGEN, mg/L			
SULPHATE, mg/L	1	6	3	(i) COLOURIMETRY	0	7	5
(1) GRAVIMETRIC	1	6	3	(ii) DISTILLATION TITRATION	0	7	5
(2) TURBIDIMETRIC	1	1	1	BORON DISSOLVED, mg/L	0	5	1
SODIUM, mg/L	2	0	1	PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	1	2	1	NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	NITRATE NITROGEN (NO ₃ N), mg/L			
FECAL COLIFORM MPN/100mg/L	3	6	0	TOTAL SUSPENDED SOLIDS, mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1				

SAMPLER

CHEMIST

REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT / GLOWDAT

1. STATION CODE 1101

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 270217 1020

3. WEATHER Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM <50cm. >50 - 100 cm. √100 cm. Flood

5. COLOUR & INTENSITY √Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR √None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY √none moderate High

8. HUMAN ACTIVITIES AROUND STATION
 Cattle Wading Melon Farming √ Fishing Other

9. LOCATION DETAIL
 U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Mahanadi River, Raigarh
 TYPE : Interstate boundary near Surajgarh
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

DETERMINAND	WHO CODE	AQC FLAG				VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG				VALUE	
		0	2	0	1				1	0	1	0		1
TEMPERATURE, °C	0	2	0	0	1	N 2 3	TURBIDITY, JTU/NTU	0	2	1	0	1	N 9	. 0
Ph	1	0	3	0	2	N 7 . 4	VELOCITY OF FLOW, m/sec							
CONDUCTIVITY, µmhos/cm	0	2	0	4	1	N 1 9 4 . 0	(i) CURRENT METER	0	2	2	0	1	N	
ALKALINITY, mg/L							(ii) FLOAT	0	2	2	0	2	N	
(1) ELECTROMETRIC	1	0	1	0	1	N	(iii) CHEMICAL	0	2	2	0	3	N	
(2) VISUAL TITRATION	1	0	1	0	2	N 7 0 . 0	TOTAL KJELDAHL NITROGEN, mg/L							
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	0	5	N 0 . 8 7 7	(i) TITRATION	0	7	0	0	1	N	
DISSOLVED OXYGEN, mg/L	0	8	1	0	1	N 6 . 8	(ii) NESSELERIZATION	0	7	0	0	4		
BOD, mg/L	0	8	2	0	1	N 0 . 6	HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N 5 3 . 0	
COD, mg/L	0	8	3	0	1	N 2 0 . 0	TOTAL COLIFORM, MPN/100ml	3	7	0	0	1	N 6 4	
CHLORIDE, mg/L							FIXED DISSOLVED SOLIDS, mg/L	3	3	3	3	3	N 1 1 2 . 0	
(1) ARGENTOMETRIC	1	7	2	0	1	N 2 3 . 0	AMMONIA NITROGEN, mg/L	4	4	4	4	4	N	
(2) MERCURIMETRIC	1	7	2	0	1	N	(i) COLOURIMETRY	0	7	5	5	5	N 1 . 0	
SULPHATE, mg/L							(ii) DISTILLATION TITRATION	0	7	5	5	1	N	
(1) GRAVIMETRIC	1	6	3	0	1	N	BORON DISSOLVED, mg/L	0	5	1	0	5	N	
(2) TURBIDIMETRIC	1	6	3	0	2	N 4 6 . 0	PHOSPHATE, mg/L						0 . 8	
SODIUM, mg/L	1	1	1	0	3	N	NITRITE, mg/L						0 . 0 1 7	
CALCIUM as CaCO ₃ , mg/L	2	0	1	0	1	N 1 2 . 8	NITRATE NITROGEN (NO ₃ N), mg/L						0 . 8 6	
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	0	3	N 5 . 1 2	TOTAL SUSPENDED SOLIDS, mg/L						2 4 . 0	
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1	N								
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	6	7	N								

REGIONAL OFFICER

SPL
CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 8 4 9
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 2 1 7
- WEATHER: Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 cm. >100 cm. Flood
- COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High
- ODOUR: None Fishy H₂S Other
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High
- HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

STATION : Kelo River, Raigarh
 TYPE : Up Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

U/S of Town or Industrial Area	√ D/S of Town or Industrial area	Pilgrim Center / Bathing Ghat	Abstraction For Water Supply
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WHO CODE AQC FLAG VALUE

DETERMINDAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 3		
CONDUCTIVITY, umhos/cm	1 0 3 0 2 N 7 5		
ALKALINITY, mg/L	0 2 0 4 1 N 1 9 4		0
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 7 3		0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 8 9 8		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 8		
BOD, mg/L	0 8 2 0 1 N 0 8		
COD, mg/L	0 8 3 0 1 N 2 4		0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 5		0
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 4 8		0
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 8		0 4
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5		3 6
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		

DETERMINDAND ARBITRARY CODE AQC FLAG VALUE

DETERMINDAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0 2 1 0 1 N 1 2		0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4		
HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N 5 5		0
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 9 3		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 2 5		0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1		0 4
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			0 9
NITRITE, mg/L			0 0 1 8
NITRATE NITROGEN (NO ₃), mg/L			1 8 8
TOTAL SUSPENDED SOLIDS, mg/L			3 0 0

9723
 CHEMIST

R. O. C. E. C. B. Raigarh
 REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 5 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 2 1 7

3. WEATHER: Cloudy Clear Windy Raining STATION: Kelo River, Raigarh

4. APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 cm. >100 cm. Flood TYPE: Down Stream of Raigarh City

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High COMPLETED BY: S. K. Pradhan (Chemist)

6. ODOUR: None Fishy H₂S Other VERIFIED BY: S. K. Pradhan (Chemist)

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High AGENCY: R. O. C. E. C. B. Raigarh

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °C	0	0 0 1 N 2 3	
pH	1	0 3 0 2 N 7	7
CONDUCTIVITY, µmhos/cm	0	2 0 4 1 N 1 9 5	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1	0 1 0 1 N	
(2) VISUAL TITRATION	1	0 1 0 2 N 7 8	0
NITROGEN(NO ₃ + NO ₂), mg/L	0	7 1 0 5 N 1	0 3 9
DISSOLVED OXYGEN, mg/L	0	8 1 0 1 N 6	7
BOD, mg/L	0	8 2 0 1 N 1	4
COD, mg/L	0	8 3 0 1 N 2 8	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1	7 2 0 1 N 2 7	0
(2) MERCURIMETRIC	1	7 2 0 1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1	6 3 0 1 N	
(2) TURBIDIMETRIC	1	6 3 0 2 N 5 8	0
SODIUM, mg/L	1	1 1 0 3 N	
CALCIUM as CaCO ₃ , mg/L	2	0 1 0 1 N 1 5	6
MAGNESIUM as CaCO ₃ , mg/L	1	2 1 0 3 N 6	8 2
FECAL COLIFORM MPN/100mg/L	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9	7 1 6 7 N	

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0	2 1 0 1 N 2 5	0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0	2 2 0 1 N	
(ii) FLOAT	0	2 2 0 2 N	
(iii) CHEMICAL	0	2 2 0 3 N	
TOTAL KIELDAHL NITROGEN, mg/L			
(i) TITRATION	0	7 0 0 1 N	
(ii) NESSELERIZATION	0	7 0 0 4	
HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 6 7	0
TOTAL COLIFORM, MPN/100ml	3	7 0 0 1 N 1 5 0	
FIXED DISSOLVED SOLIDS, mg/L	3	3 3 3 3 N 1 3 3	0
TOTAL DISSOLVED SOLIDS, mg/L	4	4 4 4 4 N	
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0	7 5 5 5 N 1	1 7
(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
BORON DISSOLVED, mg/L	0	5 1 0 5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			1 0
NITRATE NITROGEN (NO ₃ N), mg/L			0 0 1 9
TOTAL SUSPENDED SOLIDS, mg/L			1 0 2
			4 6 0

CHEMIST

Raigarh
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1 1 0 1

2 2 0 3 1 7

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

Cloudy √ Clear Windy Raining

WEATHER

<50cm. √>50 - 100 cm. 100 cm. Flood

APPROX DEPTH OF MAIN STREAM

√ Clear Turbid Green Brown 1=Light 2=Moderate 3=High

COLOUR & INTENSITY

√ None Fishy H₂S Other

ODOUR

√ none moderate High

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

Cattle Wading Melon Farming √ Fishing Other

HUMAN ACTIVITIES AROUND STATION

U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

LOCATION DETAIL

STATION : Mahanadi River, Raigarh
 TYPE : Interstate boundary near Surajgarh
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAGE VALUE DETERMINAND ARBITRARY CODE AQC FLAGE VALUE

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 4			TURBIDITY, JTU/NTU	0 2 1 0 1 N 8 . 0		
ph	1 0 3 0 2 N 7 . 5			VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, μmhos/cm	0 2 0 4 1 N 1 9 6 . 0			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii) FLOAT	0 2 2 0 2 N		
(1) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 6 5 . 0			TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 . 8 5 8			(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 . 9			(ii) NESSELERIZATION	0 7 0 0 4		
BOD, mg/L	0 8 2 0 1 N 0 . 5			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 4 8 . 0		
COD, mg/L	0 8 3 0 1 N 1 9 . 8 4			TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 4 3		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 0 8 . 0		
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 4 . 0			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2) MERCURIMETRIC	1 7 2 0 1 N			AMMONIA NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5 5 N 0 . 9 7		
(1) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 4 6 . 0			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 2 . 0			NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 4 . 3 9			NITRATE NITROGEN (NO ₃), mg/L			
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			TOTAL SUSPENDED SOLIDS, mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N						

S.K.P.
SAMPLER

S.P.J.
CHEMIST

R. O. C. E. C. B.
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 4 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 2 0 3 1 7 0 9 4 0

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh

TYPE : Up Stream of Raigarh City

COMPLETED BY : S. K. Pradhan (Chemist)

VERIFIED BY : S. K. Pradhan (Chemist)

AGENCY : R. O. C. E. C. B. Raigarh

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N	2 4	TURBIDITY, JTU/NTU	0 2 1 0	1 N	1 0
pH	1 0 3 0	2 N	7 5	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N	1 9 7 0	(i) CURRENT METER	0 2 2 0	1 N	
ALKALINITY, mg/L				(ii) FLOAT	0 2 2 0	2 N	
(1) ELECTROMETRIC	1 0 1 0	1 N		(iii) CHEMICAL	0 2 2 0	3 N	
(2) VISUAL TITRATION	1 0 1 0	2 N	7 0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N	0 8 7 8	(i) TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	6 9	(ii) NESSELERIZATION	0 7 0 0	4	
BOD, mg/L	0 8 2 0	1 N	0 7	HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N	5 2 0
COD, mg/L	0 8 3 0	1 N	2 3 8 0	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	1 2 0
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	1 2 1 0
(1) ARGENTOMETRIC	1 7 2 0	1 N	2 5 0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(2) MERCURIMETRIC	1 7 2 0	1 N		AMMONIA NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5	5 N	1 0
(1) GRAVIMETRIC	1 6 3 0	2 N	4 8 0	(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N	4 8 0	BORON DISSOLVED, mg/L	0 5 1 0	5 N	
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L			0 9
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	1 2 8	NITRITE, mg/L			0 0 1 8
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	4 8 7	NITRATE NITROGEN (NO ₃), mg/L			0 0 8 6
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N		TOTAL SUSPENDED SOLIDS, mg/L			2 8 0 0
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N					

[Signature]
CHEMIST

[Signature]
SAMPLER

[Signature]
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1 8 5 0

2 2 0 3 1 7

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

Cloudy Clear Windy Raining

WEATHER

<50cm. >50 - 100 cm. >100 cm. Flood

APPROX DEPTH OF MAIN STREAM

Clear Turbid Green Brown 1 = Light 2 = Moderate 3 = High

COLOUR & INTENSITY

√None Fishy H₂S Other

ODOUR

√none moderate High

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

Cattle Wading Melon Farming Fishing √Other

HUMAN ACTIVITIES AROUND STATION

U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

LOCATION DETAIL

STATION CODE

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

WEATHER

APPROX DEPTH OF MAIN STREAM

COLOUR & INTENSITY

ODOUR

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

HUMAN ACTIVITIES AROUND STATION

LOCATION DETAIL

STATION : Kelo River, Raigarh

TYPE : Down Stream of Raigarh City

COMPLETED BY : S. K. Pradhan (Chemist)

VERIFIED BY : S. K. Pradhan (Chemist)

AGENCY : R. O. C. E. C. B. Raigarh

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
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TEMPERATURE, °c	0	0	0	1	N	2	4
pH	1	0	3	0	2	N	7.8
CONDUCTIVITY, µmhos/cm	0	2	0	4	1	N	195
ALKALINITY, mg/L							
(1) ELECTROMETRIC	1	0	1	0	1	N	
(2) VISUAL TITRATION	1	0	1	0	2	N	8
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	0	5	N	0.99
DISSOLVED OXYGEN, mg/L	0	8	1	0	1	N	6.6
BOD, mg/L	0	8	2	0	1	N	1.7
COD, mg/L	0	8	3	0	1	N	2.7
CHLORIDE, mg/L							
(1) ARGENTOMETRIC	1	7	2	0	1	N	2.8
(2) MERCURIMETRIC	1	7	2	0	1	N	
SULPHATE, mg/L							
(1) GRAVIMETRIC	1	6	3	0	1	N	
(2) TURBIDIMETRIC	1	6	3	0	2	N	6
SODIUM, mg/L	1	1	1	0	3	N	
CALCIUM as CaCO ₃ , mg/L	2	0	1	0	1	N	1.6
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	0	3	N	6.8
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1	N	
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	6	7	N	

TURBIDITY, JTU/NTU	0	2	1	0	1	N	3	2	0
VELOCITY OF FLOW, m/sec									
(i) CURRENT METER	0	2	2	0	1	N			
(ii) FLOAT	0	2	2	0	2	N			
(iii) CHEMICAL	0	2	2	0	3	N			
TOTAL KJELDAHL NITROGEN, mg/L									
(i) TITRATION	0	7	0	0	1	N			
(ii) Nesslerization	0	7	0	0	4				
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	6	8	0
TOTAL COLLIFORM, MPN/100ml	3	7	0	0	1	N	2	1	0
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3	3	3	N	1	5	3
FIXED DISSOLVED SOLIDS, mg/L	4	4	4	4	4	N			
AMMONIA NITROGEN, mg/L									
(i) COLOURIMETRY	0	7	5	5	5	N	1	1	7
(ii) DISTILLATION TITRATION	0	7	5	5	1	N			
BORON DISSOLVED, mg/L	0	5	1	0	5	N			
PHOSPHATE, mg/L							1	1	
NITRITE, mg/L							0	0	1
NITRATE NITROGEN (NO ₃), mg/L							0	9	8
TOTAL SUSPENDED SOLIDS, mg/L							5	3	0

SAMPLER

CHEMIST

REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1 1 0 1

1. STATION CODE

1 8 0 4 1 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

0 8 0 0

√ Clear Windy Raining

3. WEATHER

<50cm. √>50 - 100 cm. 100 cm. Flood

4. APPROX DEPTH OF MAIN STREAM

√ Clear Turbid Green Brown 1=Light 2=Moderate 3=High

5. COLOUR & INTENSITY

√ None Fishy H₂S Other

6. ODOUR

√ none moderate High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

Cattle Wading Melon Farming √ Fishing Other

8. HUMAN ACTIVITIES AROUND STATION

U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

9. LOCATION DETAIL

STATION : Mahanadi River, Raigarh

TYPE : Interstate boundary near Surajgarh

COMPLETED BY : S. K. Pradhan (Chemist)

VERIFIED BY : S. K. Pradhan (Chemist)

AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE

ARBITRARY CODE

DETERMINAND

DETERMINAND

AQCF LAGE

VALUE

DETERMINAND	WHO CODE	AQCF LAGE	VALUE
TEMPERATURE, °C	0 2 0 0	1 N 2 5	
Ph	1 0 3 0	2 N 7 4	
CONDUCTIVITY, μmhos/cm	0 2 0 4	1 N 1 9 5	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 7 1	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 0 8 5 7	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 6 9	
BOD, mg/L	0 8 2 0	1 N 0 4	
COD, mg/L	0 8 3 0	1 N 1 5 8 7	
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 2 3 0	
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 4 8 0	
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 4 4	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 6 8 2	
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	

DETERMINAND	ARBITRARY CODE	AQCF LAGE	VALUE
TURBIDITY, JTU/NTU	0 2 1 0	1 N 8 0	
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0	1 N	
(ii) FLOAT	0 2 2 0	2 N	
(iii) CHEMICAL	0 2 2 0	3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0	1 N	
(ii) Nesslerization	0 7 0 0	4	
HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N 6 4 0	
TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N 4 3	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 1 0 0	
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5	5 N 0 9 5 1	
(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
BORON DISSOLVED, mg/L	0 5 1 0	5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			
NITRATE NITROGEN (NO ₃ N), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			

S.K. Pradhan

SAMPLER

S.K. Pradhan

CHEMIST

S.K. Pradhan
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 8 4 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 8 0 4 1 7

0 9 1 0

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. >50 - 100 cm. >100 cm. Flood

5. COLOUR & INTENSITY

√ Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR

√ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√ none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing √ Other

9. LOCATION DETAIL

U/S of Town or Industrial Area	√ D/S of Town or Industrial area	Pilgrim Center / Bathing Ghat	Abstraction For Water Supply
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STATION : Kelo River, Raigarh
 TYPE : Up Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
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TEMPERATURE, °C	0 2 0 0 1 N 2 5						
pH	1 0 3 0 2 N 7 5						
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 9 6		0				
ALKALINITY, mg/L							
(1) ELECTROMETRIC	1 0 1 0 1 N						
(2) VISUAL TITRATION	1 0 1 0 2 N 7 2		0				
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 8 5 8						
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 9						
BOD, mg/L	0 8 2 0 1 N 0 5						
COD, mg/L	0 8 3 0 1 N 1 9 8 4						
CHLORIDE, mg/L							
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 4 0						
(2) MERCURIMETRIC	1 7 2 0 1 N						
SULPHATE, mg/L							
(1) GRAVIMETRIC	1 6 3 0 1 N						
(2) TURBIDIMETRIC	1 6 3 0 2 N 5 0 0						
SODIUM, mg/L	1 1 1 0 3 N						
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 4 8						
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 6 8 2						
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N						

TURBIDITY, JTU/NTU	0 2 1 0 1 N 9 0						
VELOCITY OF FLOW, m/sec							
(i) CURRENT METER	0 2 2 0 1 N						
(ii) FLOAT	0 2 2 0 2 N						
(iii) CHEMICAL	0 2 2 0 3 N						
TOTAL KJELDAHL NITROGEN, mg/L							
(i) TITRATION	0 7 0 0 1 N						
(ii) NITROGENIZATION	0 7 0 0 4						
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 5 0						
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 7 5						
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 2 1 0						
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N						
AMMONIA NITROGEN, mg/L							
(i) COLOURIMETRY	0 7 5 5 5 N 0 9 7						
(ii) DISTILLATION TITRATION	0 7 5 5 1 N						
BORON DISSOLVED, mg/L	0 5 1 0 5 N						
PHOSPHATE, mg/L							
NITRITE, mg/L							
NITRATE NITROGEN (NO ₃ -N), mg/L							
TOTAL SUSPENDED SOLIDS, mg/L							

S.K. Pradhan
SAMPLER

S.P. Singh
CHEMIST

R. O. C. E. C. B. Raigarh
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 5 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 8 0 4 1 7 1 0 1 5

3. WEATHER: Cloudy √Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. √>50 - 100 cm. >100 cm. Flood

5. COLOUR & INTENSITY: Clear √Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: √None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other

STATION : Kelo River, Raigarh

TYPE : Down Stream of Raigarh City

COMPLETED BY : S. K. Pradhan (Chemist)

VERIFIED BY : S. K. Pradhan (Chemist)

AGENCY : R. O. C. E. C. B. Raigarh

U/S of Town or Industrial Area √D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

DETERMINDAND	WHO CODE	AQC FLAG	VALUE	DETERMINDAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °c	0	0	25	TURBIDITY, JTU/NTU	0	2	1
pH	1	0	7.7	VELOCITY OF FLOW, m/sec	0	2	0
CONDUCTIVITY, µmhos/cm	0	2	197	(i) CURRENT METER	0	2	0
ALKALINITY, mg/L				(ii) FLOAT	0	2	0
(1) ELECTROMETRIC	1	0	1	(iii) CHEMICAL	0	2	0
(2) VISUAL TITRATION	1	0	2	TOTAL KjELDAHL NITROGEN, mg/L	0	7	0
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	(i) TITRATION	0	7	0
DISSOLVED OXYGEN, mg/L	0	8	1	(ii)NESSELERIZATION	0	7	0
BOD, mg/L	0	8	2	HARDNESS as CaCO ₃ mg/L	2	2	1
CHLORIDE, mg/L	0	8	3	TOTAL COLIFORM, MPN/100ml	3	7	0
(1) ARGENTOMETRIC	1	7	2	TOTAL DISSOLVED SOLIDS, mg/L	3	3	3
(2) MERCURIMETRIC	1	7	2	FIXED DISSOLVED SOLIDS, mg/L	4	4	4
SULPHATE, mg/L				AMMONIA NITROGEN, mg/L	0	7	5
(1) GRAVIMETRIC	1	6	3	(i) COLOURIMETRY	0	7	5
(2) TURBIDIMETRIC	1	6	3	(ii) DISTILLATION TITRATION	0	7	5
SODIUM, mg/L	1	1	1	BORON DISSOLVED, mg/L	0	5	1
CALCIUM as CaCO ₃ , mg/L	2	0	1	PHOSPHATE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	NITRITE, mg/L			
FECAL COLIFORM MPN/100mg/L	3	6	0	NITRATE NITROGEN (NO ₃ N), mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	TOTAL SUSPENDED SOLIDS, mg/L			

SAMPLER

CHEMIST

REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
 ✓ MINARS/GEMS

MINDAT / GLOWDAT

STATION : Mahanadi River, Raigarh
 TYPE : Interstate boundary near Surajgarh
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

1 1 0 1
 2 3 0 5 1 7 0 9 0 0
 Cloudy ✓ Clear Windy Raining

<50cm. ✓>50 - 100 cm. 100 cm. Flood
 ✓ Clear Turbid Green Brown 1=Light 2=Moderate 3=High

✓None Fishy H₂S Other
 ✓none moderate High

Cattle Wading Melon Farming ✓ Fishing Other

U/S of Town or Industrial Area ✓ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

- STATION CODE
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)
- WEATHER
- APPROX DEPTH OF MAIN STREAM
- COLOUR & INTENSITY
- ODOUR
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
- HUMAN ACTIVITIES AROUND STATION
- LOCATION DETAIL

WHO CODE AQC FLAG VALUE

DETERMINAND

ARBITRARY CODE AQC FLAG VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °C	0	2 0 0 1 N	2 6	TURBIDITY, JTU/NTU	0	2 1 0 1 N	9 0
Ph	1	0 3 0 2 N	7 5	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0	2 0 4 1 N	1 9 2 0	(i) CURRENT METER	0	2 2 0 1 N	
ALKALINITY, mg/L				(ii) FLOAT	0	2 2 0 2 N	
(1) ELECTROMETRIC	1	0 1 0 1 N		(iii) CHEMICAL	0	2 2 0 3 N	
(2) VISUAL TITRATION	1	0 1 0 2 N	6 8 0	TOTAL KIELDAHL NITROGEN, mg/L	0	7 0 0 1 N	
NITROGEN(NO ₃ + NO ₂), mg/L	0	7 1 0 5 N	0 8 3 6	(i) TITRATION	0	7 0 0 4	
DISSOLVED OXYGEN, mg/L	0	8 1 0 1 N	6 8	(ii) NITRIMETERIZATION	2	2 1 0 1 N	6 2 0
BOD, mg/L	0	8 2 0 1 N	0 3	HARDNESS as CaCO ₃ , mg/L	3	7 0 0 1 N	2 3
COD, mg/L	0	8 3 0 1 N	1 5 8 7	TOTAL COLIFORM, MPN/100ml	3	3 3 3 3 N	1 0 9 0
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	4	4 4 4 4 N	
(1) ARGENTOMETRIC	1	7 2 0 1 N	2 2 0	AMMONIA NITROGEN, mg/L	0	7 5 5 5 N	0 9 2 7
(2) MERCURIMETRIC	1	7 2 0 1 N		(i) COLOURIMETRY	0	7 5 5 1 N	
SULPHATE, mg/L				(ii) DISTILLATION TITRATION	0	5 1 0 5 N	
(1) GRAVIMETRIC	1	6 3 0 1 N		BORON DISSOLVED, mg/L	0	5 1 0 5 N	0 8
(2) TURBIDIMETRIC	1	6 3 0 2 N	4 6 0	PHOSPHATE, mg/L			
SODIUM, mg/L	1	1 1 0 3 N		NITRITE, mg/L			0 0 1 6
CALCIUM as CaCO ₃ , mg/L	2	0 1 0 1 N	1 4 0	NITRATE NITROGEN (NO ₃ -N), mg/L			0 0 8 2
MAGNESIUM as CaCO ₃ , mg/L	1	2 1 0 3 N	6 5 8	TOTAL SUSPENDED SOLIDS, mg/L			2 4 0 0
FECAL COLIFORM MPN/100mg/L	3	6 0 1 1 N					
INSTANTANEOUS DISCHARGE, m ³ /s	9	7 1 6 7 N					

S. K. Pradhan
 REGIONAL OFFICER

S. P. D.
 CHEMIST

SAMPLER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 4 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 0 5 1 7 1 0 0 0

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh

TYPE : Up Stream of Raigarh City

COMPLETED BY : S. K. Pradhan (Chemist)

VERIFIED BY : S. K. Pradhan (Chemist)

AGENCY : R. O. C. E. C. B. Raigarh

U/S of Town or Industrial Area	<input type="checkbox"/>	D/S of Town or Industrial area	<input type="checkbox"/>	Pilgrim Center / Bathing Ghat	<input type="checkbox"/>	Abstraction For Water Supply	<input type="checkbox"/>
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DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0 2 0 0 1	N 2 6		TURBIDITY, JTU/NTU	0 2 1 0 1	N 9 0	
pH	1 0 3 0 2	N 7 5		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0 2 0 4 1	N 1 9 4	0	(i) CURRENT METER	0 2 2 0 1	N	
ALKALINITY, mg/L				(ii) FLOAT	0 2 2 0 2	N	
(1) ELECTROMETRIC	1 0 1 0 1	N		(iii) CHEMICAL	0 2 2 0 3	N	
(2) VISUAL TITRATION	1 0 1 0 2	N 7 0	0	TOTAL KJELDAHL NITROGEN, mg/L	0 7 0 0 1	N	
NITROGEN(NO ₂ + NO ₃), mg/L	0 7 1 0 5	N 0 8 3 7		(i) TITRATION	0 7 0 0 4		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1	N 6 8		(ii) Nesslerization	2 2 1 0 1	N 6 6 0	
BOD, mg/L	0 8 2 0 1	N 0 5		HARDNESS as CaCO ₃ mg/L	3 7 0 0 1	N 4 3	
COD, mg/L	0 8 3 0 1	N 1 9 8 4		TOTAL COLIFORM, MPN/100ml	3 3 3 3 3	N 1 6 0	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4 4	N	
(1) ARGENTOMETRIC	1 7 2 0 1	N 2 3 0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4	N	
(2) MERCURIMETRIC	1 7 2 0 1	N		AMMONIA NITROGEN, mg/L	0 7 5 5 5	N 0 9 7	
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5 1	N	
(1) GRAVIMETRIC	1 6 3 0 1	N		(ii) DISTILLATION TITRATION	0 5 1 0 5	N	
(2) TURBIDIMETRIC	1 6 3 0 2	N 5 2 0		BORON DISSOLVED, mg/L			
SODIUM, mg/L	1 1 1 0 3	N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1	N 1 5 2		NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3	N 6 8 2		NITRATE NITROGEN (NO ₃ N), mg/L			
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1	N		TOTAL SUSPENDED SOLIDS, mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7	N					

S. K. Pradhan
REGIONAL OFFICER

SP
CHEMIST

S.K.
SAMPLER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 5 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 0 5 1 7

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Down Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 0 0 1 N 2 6			TURBIDITY, JTU/NTU	0 2 1 0 1 N 2 7 0		
pH	1 0 3 0 2 N 7 6			VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 9 6 0			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii) FLOAT	0 2 2 0 2 N		
(1) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 8 2 0			TOTAL KJELDAHL NITROGEN, mg/L	0 7 0 0 1 N		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 8 5 8			(i) TITRATION	0 7 0 0 4		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 6			(ii) NITROGEN	2 2 1 0 1 N 7 0 0		
BOD, mg/L	0 8 2 0 1 N 2 0 0			HARDNESS as CaCO ₃ mg/L	3 7 0 0 1 N 1 5 0		
COD, mg/L	0 8 3 0 1 N 3 5 7 1			TOTAL COLIFORM, MPN/100ml	3 3 3 3 3 N 1 5 2 0		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 8 0			FIXED DISSOLVED SOLIDS, mg/L			
(2) MERCURIMETRIC	1 7 2 0 1 N			AMMONIA NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5 5 N 1 0 9		
(1) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 5 8 0			BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 6 8			NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 6 8 2			NITRATE NITROGEN (NO ₃ N), mg/L			
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			TOTAL SUSPENDED SOLIDS, mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N						

S.K.P.
SAMPLER

S.K.P.
CHEMIST

S.K.P.
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 4 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 0 0 6 1 7

3. WEATHER: Cloudy Clear Windy Raining Kelo River, Raigarh

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. >100 cm. Flood Up Stream of Raigarh City

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √ Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

COMPLETED BY: S. K. Pradhan (Chemist)

VERIFIED BY: S. K. Pradhan (Chemist)

AGENCY: R. O. C. E. C. B. Raigarh

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 6		TURBIDITY, JTU/NTU	0 2 1 0	1 N 1 2	0
pH	1 0 3 0	2 N 7 5		VELOCITY OF FLOW, m/sec	0 2 2 0	1 N	
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 1 9 3	0	(i) CURRENT METER	0 2 2 0	2 N	
ALKALINITY, mg/L				(ii) FLOAT	0 2 2 0	3 N	
(1) ELECTROMETRIC	1 0 1 0	1 N		(iii) CHEMICAL	0 7 0 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 7 1	0	TOTAL KJELDAHL NITROGEN, mg/L	0 7 0 0	1 N	
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 0 8 3 6		(i) TITRATION	0 7 0 0	4 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 6 9		(ii) Nesslerization	2 2 1 0	1 N 6 8	0
BOD, mg/L	0 8 2 0	1 N 0 4		HARDNESS as CaCO ₃ mg/L	3 7 0 0	1 N	
COD, mg/L	0 8 3 0	1 N 1 9 2		TOTAL COLIFORM, MPN/100ml	3 3 3 3	3 N 1 4	0
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(1) ARGENTOMETRIC	1 7 2 0	1 N 2 4 0		FIXED DISSOLVED SOLIDS, mg/L	0 7 5 5	5 N 1	9 5
(2) MERCURIMETRIC	1 7 2 0	1 N		AMMONIA NITROGEN, mg/L	0 7 5 5	1 N	
SULPHATE, mg/L	1 6 3 0	1 N 4 8 0		(i) COLOURIMETRY	0 7 5 5	1 N	
(1) GRAVIMETRIC	1 1 1 0	3 N		(ii) DISTILLATION TITRATION	0 5 1 0	5 N	
(2) TURBIDIMETRIC	2 0 1 0	1 N 1 5 6		BORON DISSOLVED, mg/L			0 9
SODIUM, mg/L	1 2 1 0	3 N 7 0 7		PHOSPHATE, mg/L			0 0 1 6
CALCIUM as CaCO ₃ , mg/L	3 6 0 1	1 N		NITRITE, mg/L			0 0 8 2
MAGNESIUM as CaCO ₃ , mg/L	9 7 1 6	7 N		NITRATE NITROGEN (NO ₃ -N), mg/L			3 2 0
FECAL COLIFORM MPN/100mg/L				TOTAL SUSPENDED SOLIDS, mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s							

SAMPLER

CHEMIST

REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 5 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 0 0 6 1 7

3. WEATHER: Cloudy √Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. √>50 - 100 cm. >100 cm. Flood

5. COLOUR & INTENSITY: Clear √Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: √None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Down Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

ARBITRARY CODE DETERMINAND AQC FLAGE VALUE

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0	0 0 1 N	2 6	TURBIDITY, JTU/NTU	0	2 1 0 1 N	3 0 0
pH	1	0 3 0 2 N	7 6	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0	2 0 4 1 N	1 9 5	(i) CURRENT METER	0	2 2 0 1 N	
ALKALINITY, mg/L				(ii) FLOAT	0	2 2 0 2 N	
(1) ELECTROMETRIC	1	0 1 0 1 N		(iii) CHEMICAL	0	2 2 0 3 N	
(2) VISUAL TITRATION	1	0 1 0 2 N	8 5	TOTAL KIELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0	7 1 0 5 N	0 8 3 8	(i) TITRATION	0	7 0 0 1 N	
DISSOLVED OXYGEN, mg/L	0	8 1 0 1 N	6 7	(ii) NESSELERIZATION	0	7 0 0 4	
BOD, mg/L	0	8 2 0 1 N	2 1	HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N	7 4 0
COD, mg/L	0	8 3 0 1 N	3 5 8 5	TOTAL COLIFORM, MPN/100ml	3	7 0 0 1 N	1 2 0
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	3	3 3 3 N	1 5 3 0
(1) ARGENTOMETRIC	1	7 2 0 1 N	2 9 0	AMMONIA NITROGEN, mg/L	4	4 4 4 N	
(2) MERCURIMETRIC	1	7 2 0 1 N		(i) COLOURIMETRY	0	7 5 5 N	1 0 9
SULPHATE, mg/L				(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
(1) GRAVIMETRIC	1	6 3 0 1 N		BORON DISSOLVED, mg/L	0	5 1 0 5 N	
(2) TURBIDIMETRIC	1	1 1 0 3 N		PHOSPHATE, mg/L			
SODIUM, mg/L	2	0 1 0 1 N	1 7 6	NITRITE, mg/L			
CALCIUM as CaCO ₃ , mg/L	1	2 1 0 3 N	7 3 1	NITRATE NITROGEN (NO ₃ N), mg/L			
MAGNESIUM as CaCO ₃ , mg/L	3	6 0 1 1 N		TOTAL SUSPENDED SOLIDS, mg/L			
FECAL COLIFORM MPN/100mg/L	9	7 1 6 7 N					
INSTANTANEOUS DISCHARGE, m ³ /s							

S.K. Pradhan
 REGIONAL OFFICER

S.P.
 CHEMIST

S.K. Pradhan
 SAMPLER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 1 0 1

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 6 1 7

3. WEATHER: √ Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. 100 cm. √ Flood

5. COLOUR & INTENSITY: Clear √ Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: √ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √ none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming √ Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Mahanadi River, Raigarh

TYPE : Interstate boundary near Surajgarh

COMPLETED BY : S. K. Pradhan (Chemist)

VERIFIED BY : S. K. Pradhan (Chemist)

AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAG VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 0	
Ph	1 0 3 0	2 N 7 3	
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 1 0	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N 9 6	0
(2) VISUAL TITRATION	1 0 1 0	2 N 9 1	6 5
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 1 3	7 4
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7 3	
BOD, mg/L	0 8 2 0	1 N 2 7	
COD, mg/L	0 8 3 0	1 N 3 1	7 4
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 3 3	0
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 6 4	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 2 6	4
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 9	2 6
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	

DETERMINAND

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0 2 1 0	1 N 7 2	0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0	1 N	
(ii) FLOAT	0 2 2 0	2 N	
(iii) CHEMICAL	0 2 2 0	3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0	1 N	
(ii) NESELERIZATION	0 7 0 0	4	
HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N 1 0 4	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 7 1	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5	5 N 1 3 4	
(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
BORON DISSOLVED, mg/L	0 5 1 0	5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			
NITRATE NITROGEN (NO ₃ -N), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			

SAMPLER

CHEMIST

REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 4 9
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 7 1 7 0 9 2 0
3. WEATHER: √ Cloudy Clear Windy Raining
4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. >100 cm. √ Flood
5. COLOUR & INTENSITY: Clear √ Turbid Green Brown 1=Light 2=Moderate 3=High
6. ODOUR: √ None Fishy H₂S Other
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √ none moderate High
8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √ Other
9. LOCATION DETAIL: U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Up Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAG VALUE DETERMINAND ARBITRARY CODE AQC FLAG VALUE

DETERMINDAND	WHO CODE	AQC FLAG	VALUE	DETERMINDAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 0		TURBIDITY, JTU/NTU	0 2 1 0	1 N 7 6	0
pH	1 0 3 0	2 N 7 5		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 1 2	0	(i) CURRENT METER	0 2 2 0	1 N	
ALKALINITY, mg/L				(ii) FLOAT	0 2 2 0	2 N	
(1) ELECTROMETRIC	1 0 1 0	1 N		(iii) CHEMICAL	0 2 2 0	3 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 9 8	0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 1 4 6		(i) TITRATION	0 7 0 0	1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7 2		(ii) Nesslerization	0 7 0 0	4	
BOD, mg/L	0 8 2 0	1 N 2 8		HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N 1 0 8	0
COD, mg/L	0 8 3 0	1 N 3 5 7 2		TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 7 9	0
(1) ARGENTOMETRIC	1 7 2 0	1 N 3 5 0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(2) MERCURIMETRIC	1 7 2 0	1 N		AMMONIA NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5	5 N 1 3 9	
(1) GRAVIMETRIC	1 6 3 0	1 N		(ii) DISTILLATION TITRATION	0 7 5 5	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 6 4 0		BORON DISSOLVED, mg/L	0 5 1 0	5 N	
SODIUM, mg/L	1 1 1 0	3 N		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 2 7 6		NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 9 5 1		NITRATE NITROGEN (NO ₃ N), mg/L			
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N		TOTAL SUSPENDED SOLIDS, mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N					

Sd/-
SAMPLER

Sd/-
CHEMIST

R. O. C. E. C. B. Raigarh
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 8 5 0
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 7 1 7 | 1 0 4 0
- WEATHER: √Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. >100 cm. √Flood
- COLOUR & INTENSITY: Clear √Turbid Green Brown 1=Light 2=Moderate 3=High
- ODOUR: √None Fishy H₂S Other
- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √none moderate High
- HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other
- LOCATION DETAIL: U/S of Town or Industrial Area √D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Down Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0	0 0 1 N 2 0		TURBIDITY, JTU/NTU	0 2 1 0 1 N 8 2	0	
pH	1 0 3 0 2 N 7	6		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 2 1 6	0		(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii) FLOAT	0 2 2 0 2 N		
(1) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 0 2	0		TOTAL KIELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 1	1 6 6		(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7	0		(ii) NESSELERIZATION	0 7 0 0 4		
BOD, mg/L	0 8 2 0 1 N 3	1		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 1 1 0	0	
COD, mg/L	0 8 3 0 1 N 3 9	6 8		TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 4 6 0		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 8 3	0	
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 7	0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2) MERCURIMETRIC	1 7 2 0 1 N			AMMONIA NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5 5 N 1	1 4 5	
(1) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 6 8	0		BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L		1 2	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 8	0		NITRITE, mg/L		0 0 2 6	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 9	7 5		NITRATE NITROGEN (NO ₃ -N), mg/L		1 1 4	
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			TOTAL SUSPENDED SOLIDS, mg/L		1 5 6 0	
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N						

Sd/-
SAMPLER

Sd/-
CHEMIST

R. O. C. E. C. B. Raigarh
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1 1 0 1

1. STATION CODE

3 0 0 8 1 7 0 9 3 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

√ Cloudy Clear Windy Raining

3. WEATHER

<50cm. >50 - 100 cm. √100 cm. Flood

4. APPROX DEPTH OF MAIN STREAM

Clear √Turbid Green Brown 1=Light 2=Moderate 3=High

5. COLOUR & INTENSITY

√None Fishy H₂S Other

6. ODOUR

√ none moderate High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

Cattle Wading Melon Farming √ Fishing Other

8. HUMAN ACTIVITIES AROUND STATION

U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

9. LOCATION DETAIL

STATION : Mahanadi River, Raigarh
 TYPE : Interstate boundary near Surajgarh
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAGE VALUE

ARBITRARY CODE

AQC FLAGE VALUE

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 2		
Ph	1 0 3 0 2 N 7 5		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 2 0 6 0		
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 9 2 0		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 1 1 4 4		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 2		
BOD, mg/L	0 8 2 0 1 N 1 8		
COD, mg/L	0 8 3 0 1 N 2 8 0		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 8 0		
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 6 2 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 2 0		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 7 0 7		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0 2 1 0 1 N 5 4 0		
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) NESSELERIZATION	0 7 0 0 4		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 8 4 0		
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 2 4 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 6 6 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1 3 1		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
NITRATE NITROGEN (NO ₃ N), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 4 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 0 0 8 1 7

3. WEATHER: √ Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. √ >100 cm. Flood

5. COLOUR & INTENSITY: Clear √ Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: √ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √ none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √ Other

U/S of Town or Industrial Area	√ D/S of Town or Industrial area	Pilgrim Center / Bathing Ghat	Abstraction For Water Supply
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COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

STATION : Kelo River, Raigarh
 TYPE : Up Stream of Raigarh City

WHO CODE: 0 2 0 0 1 N 2 2
 AQC FLAG: 0 3 0 2 N 7 5
 VALUE: 0 2 0 4 1 N 2 0 4 0

DETERMINDAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2	0 0 1 N 2 2	
pH	1 0	3 0 2 N 7 5	
CONDUCTIVITY, µmhos/cm	0 2	0 4 1 N 2 0 4 0	
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0	1 0 1 N	
(2) VISUAL TITRATION	1 0	1 0 2 N 9 4 0	
NITROGEN(NO ₃ + NO ₂), mg/L	0 7	1 0 5 N 2 0 8	
DISSOLVED OXYGEN, mg/L	0 8	1 0 1 N 7 2	
BOD, mg/L	0 8	2 0 1 N 1 6 0	
COD, mg/L	0 8	3 0 1 N 3 2 0	
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7	2 0 1 N 3 0 0	
(2) MERCURIMETRIC	1 7	2 0 1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6	3 0 1 N	
(2) TURBIDIMETRIC	1 6	3 0 2 N 6 4 0	
SODIUM, mg/L	1 1	1 0 3 N	
CALCIUM as CaCO ₃ , mg/L	2 0	1 0 1 N 2 2 4	
MAGNESIUM as CaCO ₃ , mg/L	1 2	1 0 3 N 7 5 6	
FECAL COLIFORM MPN/100mg/L	3 6	0 1 1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9 7	1 6 7 N	

DETERMINDAND: TURBIDITY, JTU/NTU
 VELOCITY OF FLOW, m/sec
 (I) CURRENT METER
 (II) FLOAT
 (III) CHEMICAL
 TOTAL KJELDAHL NITROGEN, mg/L
 (I) TITRATION
 (I) NESSELERIZATION
 HARDNESS as CaCO₃ mg/L
 TOTAL COLIFORM, MPN/100ml
 TOTAL DISSOLVED SOLIDS, mg/L
 FIXED DISSOLVED SOLIDS, mg/L
 AMMONIA NITROGEN, mg/L
 (I) COLOURIMETRY
 (I) DISTILLATION TITRATION
 BORON DISSOLVED, mg/L
 PHOSPHATE, mg/L
 NITRATE, mg/L
 NITRATE NITROGEN (NO₃N), mg/L
 TOTAL SUSPENDED SOLIDS, mg/L

ARBITRARY CODE: 0 2 1 0 1 N 6 2 0
 AQC FLAG: 0 2 2 0 1 N
 VALUE: 0 2 2 0 2 N
 0 2 2 0 3 N
 0 7 0 0 1 N
 0 7 0 0 4
 2 2 1 0 1 N 8 7 0
 3 7 0 0 1 N 2 4 0
 3 3 3 3 3 N 1 4 5 0
 4 4 4 4 4 N
 0 7 5 5 5 N 1 2 9
 0 7 5 5 1 N
 0 5 1 0 5 N
 1 1 1 1
 0 1 9 6
 1 1 1 2
 9 3 3 0

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REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 5 0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 0 0 8 1 7
3. WEATHER: √Cloudy Clear Windy Raining
4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. >100 cm. Flood
5. COLOUR & INTENSITY: Clear √Turbid Green Brown 1=Light 2=Moderate 3=High
6. ODOUR: √None Fishy H₂S Other
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √none moderate High
8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other

STATION : Kelo River, Raigarh

TYPE : Down Stream of Raigarh City

COMPLETED BY : S. K. Pradhan (Chemist)

VERIFIED BY : S. K. Pradhan (Chemist)

AGENCY : R. O. C. E. C. B. Raigarh

U/S of Town or Industrial Area √D/S of Town or Industrial area

Pilgrim Center / Bathing Ghat

Abstraction For Water Supply

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE	DETERMINDAND	ARBITRARY CODE	AQCFLAGE	VALUE
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TEMPERATURE, °c	0	0	0	0	0	2	1	0	1	0	1	6	0
pH	1	0	3	0	2	7	6						
CONDUCTIVITY, µmhos/cm	0	2	0	4	1	2	0	5	0				
ALKALINITY, mg/L													
(1) ELECTROMETRIC	1	0	1	0	1	N							
(2) VISUAL TITRATION	1	0	1	0	2	N							
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	0	5	N	1	6	4				
DISSOLVED OXYGEN, mg/L	0	8	1	0	1	N	7	0					
BOD, mg/L	0	8	2	0	1	N	2	8					
COD, mg/L	0	8	3	0	1	N	3	6	0				
CHLORIDE, mg/L													
(1) ARGENTOMETRIC	1	7	2	0	1	N	3	5	0				
(2) MERCURIMETRIC	1	7	2	0	1	N							
SULPHATE, mg/L													
(1) GRAVIMETRIC	1	6	3	0	1	N							
(2) TURBIDIMETRIC	1	6	3	0	2	N	6	8	0				
SODIUM, mg/L	1	1	1	0	3	N							
CALCIUM as CaCO ₃ , mg/L	2	0	1	0	1	N	2	3	0				
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	0	3	N	8	0	8				
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1	N							
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	6	7	N							
TURBIDITY, JTU/NTU							0	2	1	0	1	6	0
VELOCITY OF FLOW, m/sec													
(i) CURRENT METER							0	2	2	0	1	N	
(ii) FLOAT							0	2	2	0	2	N	
(iii) CHEMICAL							0	2	2	0	3	N	
TOTAL KJELDAHL NITROGEN, mg/L							0	7	0	0	1	N	
(i) TITRATION							0	7	0	0	4		
(ii) NITROGENIZATION							2	2	1	0	1	N	9
HARDNESS as CaCO ₃ , mg/L							2	2	1	0	1	N	9
TOTAL COLIFORM, MPN/100ml							3	7	0	0	1	N	4
TOTAL DISSOLVED SOLIDS, mg/L							3	3	3	3	3	N	1
FIXED DISSOLVED SOLIDS, mg/L							4	4	4	4	4	N	9
AMMONIA NITROGEN, mg/L													
(i) COLOURIMETRY							0	7	5	5	5	N	1
(ii) DISTILLATION TITRATION							0	7	5	5	1	N	3
BORON DISSOLVED, mg/L							0	5	1	0	5	N	
PHOSPHATE, mg/L													1
NITRITE, mg/L													0
NITRATE NITROGEN (NO ₃ -N), mg/L													0
TOTAL SUSPENDED SOLIDS, mg/L													1

SAMPLER

CHEMIST

REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

✓ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 1 0 1

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 5 0 9 1 7 1 0 2 0

3. WEATHER: ✓ Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. ✓100 cm. Flood

5. COLOUR & INTENSITY: Clear ✓ Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: ✓ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: ✓ none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming ✓ Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area ✓ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION: Mahanadi River, Raigarh
 TYPE: Interstate boundary near Surajgarh
 COMPLETED BY: S. K. Pradhan (Chemist)
 VERIFIED BY: S. K. Pradhan (Chemist)
 AGENCY: R. O. C. E. C. B. Raigarh

U/S of Town or Industrial Area	✓	D/S of Town or Industrial area	✓	Pilgrim Center / Bathing Ghat	✓	Abstraction For Water Supply	✓
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WHO CODE AQC FLAGE VALUE

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 3	
Ph	1 0 3 0	2 N 7 4	
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 0 2	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 8 7	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 1 1 0 3	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7 2	
BOD, mg/L	0 8 2 0	1 N 1 1 6	0
COD, mg/L	0 8 3 0	1 N 2 8	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 2 5	0
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 6 0	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 2 1	2 5
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 6	8 2
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0 2 1 0	1 N 5 2	0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0	0 1 N	
(ii) FLOAT	0 2 2 0	2 N	
(iii) CHEMICAL	0 2 2 0	3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0	0 1 N	
(ii) NESSELERIZATION	0 7 0 0	0 4	
HARDNESS as CaCO ₃ mg/L	2 2 1 0	0 1 N 7 9	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0	0 1 N 2 4 0	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 6 1	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5	5 N 1 2 6	
(ii) DISTILLATION TITRATION	0 7 5 5	5 1 N	
BORON DISSOLVED, mg/L	0 5 1 0	5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			
NITRATE NITROGEN (NO ₃ N), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			

SAMPLER

CHEMIST

REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 4 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 5 0 9 1 7 1 1 3 0

3. WEATHER: √ Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. √ >100 cm. Flood

5. COLOUR & INTENSITY: Clear √ Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: √ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √ none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √ Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Up Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAG VALUE DETERMINAND DETERMINAND VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 3	
pH	1 0 3 0	2 N 7 5	
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 0 4	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 9 0	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 1 1 0 3	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7 2	
BOD, mg/L	0 8 2 0	1 N 1 7	0
COD, mg/L	0 8 3 0	1 N 2 8	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 2 8	0
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 6 2	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 2 1	2
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 7 3 1	
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0 2 1 0	1 N 5 6	0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0	0 1 N	
(ii) FLOAT	0 2 2 0	2 N	
(iii) CHEMICAL	0 2 2 0	3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0	0 1 N	
(ii) NESSELERIZATION	0 7 0 0	0 4	
HARDNESS as CaCO ₃ mg/L	2 2 1 0	0 1 N 8 3	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0	0 1 N 2 4 0	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 5 4	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5	5 N 1 2 9	
(ii) DISTILLATION TITRATION	0 7 5 5	5 1 N	
BORON DISSOLVED, mg/L	0 5 1 0	5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			
NITRATE NITROGEN (NO ₃ N), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			

SAMPLER

SP
CHEMIST

Raigarh
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 5 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 5 0 9 1 7

3. WEATHER: √Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. √> 100 cm. Flood

5. COLOUR & INTENSITY: Clear √Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: √None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Down Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAGE VALUE

ARBITRARY CODE AQC FLAGE VALUE

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0	0 0 1 N 2 3	
pH	1	0 3 0 2 N 7 . 6	
CONDUCTIVITY, μmhos/cm	0	2 0 4 1 N 2 0 6 . 0	
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1	0 1 0 1 N	
(2) VISUAL TITRATION	1	0 1 0 2 N 1 0 5 . 0	
NITROGEN(NO ₃ + NO ₂), mg/L	0	7 1 0 5 N 1 . 1 2 4	
DISSOLVED OXYGEN, mg/L	0	8 1 0 1 N 7 . 1	
BOD, mg/L	0	8 2 0 1 N 2 . 4	
COD, mg/L	0	8 3 0 1 N 3 2 . 0	
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1	7 2 0 1 N 3 0 . 0	
(2) MERCURIMETRIC	1	7 2 0 1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1	6 3 0 1 N	
(2) TURBIDIMETRIC	1	6 3 0 2 N 6 4 . 0	
SODIUM, mg/L	1	1 1 0 3 N	
CALCIUM as CaCO ₃ , mg/L	2	0 1 0 1 N 2 3 . 2	
MAGNESIUM as CaCO ₃ , mg/L	1	2 1 0 3 N 7 . 8 0	
FECAL COLIFORM MPN/100mg/L	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9	7 1 6 7 N	

DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0	2 1 0 1 N 6 4 . 0	
VELOCITY OF FLOW, m/sec			
(I) CURRENT METER	0	2 2 0 1 N	
(II) FLOAT	0	2 2 0 2 N	
(III) CHEMICAL	0	2 2 0 3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(I) TITRATION	0	7 0 0 1 N	
(II) NESSELERIZATION	0	7 0 0 4	
HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 9 0 . 0	
TOTAL COLIFORM, MPN/100ml	3	7 0 0 1 N 4 6 0	
TOTAL DISSOLVED SOLIDS, mg/L	3	3 3 3 3 N 1 6 7 . 0	
FIXED DISSOLVED SOLIDS, mg/L	4	4 4 4 4 N	
AMMONIA NITROGEN, mg/L			
(I) COLOURIMETRY	0	7 5 5 5 N 1 . 3 1	
(II) DISTILLATION TITRATION	0	7 5 5 1 N	
BORON DISSOLVED, mg/L	0	5 1 0 5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			
NITRATE NITROGEN (NO ₃), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			

SAMPLER

CHEMIST

REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1 1 0 1

1. STATION CODE

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

1 9 1 0 1 7

3. WEATHER

Cloudy √ Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. >50 - 100 cm. √ 100 cm. Flood

5. COLOUR & INTENSITY

√ Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR

√ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√ none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming √ Fishing Other

9. LOCATION DETAIL

U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Mahanadi River, Raigarh
 TYPE : Interstate boundary near Surajgarh
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

DETERMINDAND	WHO CODE	AQC FLAG	VALUE	DETERMINDAND	ARBITRARY CODE	AQC FLAG	VALUE
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TEMPERATURE, °C	0	2	0	0	1	N	2	1		
Ph	1	0	3	0	2	N	7	5		
CONDUCTIVITY, µmhos/cm	0	2	0	4	1	N	1	9	4	0
ALKALINITY, mg/L										
(1) ELECTROMETRIC	1	0	1	0	1	N				
(2) VISUAL TITRATION	1	0	1	0	2	N	9	0	0	
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	0	5	N	1	0	2	
DISSOLVED OXYGEN, mg/L	0	8	1	0	1	N	6	9		
BOD, mg/L	0	8	2	0	1	N	0	8		
COD, mg/L	0	8	3	0	1	N	2	4	0	
CHLORIDE, mg/L										
(1) ARGENTOMETRIC	1	7	2	0	1	N	2	1	0	
(2) MERCURIMETRIC	1	7	2	0	1	N				
SULPHATE, mg/L										
(1) GRAVIMETRIC	1	6	3	0	1	N				
(2) TURBIDIMETRIC	1	6	3	0	2	N	5	2	0	
SODIUM, mg/L	1	1	1	0	3	N				
CALCIUM as CaCO ₃ , mg/L	2	0	1	0	1	N	1	9	6	
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	0	3	N	6	3	4	
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1	N				
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	6	7	N				

TURBIDITY, JTU/NTU	0	2	1	0	1	N	2	8	0	
VELOCITY OF FLOW, m/sec										
(i) CURRENT METER	0	2	2	0	1	N				
(ii) FLOAT	0	2	2	0	2	N				
(iii) CHEMICAL	0	2	2	0	3	N				
TOTAL KJELDAHL NITROGEN, mg/L										
(i) TITRATION	0	7	0	0	1	N				
(ii) NESSELERIZATION	0	7	0	0	4					
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	7	5	0	
TOTAL COLIFORM, MPN/100ml	3	7	0	0	1	N	1	5	0	
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3	3	3	N	1	5	8	0
FIXED DISSOLVED SOLIDS, mg/L	4	4	4	4	4	N				
AMMONIA NITROGEN, mg/L										
(i) COLOURIMETRY	0	7	5	5	5	N	1	1	9	
(ii) DISTILLATION TITRATION	0	7	5	5	1	N				
BORON DISSOLVED, mg/L	0	5	1	0	5	N				
PHOSPHATE, mg/L										
NITRITE, mg/L										
NITRATE NITROGEN (NO ₃ N), mg/L										
TOTAL SUSPENDED SOLIDS, mg/L										

S61

SAMPLER

S

CHEMIST

Raigarna
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 4 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 9 1 0 1 7

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. >100 cm. Flood

5. COLOUR & INTENSITY: √ Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: √ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √ none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √ Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Up Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE	DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 1		TURBIDITY, JTU/NTU	0 2 1 0	1 N 3 4	0
pH	1 0 3 0	2 N 7 5		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 1 9 6	0	(I) CURRENT METER	0 2 2 0	0 1 N	
ALKALINITY, mg/L				(II) FLOAT	0 2 2 0	2 N	
(1) ELECTROMETRIC	1 0 1 0	1 N		(III) CHEMICAL	0 2 2 0	3 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 9 2	0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 1 0 8 2		(I) TITRATION	0 7 0 0	0 1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 6 8		(II) NESSELERIZATION	0 7 0 0	0 4	
BOD, mg/L	0 8 2 0	1 N 1 2		HARDNESS as CaCO ₃ mg/L	2 2 1 0	0 1 N 7 8	0
COD, mg/L	0 8 3 0	1 N 2 8		TOTAL COLIFORM, MPN/100ml	3 7 0 0	0 1 N 2 1 0	
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 6 0	0
(1) ARGENTOMETRIC	1 7 2 0	1 N 2 5	0	AMMONIA NITROGEN, mg/L	4 4 4 4	4 N	
(2) MERCURIMETRIC	1 7 2 0	1 N		(I) COLOURIMETRY	0 7 5 5	5 N 1 2 3	
SULPHATE, mg/L				(II) DISTILLATION TITRATION	0 7 5 5	1 N	
(1) GRAVIMETRIC	1 6 3 0	1 N		BORON DISSOLVED, mg/L	0 5 1 0	5 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 5 6	0	PHOSPHATE, mg/L			0 8
SODIUM, mg/L	1 1 1 0	3 N		NITRITE, mg/L			0 0 2 2
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 2 0	4	NITRATE NITROGEN (NO ₃ N), mg/L			1 0 6
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 6	5 8	TOTAL SUSPENDED SOLIDS, mg/L			5 9 0
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N					
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N					

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CHEMIST

REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 5 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 9 1 0 1 7

3. WEATHER: Cloudy √Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. √> 100 cm. Flood

5. COLOUR & INTENSITY: Clear √Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: √None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing √Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Down Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

ARBITRARY CODE

DETERMINAND

WHO CODE

AQC FLAGE

VALUE

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0	0 0 1 N 2 1		TURBIDITY, JTU/NTU	0 2 1 0 1 N 4 7	0	
pH	1 0 3 0 2 N 7	6		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 9 8	0		(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii) FLOAT	0 2 2 0 2 N		
(1) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 0 2	0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 1 1 0 3			(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 8			(ii) NESSELERIZATION	0 7 0 0 4		
BOD, mg/L	0 8 2 0 1 N 2 3	0		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 8 9	0	
COD, mg/L	0 8 3 0 1 N 3 2	0		TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 2 4 0		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 6 5	0	
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 8	0		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2) MERCURIMETRIC	1 7 2 0 1 N			AMMONIA NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5 5 N 1 2 8		
(1) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 6 0	0		BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L		0 9	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 3	2		NITRITE, mg/L		0 2 3	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 7	5 6		NITRATE NITROGEN (NO ₃ N), mg/L		1 0 8	
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			TOTAL SUSPENDED SOLIDS, mg/L		7 2 0	
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N						

S.K.P.
SAMPLER

S.K.P.
CHEMIST

R. O. C. E. C. B.
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 1 0 1

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 1 1 1 1 7 0 9 2 0

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. √100 cm. Flood

5. COLOUR & INTENSITY: √Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: √None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: √ none moderate High

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming √ Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Mahanadi River, Raigarh
 TYPE : Interstate boundary near Surajgarh
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAG VALUE DETERMINAND ARBITRARY CODE AQC FLAG VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0	2	0	TURBIDITY, JTU/NTU	0	2	1
Ph	1	0	3	VELOCITY OF FLOW, m/sec	0	1	0
CONDUCTIVITY, µmhos/cm	0	2	0	(i) CURRENT METER	0	2	0
ALKALINITY, mg/L	0	2	0	(ii) FLOAT	0	2	0
(1) ELECTROMETRIC	1	0	1	(iii) CHEMICAL	0	2	0
(2) VISUAL TITRATION	1	0	1	TOTAL KJELDAHL NITROGEN, mg/L	0	2	0
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	(i) TITRATION	0	7	0
DISSOLVED OXYGEN, mg/L	0	8	1	(ii) NESSELERIZATION	0	7	0
BOD, mg/L	0	8	2	HARDNESS as CaCO ₃ mg/L	2	2	1
COD, mg/L	0	8	3	TOTAL COLIFORM, MPN/100ml	3	7	0
CHLORIDE, mg/L	0	8	3	TOTAL DISSOLVED SOLIDS, mg/L	3	3	3
(1) ARGENTOMETRIC	1	7	2	FIXED DISSOLVED SOLIDS, mg/L	4	4	4
(2) MERCURIMETRIC	1	7	2	AMMONIA NITROGEN, mg/L	0	4	4
SULPHATE, mg/L	1	6	3	(i) COLOURIMETRY	0	7	5
(1) GRAVIMETRIC	1	6	3	(ii) DISTILLATION TITRATION	0	7	5
(2) TURBIDIMETRIC	1	1	1	BORON DISSOLVED, mg/L	0	5	1
SODIUM, mg/L	2	0	1	PHOSPHATE, mg/L	0	5	1
CALCIUM as CaCO ₃ , mg/L	1	2	1	NITRITE, mg/L	0	0	8
MAGNESIUM as CaCO ₃ , mg/L	3	6	0	NITRATE NITROGEN (NO ₃ -N), mg/L	0	0	1
FECAL COLIFORM MPN/100mg/L	3	6	0	TOTAL SUSPENDED SOLIDS, mg/L	0	0	9
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1				

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 8 4 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 1 1 1 1 7

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. >50 - 100 cm. >100 cm. Flood

5. COLOUR & INTENSITY

√ Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR

√ None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√ none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing √ Other

9. LOCATION DETAIL

U/S of Town or Industrial Area	√ D/S of Town or Industrial area	Pilgrim Center / Bathing Ghat	Abstraction For Water Supply
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STATION : Kelo River, Raigarh
 TYPE : Up Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAG VALUE

DETERMINDAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 1 8		
pH	1 0 3 0 2 N 7 . 5		
CONDUCTIVITY, μmhos/cm	0 2 0 4 1 N 1 9 4		0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 9 0		0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 1 . 0 4		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 . 8		
BOD, mg/L	0 8 2 0 1 N 1 . 1		
COD, mg/L	0 8 3 0 1 N 2 3 . 0 4		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 4 . 0		
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 5 4 . 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 9 . 2		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 6 . 3 4		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		

DETERMINDAND ARBITRARY CODE AQC FLAG VALUE

DETERMINDAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0 2 1 0 1 N 2 0 . 0		
VELOCITY OF FLOW, m/sec			
(1) CURRENT METER	0 2 2 0 1 N		
(i) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N		
(i) NESSELERIZATION	0 7 0 0 4		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 7 4 . 0		
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 1 5 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 5 8 . 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1 . 1 7		
(i) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
NITRATE NITROGEN (NO ₃ N), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 8 5 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 1 1 1 1 7

3. WEATHER

Cloudy √Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. >50 - 100 cm. √>100 cm. Flood

5. COLOUR & INTENSITY

Clear √Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR

√None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√ none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming Fishing √Other

9. LOCATION DETAIL

U/S of Town or Industrial Area √D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh

TYPE : Down Stream of Raigarh City

COMPLETED BY : S. K. Pradhan (Chemist)

VERIFIED BY : S. K. Pradhan (Chemist)

AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAG VALUE

TEMPERATURE, °C	0	0	0	1	N	1	8					
pH	1	0	3	0	2	N	7	6				
CONDUCTIVITY, µmhos/cm	0	2	0	4	1	N	1	9	7	0		
ALKALINITY, mg/L												
(1) ELECTROMETRIC	1	0	1	0	1	N						
(2) VISUAL TITRATION	1	0	1	0	2	N	9	8	0			
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	0	5	N	1	0	6	1		
DISSOLVED OXYGEN, mg/L	0	8	1	0	1	N	6	6				
BOD, mg/L	0	8	2	0	1	N	2	2				
COD, mg/L	0	8	3	0	1	N	2	7	7			
CHLORIDE, mg/L												
(1) ARGENTOMETRIC	1	7	2	0	1	N	2	7	0			
(2) MERCURIMETRIC	1	7	2	0	1	N						
SULPHATE, mg/L												
(1) GRAVIMETRIC	1	6	3	0	1	N						
(2) TURBIDIMETRIC	1	6	3	0	2	N	5	4	0			
SODIUM, mg/L	1	1	1	0	3	N						
CALCIUM as CaCO ₃ , mg/L	2	0	1	0	1	N	2	2	4			
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	0	3	N	7	5	6			
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1	N						
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	6	7	N						

ARBITRARY CODE DETERMINAND AQC FLAG VALUE

TURBIDITY, JTU/NTU	0	2	1	0	1	N	3	9	0				
VELOCITY OF FLOW, m/sec													
(i) CURRENT METER	0	2	2	0	1	N							
(ii) FLOAT	0	2	2	0	2	N							
(iii) CHEMICAL	0	2	2	0	3	N							
TOTAL KIELDAHL NITROGEN, mg/L													
(i) TITRATION	0	7	0	0	1	N							
(ii) Nesslerization	0	7	0	0	4								
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	8	7	0				
TOTAL COLIFORM, MPN/100ml	3	7	0	0	1	N	2	1	0				
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3	3	3	N	1	6	1	0			
FIXED DISSOLVED SOLIDS, mg/L	4	4	4	4	4	N							
AMMONIA NITROGEN, mg/L													
(i) COLOURIMETRY	0	7	5	5	5	N	1	2	4				
(ii) DISTILLATION TITRATION	0	7	5	5	1	N							
BORON DISSOLVED, mg/L	0	5	1	0	5	N							
PHOSPHATE, mg/L										0	9		
NITRITE, mg/L										0	0	2	1
NITRATE NITROGEN (NO ₃ N), mg/L										1	0	4	
TOTAL SUSPENDED SOLIDS, mg/L										6	0	0	0


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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE

1 1 0 1

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)

2 6 1 2 1 7

3. WEATHER

Cloudy √ Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm. >50 - 100 cm. √100 cm. Flood

5. COLOUR & INTENSITY

√Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR

√None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

√none moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon Farming √Fishing Other

9. LOCATION DETAIL

U/S of Town or Industrial Area √D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Mahanadi River, Raigarh
 TYPE : Interstate boundary near Surajgarh
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO

ARBITRARY CODE

DETERMINAND

VALUE

AQC FLAGE

VALUE

AQC FLAGE

VALUE

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N	1 7	
Ph	1 0 3 0 2 N	7 5	
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N	1 9 1 0	
ALKALINITY, mg/L	1 0 1 0 1 N		
(1) ELECTROMETRIC	1 0 1 0 2 N	9 0	
(2) VISUAL TITRATION	0 7 1 0 5 N	0 9 5 9	
NITROGEN(NO ₃ + NO ₂), mg/L	0 8 1 0 1 N	6 8	
DISSOLVED OXYGEN, mg/L	0 8 2 0 1 N	0 7	
BOD, mg/L	0 8 3 0 1 N	2 3 7 1	
COD, mg/L	1 7 2 0 1 N	2 3 0	
CHLORIDE, mg/L	1 7 2 0 1 N		
(1) ARGENTOMETRIC	1 6 3 0 1 N		
(2) MERCURIMETRIC	1 6 3 0 2 N	4 8 0	
SULPHATE, mg/L	1 1 1 0 3 N		
(1) GRAVIMETRIC	2 0 1 0 1 N	1 9 6	
(2) TURBIDIMETRIC	1 2 1 0 1 N	6 0 9	
SODIUM, mg/L	3 6 0 1 1 N		
CALCIUM as CaCO ₃ , mg/L	9 7 1 6 7 N		
MAGNESIUM as CaCO ₃ , mg/L			
FECAL COLIFORM MPN/100mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s			

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0 2 1 0 1 N	1 0	
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KIJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) NITROSELENERIZATION	0 7 0 0 4		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	7 4	
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N	6 4	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	1 4 0	
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N	1 0 9 8	
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
NITRATE NITROGEN (NO ₃ N), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE 1 8 4 9
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 6 1 2 1 7 1 1 4 0
3. WEATHER Cloudy √ Clear Windy Raining
4. APPROX DEPTH OF MAIN STREAM <50cm. >50 - 100 cm. √ >100 cm. Flood
5. COLOUR & INTENSITY √ Clear Turbid Green Brown 1=Light 2=Moderate 3=High
6. ODOUR √ None Fishy H₂S Other
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY √ none moderate High
8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fishing √ Other
9. LOCATION DETAIL U/S of Town or Industrial Area √ D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Up Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0 2	0 0	1 1 7	TURBIDITY, JTU/NTU	0 2	1 0	1 1 6
pH	1 0	3 0	2 7 5	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µmhos/cm	0 2	0 4	1 9 3	(i) CURRENT METER	0 2	2 0	1 1
ALKALINITY, mg/L				(ii) FLOAT	0 2	2 0	2 1
(1) ELECTROMETRIC	1 0	1 0	1 N	(iii) CHEMICAL	0 2	2 0	3 N
(2) VISUAL TITRATION	1 0	1 0	2 N 9 2	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7	1 0	5 N 0 9 7 9	(i) TITRATION	0 7	0 0	1 N
DISSOLVED OXYGEN, mg/L	0 8	1 0	1 N 6 8	(ii) NESSELERIZATION	0 7	0 0	4 N
BOD, mg/L	0 8	2 0	1 N 0 9	HARDNESS as CaCO ₃ mg/L	2 2	1 0	1 N 7 6
COD, mg/L	0 8	3 0	1 N 2 7 6 6	TOTAL COLIFORM, MPN/100ml	3 7	0 0	1 N 7 5
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	3 3	3 3	3 N 1 5 3
(1) ARGENTOMETRIC	1 7	2 0	1 N 2 5 0	AMMONIA NITROGEN, mg/L	4 4	4 4	4 N
(2) MERCURIMETRIC	1 7	2 0	1 N	(i) COLOURIMETRY	0 7	5 5	5 N 1 1 2
SULPHATE, mg/L	1 6	3 0	1 N	(ii) DISTILLATION TITRATION	0 7	5 5	1 N
(1) GRAVIMETRIC	1 6	3 0	2 N 5 2 0	BORON DISSOLVED, mg/L	0 5	1 0	5 N
(2) TURBIDIMETRIC	1 1	1 0	3 N	PHOSPHATE, mg/L			0 8
SODIUM, mg/L	1 1	1 0	3 N	NITRITE, mg/L			0 0 1 9
CALCIUM as CaCO ₃ , mg/L	2 0	1 0	1 N 2 0 0	NITRATE NITROGEN (NO ₃ N), mg/L			0 9 6
MAGNESIUM as CaCO ₃ , mg/L	1 2	1 0	3 N 6 3 4	TOTAL SUSPENDED SOLIDS, mg/L			3 2 0
FECAL COLIFORM MPN/100mg/L	3 6	0 1	1 N				
INSTANTANEOUS DISCHARGE, m ³ /s	9 7	1 6	7 N				

R. Pradhan
 REGIONAL OFFICER

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 5 1 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 6 1 2 1 7

3. WEATHER: Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM: <50cm. >50 - 100 cm. >100 cm. Flood

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate high

8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fishing Other

9. LOCATION DETAIL: U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : Kelo River, Raigarh
 TYPE : Down Stream of Raigarh City
 COMPLETED BY : S. K. Pradhan (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAGE VALUE

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0	0 0 1 N 1 8	
pH	1	0 3 0 2 N 7 . 6	
CONDUCTIVITY, µmhos/cm	0	2 0 4 1 N 1 9 6 . 0	
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1	0 1 0 1 N	
(2) VISUAL TITRATION	1	0 1 0 2 N 1 0 2 . 0	
NITROGEN(NO ₃ + NO ₂), mg/L	0	7 1 0 5 N 1 . 0 4	
DISSOLVED OXYGEN, mg/L	0	8 1 0 1 N 6 . 6	
BOD, mg/L	0	8 2 0 1 N 2 . 3	
COD, mg/L	0	8 3 0 1 N 3 5 . 5 6	
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1	7 2 0 1 N 2 6 . 0	
(2) MERCURIMETRIC	1	7 2 0 1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1	6 3 0 1 N	
(2) TURBIDIMETRIC	1	6 3 0 2 N 5 2 . 0	
SODIUM, mg/L	1	1 0 1 0 3 N	
CALCIUM as CaCO ₃ , mg/L	2	0 1 0 1 N 2 2 . 8	
MAGNESIUM as CaCO ₃ , mg/L	1	2 1 0 3 N 7 . 5 6	
FECAL COLIFORM MPN/100mg/L	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9	7 1 6 7 N	

DETERMINDAND

DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0	2 1 0 1 N 3 5 . 0	
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0	2 0 1 N	
(ii) FLOAT	0	2 0 2 N	
(iii) CHEMICAL	0	2 0 3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0	7 0 0 1 N	
(ii) NITROGENIZATION	0	7 0 0 4	
HARDNESS as CaCO ₃ , mg/L	2	2 1 0 1 N 8 8 . 0	
TOTAL COLIFORM, MPN/100ml	3	7 0 0 1 N 1 2 0 . 0	
TOTAL DISSOLVED SOLIDS, mg/L	3	3 3 3 3 N 1 5 9 . 0	
FIXED DISSOLVED SOLIDS, mg/L	4	4 4 4 4 N	
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0	7 5 5 5 N 1 . 2 2	
(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
BORON DISSOLVED, mg/L	0	5 1 0 5 N	
PHOSPHATE, mg/L			
NITRITE, mg/L			0 . 9
NITRATE, mg/L			0 . 0 2
NITRATE NITROGEN (NO ₃ N), mg/L			1 . 0 2
TOTAL SUSPENDED SOLIDS, mg/L			5 4 . 0

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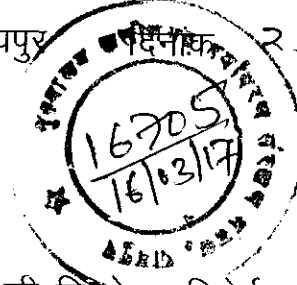
क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल
कबीर नगर व्यवसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 4303/क्षेका/वैज्ञा/छ.प.सं.मं/2017 रायपुर दिनांक 25/02/2017

प्रति,

सदस्य सचिव महोदय,
छ.ग. पर्यावरण संरक्षण मंडल,
मंडल मुख्यालय, नया रायपुर (छ.ग.)



विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनों की विश्लेषण रिपोर्ट माह जनवरी 2017.
महोदय,

उपरोक्त विषयांतर्गत माह जनवरी 2017 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल स्रोतों के जल नमूनों का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

क्र.	जल नमूने का विवरण	स्टेशन क.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।
02	महानदी रूद्री जलाशय, ग्राम रूद्री (धमतरी जलाशय के उपरी भाग)	1264	रिपोर्ट संलग्न है।
03	खारून नदी भाटागांव, रायपुर (वाटर सप्लाई इन्टेकवेल के समीप)	1265	रिपोर्ट संलग्न है।
04	शिवनाथ नदी सिमगा (सिमगा-बेमेतरा रोड ब्रिज के समीप)	1266	रिपोर्ट संलग्न है।
05	खारून नदी बेन्द्री (वाटर सप्लाई इन्टेकवेल के समीप)	1853	रिपोर्ट संलग्न है।
06	महानदी सिहावा (उदगम स्थल)	1851	रिपोर्ट संलग्न है।
07	महानदी आरंग (रोड ब्रिज के समीप)	1852	रिपोर्ट संलग्न है।
08	बोरवेल न्यू एच.आई.जी.-11, टाटीबंध, रायपुर	1620	रिपोर्ट संलग्न है।
09	बोरवेल मेसर्स प्रकृति इण्डस्ट्रीज, रावांभाठा, रायपुर	1621	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

क्षेत्रीय अधिकारी

क्षेत्रीय कार्यालय, रायपुर (छ.ग.)
/ / 2017

पृ.क. /क्षेका/वैज्ञा/छ.प.सं.मं/2017 रायपुर, दिनांक

प्रतिलिपि :-

- श्री आर.सी. त्रिवेदी, अतिरिक्त निदेशक (PAMS Division), केन्द्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, पूर्वी अर्जुन नगर नई दिल्ली - 110032 की ओर निर्देशानुसार सूचनार्थ प्रेषित।
- आंचलिक अधिकारी, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, आंचलिक कार्यालय (मध्य) तृतीय तल सहकार भवन नॉर्थ टी.टी. नगर भोपाल की ओर सूचनार्थ प्रेषित।

CE(VC)/ACE(R/L) / 550
SE(B/M/S)/EE/CO
PRO/SO(Ag)/Sf.O/SO-III

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

MEMBER SECRETARY

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT										
	1	0	9	9	1	1	7	1	7	3	0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	3	1	0	1	1	7					
3. WEATHER	Cloudy		√Clear	Windy	Raining						
4. APPROX. DEPTH OF MAIN STREAM	<50 cm	50-100 cm	>100 cm	Flood							
5. COLOUR & INTENSITY	√Clear	Turbid	Green	Brown							
6. ODOUR	√None	fishy	H ₂ S	Other							
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None		Moderate	High							
8. HUMAN ACTIVITIES AROUND STATION	Cattle		√melon Forming	Other							
9. LOCATION DETAIL	√U/s of town or Industrial area		D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat							

PHYSICO-CHEMICAL PARAMETERS VALUE MICRO POLLUTANT (WATER) VALUE MICRO POLLUTANT (SEDIMENT) VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)	VALUE	MICRO POLLUTANT (SEDIMENT)	VALUE
TEMPERATURE °C	24.0	ARSENIC, µg/L		ARSENIC, µg/L	
pH	7.84	CADMIUM, µg/L		CADMIUM, µg/KG	
CONDUCTIVITY µS/CM	267.0	COPPER, µg/L		COPPER, µg/L	
ALKALINITY MG/L (TOTAL)		CHROMIUM (TOTAL), µg/L		CHROMIUM (TOTAL), µg/KG	
(I) ELECTROMETRIC		NICKEL, µg/L		NICKEL, µg/L	
(II) VISUAL TITRATION	118.0	ZINC, µg/L		ZINC, µg/L	
NITROGEN (NO ₂) MG/L	1.1	MERCURY, µg/L		MERCURY, µg/L	
DISSOLVED OXYGEN MG/L	6.9	IRON (TOTAL), µg/L		IRON (TOTAL), MG/KG	
BOD MG/L	2.4	LEAD, µg/L		LEAD, µg/KG	
COD MG/L	19.8	BHC (TOTAL), µg/L		BHC (TOTAL), µg/L	
CHLORIDE MG/L		DDT (TOTAL), µg/L		DDT (TOTAL), µg/L	
(I) ARGENTOMETRIC	32.0	ENDOSULPHAN, µg/L		ENDOSULPHAN, µg/L	
(II) MERCURIMETRIC		DIELDRIN, µg/L		DIELDRIN, µg/L	
SULPHATE MG/L		ELDRINE, µg/L		ELDRINE, µg/L	
(I) GRAVIMETRIC	14.0	CARBAMATE, µg/L		CARBAMATE, µg/L	
(II) TURBIDITY MATRIC	11.0	2-4D, µg/L		2-4D, µg/L	
SODIUM MG/L	26.4	MELATHION, µg/L		MELATHION, µg/L	
CALCIUM as CaCO ₃ MG/L	7.31	PARATHION, µg/L		PARATHION, µg/L	
MAGNESIUM as CaCO ₃ MG/L					
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M ³ /S					
PHYSICO-CHEMICAL PARAMETERS	VALUE	PHYSICO-CHEMICAL PARAMETERS	VALUE	BIO MONITORING	VALUE
TURBIDITY JT/NTU	24.0	FIXED DISSOLVED SOLID MG/L	84.0	SAPROBITY	
VELOCITY OF FLOW M/SEC		AMMONIA NITROGEN MG/L		DIVERSITY INDAX	
(I) CURRENT METER		(I) COLOURIMETRIC MG/L		P/R RATIO	
(II) FLOAL		(II) DISTILLATION TITRATION MG/L			
(III) CHEMICAL		BORAN DISSOLVED MG/L			
TOTAL KJELDAHAL NITROGEN MG/L		PHOSPHATE MG/L	1.3		
(I) TITRATION		NITRATE (NO ₃) MG/L			
(II) NESSELERIZATION		PHENOLPHTHALEIN ALKALINITY MG/L			
HARDNESS AS CaCO ₃ MG/L	96.0	TOTAL SUSPENDED SOLID MG/L	32.0		
TOTAL COLIFORM MPN/100ML	170.0	POTASSIUM MG/L	5.0		
TOTAL DISSOLVED SOLID MG/L	136.0	FLUORIDE MG/L	0.23		

Signature

15/12

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

V MINARS/GEMS

1. STATION CODE		1	2	6	4	MINDAT / GLOWDAT								
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	3	1	0	1	1	1	7	1	1	7	3	0	STATION :	RIVER MAHANADI AT RUDRI DAM,
3. WEATHER		Cloudy	√Clear	Windy									U/S RESERVOIR, DHAMTARI	
4. APPROX. DEPTH OF MAIN STREAM		<50 cm	50-100 cm	√>100 cm									RIVER WATER	
5. COLOUR & INTENSITY		√Clear	Turbid	Green									COMPLETED BY :	S.K.Khanna (Lab Asst. Grade II)
6. ODOUR		√None	fishy	H ₂ S									VERIFIED BY :	Scientist
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT		Cattle	√None	Moderate									AGENCY :	REGIONAL OFFICE CHHATTISGARH
8. HUMAN ACTIVITIES AROUND STATION		√U/s of town or	Industrial area	D/s of Town or										ENVIRONMENT CONSERVATION
9. LOCATION DETAIL		Industrial area		Industrial area										BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS

PARAMETERS	VALUE
TEMPERATURE °C	25.0
pH	7.74
CONDUCTIVITY μS/CM	268.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	110.0
NITROGEN (NO ₂) MG/L	1.2
DISSOLVED OXYGEN MG/L	6.8
BOD MG/L	2.4
COD MG/L	11.88
CHLORIDE MG/L	
(I) ARGENTOMETRIC	23.0
(II) MERCURIMETRIC	
SULPHATE MG/L	
(I) GRAVIMETRIC	13.0
(II) TURBIDITY MATRIC	12.0
SODIUM MG/L	30.4
CALCIUM as CaCO ₃ MG/L	6.34
MAGNESIUM as CaCO ₃ MG/L	
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS	
TURBIDITY JTU/NTU	13.0
VELOCITY OF FLOW M/SEC	
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) NESSELERIZATION	
HARDNESS AS CaCO ₃ MG/L	102.0
TOTAL COLIFORM MPN/100ML	110.0
TOTAL DISSOLVED SOLID MG/L	168.0
ARSENIC, μg/L	
CADMIUM, μg/L	

MICRO POLLUTANT (WATER)

PARAMETERS	VALUE
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
PHYSICO-CHEMICAL PARAMETERS	
FIXED DISSOLVED SOLID MG/L	80.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	1.2
PHOSPHATE MG/L	
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	20.0
POTASSIUM MG/L	6.0
FLUORIDE MG/L	0.4
ARSENIC, μg/L	
CADMIUM, μg/KG	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	

MICRO POLLUTANT (SEDIMENT)

PARAMETERS	VALUE
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), MG/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	
VALUE	

Signature

Signature

Signature

Signature

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	2	6	5							
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	5	0	1	1	1	7	1	4	0	0
3. WEATHER	Cloudy		√Clear	Windy	√Clear	Windy	√>100 cm	Raining	√Clear	Windy	√>100 cm
4. APROX. DEPTH OF MAIN STREAM	< 50 cm		√Clear	Turbid	fishy	H ₂ S	Moderate	High	√None	Other	High
5. COLOUR & INTENSITY	√None		√None	melon forming	√Other						
6. ODOUR	√None		√None	melon forming	√Other						
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle		√None	melon forming	√Other						
8. HUMAN ACTIVITIES AROUND STATION	√U/s of town or Industrial area		√None	melon forming	√Other						
9. LOCATION DETAIL	Pilgrim Centre / Bathing Ghat		√None	Industrial area	√Other						

MINDAT / GLOWDAT	
STATION	: RIVER KHAROON AT BHATAGAON
TYPE	: U/S Near w/s intake well
COMPLETED BY	: RIVER
VERIFIED BY	: S.K.Khanna (Lab Asst. Grade II)
AGENCY	: Scientist
	: REGIONAL OFFICE CHHATTISGARH
	: ENVIRONMENT CONSERVATION
	: BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS

	2	5	0	VALUE
TEMPERATURE °C	2	5	0	
pH	7	4	8	
CONDUCTIVITY μS/CM	2	4	0	
ALKALINITY MG/L (TOTAL)				
(I) ELECTROMETRIC				
(II) VISUAL TITRATION	1	3	4	0
NITROGEN (NO ₂) MG/L	1	2		
DISSOLVED OXYGEN MG/L	6	5		
BOD MG/L	2	3		
COD MG/L	1	9	8	
CHLORIDE MG/L				
(I) ARGENTOMETRIC	3	3	0	
(II) MERCURIMATRIC				
SULPHATE MG/L				
(I) GRAVIMETRIC				
(II) TURBIDITY MATRIC	1	3	0	
SODIUM MG/L	1	1	0	
CALCIUM as CaCO ₃ MG/L	3	1	2	
MAGNESIUM as CaCO ₃ MG/L	8	2	9	
FECAL COLIFORM MPN/100 ML				
INSTANTANEOUS DISCHARGE M ³ /S				
PHYSICO-CHEMICAL PARAMETERS				VALUE
TURBIDITY JTU/NTU	2	5	0	
VELOCITY OF FLOW M/SEC				
(I) CURRENT METER				
(II) FLOAL				
(III) CHEMICAL				
TOTAL KJELDAHAL NITROGEN MG/L				
(I) TITRATION				
(II) NESSELERIZATION				
HARDNESS AS CaCO ₃ MG/L	1	1	2	0
TOTAL COLIFORM MPN/100 ML	3	0	0	0
TOTAL DISSOLVED SOLID MG/L	1	4	4	0

MICRO POLLUTANT (WATER)

	VALUE		
ARSENIC, μg/L			
CADMIUM, μg/L			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/L			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), μg/L			
LEAD, μg/L			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
FIXED DISSOLVED SOLID MG/L	7	8	0
AMMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L			
PHOSPHATE MG/L	1	3	
NITRATE MG/L			
PHENOL PHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	3	2	0
POTASSIUM MG/L	7	0	
FLUORIDE MG/L	0	2	3
ARSENIC, μg/L			

MICRO POLLUTANT (SEDIMENT)

	VALUE
CADMIUM, μg/KG	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

Sume

Chh

8

13th

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT					
	2	4	6	1	7	0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	4	0	1	1	0
3. WEATHER	Cloudy	√Clear	√Clear	Windy	Raining	
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	√50-100 cm	> 100 cm	Flood		
5. COLOUR & INTENSITY	√Clear	Turbid	Green	Brown		
6. ODOUR	√None	fishy	H ₂ S	Other		
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None	√None	Moderate	High		
8. HUMAN ACTIVITIES AROUND STATION	Cattle	U/s of town or Industrial area	U/s of town or Industrial area	D/s of Town or Industrial area	Pilgrim Centre / √Bathing Ghat	
9. LOCATION DETAIL	RIVER SHEONATH AT SIMGA NEAR SIMGA - BEMETARA ROAD BRIDGE					
	RIVER					
	S.K.Khanna (Lab. Asst. Grade II)					
	Scientist					
	REGIONAL OFFICE CHHATTISGARH					
	ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)					

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	5	0
pH	7	8	6
CONDUCTIVITY μSCM	2	8	7
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	2	3
NITROGEN (NO ₂) MG/L	1	1	
DISSOLVED OXYGEN MG/L	6	4	
BOD MG/L	3	1	
COD MG/L	2	3	7
CHLORIDE MG/L			6
(I) ARGENTOMETRIC	3	2	0
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC	1	6	0
(II) TURBIDITY MATRIC	1	2	0
SODIUM MG/L	2	9	2
CALCIUM as CaCO ₃ MG/L	7	3	1
MAGNESIUM as CaCO ₃ MG/L			
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY JTU/NTU			
VELOCITY OF FLOW M/SEC	1	6	0
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION			
HARDNESS AS CaCO ₃ MG/L	1	0	3
TOTAL COLIFORM MPN/100ML	2	8	0
TOTAL DISSOLVED SOLID MG/L	1	6	4

MICRO POLLUTANT (WATER) VALUE

ARSENIC, μg/L			
CADMIIUM, μg/L			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/L			
NICKEL, μg/L			
ZINC, μg/L			
IRON (TOTAL), μg/L			
MERCURY, μg/L			
LEAD, μg/L			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
FIXED DISSOLVED SOLID MG/L	1	0	2
AMMONIA NITROGEN MG/L			0
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L			
PHOSPHATE MG/L	1	3	
NITRATE (NO ₃) MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	2	8	0
POTASSIUM MG/L	7	0	
FLUORIDE MG/L	0	6	
ARSENIC, μg/L			
CADMIIUM, μg/L			
COPPER, μg/L			

MICRO POLLUTANT (SEDIMENT) VALUE

CHROMIUM (TOTAL), μg/KG		
NICKEL, μg/L		
ZINC, μg/L		
MERCURY, μg/L		
IRON (TOTAL), MG/KG		
LEAD, μg/KG		
BHC (TOTAL), μg/L		
DDT (TOTAL), μg/L		
ENDOSULPHAN, μg/L		
DIELDRIN, μg/L		
ELDRINE, μg/L		
CARBAMATE, μg/L		
2-4D, μg/L		
MELATHION, μg/L		
PARATHION, μg/L		
BIO MONITORING	VALUE	
SAPROBITY		
DIVERSITY INDAX		
P/R RATIO		

18/04

As

(Signature)

(Signature)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	8	5	3						
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	3	0	1	1	7	1	4	3	0
3. WEATHER	Cloudy	√Clear	Windy	Raining						
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	√Clear	Turbid	> 100 cm	Flood					
5. COLOUR & INTENSITY	√None	Fishy	H ₂ S	Other						
6. ODOUR	√None	melon	Forming	Other						
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle	√U/s of town or	D/s of Town or	Pilgrim Centre /						
8. HUMAN ACTIVITIES AROUND STATION	Industrial area	Industrial area	Industrial area	Bathing Ghat						
9. LOCATION DETAIL										
	MINDAT / GLOWDAT									
	STATION : RIVER KHARON AT BENDRI VILLAGE									
	U/s near CSIDC w/s intake well									
	TYPE : RIVER									
	COMPLETED BY : S.K.Khanna (Lab Asst. Grade II)									
	VERIFIED BY : Scientist									
	AGENCY : REGIONAL OFFICE CHHATTISGARH									
	ENVIRONMENT CONSERVATION									
	BOARD RAIPUR (C G)									

PHYSICO-CHEMICAL PARAMETERS

PARAMETER	VALUE
TEMPERATURE °C	25.0
pH	7.4
CONDUCTIVITY μS/CM	298.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	112.0
NITROGEN (NO ₃) MG/L	1.1
DISSOLVED OXYGEN MG/L	6.9
BOD MG/L	2.6
COD MG/L	237.6
CHLORIDE MG/L	
(I) ARGENTOMETRIC	30.0
(II) MERCURIMATRIC	
SULPHATE MG/L	
(I) GRAVIMATRIC	12.0
(II) TURBIDITY MATRIC	
SODIUM MG/L	11.0
CALCIUM as CaCO ₃ MG/L	29.6
MAGNESIUM as CaCO ₃ MG/L	82.9
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS	
TURBIDITY JTUNTU	22.0
VELOCITY OF FLOW M/SEC	
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) NESSELERIZATION	
HARDNESS AS CaCO ₃ MG/L	108.0
TOTAL COLIFORM MPN/100 ML	300.0
TOTAL DISSOLVED SOLID MG/L	168.0

MICRO POLLUTANT (WATER)

PARAMETER	VALUE
ARSENIC, μg/L	
CADMIUM, μg/L	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
PHYSICO-CHEMICAL PARAMETERS	
FIXED DISSOLVED SOLID MG/L	108.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORON DISSOLVED MG/L	
PHOSPHATE MG/L	1.2
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	24.0
POTASSIUM MG/L	5.0
FLUORIDE MG/L	0.5

MICRO POLLUTANT (SEDIMENT)

PARAMETER	VALUE
ARSENIC, μg/L	
CADMIUM, μg/KG	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), MG/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	
SAPROBITY	
DIVERSITY INDEX	
P/R RATIO	

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	8	5	1	MINDAT / GLOWDAT					
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	3	1	0	1	1	7	1	7	3	0
3. WEATHER	Cloudy		√Clear		Windy	Raining		RIVER MAHANADI AT SIHAWA		
4. APROX. DEPTH OF MAIN STREAM	< 50 cm		50-100 cm		> 100 cm	Flood		ORIGIN POINT OF RIVER MAHANADI		
5. COLOUR & INTENSITY	√Clear		Turbid		Green	Brown		RIVER		
6. ODOUR	√None		fishy		H ₂ S	Other		S.K.Khanna (Lab Asst. Grade II)		
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle		√None		Moderate	High		Scientist		
8. HUMAN ACTIVITIES AROUND STATION	√U/s of town or		Industrial area		D/s of Town or	Pilgrim Centre /		REGIONAL OFFICE CHHATTISGARH		
9. LOCATION DETAIL	Industrial area		Industrial area		Industrial area	Bathing Ghat		ENVIRONMENT CONSERVATION		
								BOARD RAIPUR (C G)		

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	4	0	VALUE
pH	7	6	4	
CONDUCTIVITY μS/CM	2	4	0	
ALKALINITY MG/L (TOTAL)				
(I) ELECTROMETRIC				
(II) VISUAL TITRATION	1	0	2	0
NITROGEN (NO ₂) MG/L	1	0		
DISSOLVED OXYGEN MG/L	6	4		
BOD MG/L	2	1		
COD MG/L	7	9	2	
CHLORIDE MG/L				
(I) ARGENTOMETRIC	2	4	0	
(II) MERCURIMATRIC				
SULPHATE MG/L				
(I) GRAVIMATRIC				
(II) TURBIDITY MATRIC	1	0	0	
SODIUM MG/L	9	0		
CALCIUM as CaCO ₃ MG/L	2	6	4	
MAGNESIUM as CaCO ₃ MG/L	5	8	5	
FECAL COLIFORM MPN/100 ML				
INSTANTANEOUS DISCHARGE M ³ /S				
PHYSICO-CHEMICAL PARAMETERS	VALUE			
TURBIDITY JTUN/TU	1	1	0	
VELOCITY OF FLOW M/SEC				
(I) CURRENT METER				
(II) FLOAL				
(III) CHEMICAL				
TOTAL KJELDAHAL NITROGEN MG/L				
(I) TITRATION				
(II) NESSELERIZATION				
HARDNESS AS CaCO ₃ MG/L	9	0	0	
TOTAL COLIFORM MPN/100ML	2	4	0	0
TOTAL DISSOLVED SOLID MG/L	1	6	4	0

MICRO POLLUTANT (WATER) VALUE

ARSENIC, μg/L				
CADMIUM, μg/L				
COPPER, μg/L				
CHROMIUM (TOTAL), μg/L				
NICKEL, μg/L				
ZINC, μg/L				
MERCURY, μg/L				
IRON (TOTAL), μg/L				
LEAD, μg/L				
BHC (TOTAL), μg/L				
DDT (TOTAL), μg/L				
ENDOSULPHAN, μg/L				
DIELDRIN, μg/L				
ELDRINE, μg/L				
CARBAMATE, μg/L				
2-4D, μg/L				
MELATHION, μg/L				
PARATHION, μg/L				
PHYSICO-CHEMICAL PARAMETERS	VALUE			
FIXED DISSOLVED SOLID MG/L	7	7	0	
AMMONIA NITROGEN MG/L				
(I) COLOURIMETRIC MG/L				
(II) DISTILLATION TITRATION MG/L				
BORAN DISSOLVED MG/L				
PHOSPHATE MG/L	1	1		
NITRATE (NO ₃) MG/L				
PHENOLPHTHALEIN ALKALINITY MG/L				
TOTAL SUSPENDED SOLID MG/L	1	8	0	
POTASSIUM MG/L	4	0		
FLUORIDE MG/L	0	1	7	
ARSENIC, μg/L				

MICRO POLLUTANT (SEDIMENT) VALUE

CADMIUM, μg/KG			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/KG			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), MG/KG			
LEAD, μg/KG			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			
BIO MONITORING	VALUE		

SAPROBITY			
DIVERSITY INDAX			
P/R RATIO			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT												
	1	8	5	2	1	0	1	1	1	7	1	5	4
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	RIVER MAHANADI AT ARANG												
3. WEATHER	NEAR GANDHI SETU NH -6												
4. APPROX. DEPTH OF MAIN STREAM	RIVER												
5. COLOUR & INTENSITY	S.K.Khanna (Lab Asst. Grade II)												
6. ODOUR	Scientist												
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	REGIONAL OFFICE CHHATTISGARH												
8. HUMAN ACTIVITIES AROUND STATION	ENVIRONMENT CONSERVATION												
9. LOCATION DETAIL	BOARD RAIPUR (C G)												

PHYSICO-CHEMICAL PARAMETERS VALUE

PARAMETER	2	4	0
TEMPERATURE °C	7	8	2
pH	3	1	0
CONDUCTIVITY µS/CM			
ALKALINITY MG/L (TOTAL)			
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	1	6
NITROGEN (NO ₂) MG/L	1	1	
DISSOLVED OXYGEN MG/L	7	1	
BOD MG/L	3	2	
COD MG/L	1	5	8
CHLORIDE MG/L			
(I) ARGENTOMETRIC	2	8	0
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC			
(II) TURBIDITY MATRIC	1	4	0
SODIUM MG/L	1	3	0
CALCIUM as CaCO ₃ MG/L	3	0	4
MAGNESIUM as CaCO ₃ MG/L	7	3	1
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

PHYSICO-CHEMICAL PARAMETERS VALUE

PARAMETER	8	4	0
TURBIDITY JT/UNTU	1	6	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION			
HARDNESS AS CaCO ₃ MG/L	1	0	6
TOTAL COLIFORM MPN/100ML	3	0	0
TOTAL DISSOLVED SOLID MG/L	1	5	4

MICRO POLLUTANT (WATER) VALUE

PARAMETER	VALUE
ARSENIC, µg/L	
CADMIUM, µg/L	
COPPER, µg/L	
CHROMIUM (TOTAL), µg/L	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), µg/L	
LEAD, µg/L	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	

PHYSICO-CHEMICAL PARAMETERS VALUE

PARAMETER	8	4	0
FIXED DISSOLVED SOLID MG/L			
AMMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L			
PHOSPHATE MG/L	1	3	
NITRATE (NO ₃) MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	2	2	0
POTASSIUM MG/L	6	0	
FLUORIDE MG/L	0	2	3
ARSENIC, µg/L			

MICRO POLLUTANT (SEDIMENT) VALUE

PARAMETER	VALUE
CADMIUM, µg/KG	
COPPER, µg/L	
CHROMIUM (TOTAL), µg/KG	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), Mg/KG	
LEAD, µg/KG	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	

BIO MONITORING VALUE

PARAMETER	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE		1	6	2	0	1	1	7	1	4	0	0
1.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	5	0	1	1	1	7	1	4	0	0
3.	WEATHER	Cloudy										
4.	APPROX. DEPTH OF MAIN STREAM	50-100 cm										
5.	COLOUR & INTENSITY	√Clear Turbid Green Brown										
6.	ODOUR	√None fishy H ₂ S Other										
7.	VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	√None melon Forming Other										
8.	HUMAN ACTIVITIES AROUND STATION	Cattle U/s of town or Industrial area D/s of Town or Industrial area Pilgrim Centre / Bathing Ghat										
9.	LOCATION DETAIL											

MINDAT / GLOWDAT

STATION	: BORE WELL WATER
TYPE	: New H.I.G. II, Tatibandh, Raipur
COMPLETED BY	: BORE WELL WATER
VERIFIED BY	: S.K.Khanna (Lab Asst. Grade II)
AGENCY	: Scientist
	: REGIONAL OFFICE CHHATTISGARH
	: ENVIRONMENT CONSERVATION
	: BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS

PARAMETERS	2	3	0	7	3	6	5	3	8	0
TEMPERATURE °C										
pH										
CONDUCTIVITY μS/CM										
ALKALINITY MG/L (TOTAL)										
(I) ELECTROMETRIC										
(II) VISUAL TITRATION										
NITROGEN (NO ₃) MG/L										
DISSOLVED OXYGEN MG/L										
BOD MG/L										
COD MG/L										
CHLORIDE MG/L										
(I) ARGENTOMETRIC										
(II) MERCURIMETRIC										
SULPHATE MG/L										
(I) GRAVIMETRIC										
(II) TURBIDITY MATRIC										
SODIUM MG/L										
CALCIUM as CaCO ₃ MG/L										
MAGNESIUM as CaCO ₃ MG/L										
FECAL COLIFORM MPN/100 ML										
INSTANTANEOUS DISCHARGE M ³ /S										
PHYSICO-CHEMICAL PARAMETERS	VALUE									
TURBIDITY JT/NTU										
VELOCITY OF FLOW M/SEC										
(I) CURRENT METER										
(II) FLOAL										
(III) CHEMICAL										
TOTAL KJELDAHAL NITROGEN MG/L										
(I) TITRATION										
(II) NESSELERIZATION										
HARDNESS AS CaCO ₃ MG/L										
TOTAL COLIFORM MPN/100 ML										
TOTAL DISSOLVED SOLID MG/L										
ARSENIC, μg/L										

MICRO POLLUTANT (WATER)

PARAMETERS	1	3	3	0
CADMIUM, μg/L				
COPPER, μg/L				
CHROMIUM (TOTAL), μg/L				
NICKEL, μg/L				
ZINC, μg/L				
MERCURY, μg/L				
IRON (TOTAL), μg/L				
LEAD, μg/L				
BHC (TOTAL), μg/L				
DDT (TOTAL), μg/L				
ENDOSULPHAN, μg/L				
ELDRINE, μg/L				
CARBAMATE, μg/L				
2-4D, μg/L				
MELATHION, μg/L				
PARATHION, μg/L				
PHYSICO-CHEMICAL PARAMETERS	VALUE			
FIXED DISSOLVED SOLID MG/L				
AMMONIA NITROGEN MG/L				
(I) COLOURIMETRIC MG/L				
(II) DISTILLATION TITRATION MG/L				
BORAN DISSOLVED MG/L				
PHOSPHATE MG/L				
NITRATE (NO ₃) MG/L				
PHENOLPHTHALEIN ALKALINITY MG/L				
TOTAL SUSPENDED SOLID MG/L				
POTASSIUM MG/L				
FLUORIDE MG/L				
ARSENIC, μg/L				
CADMIUM, μg/L				
COPPER, μg/L				

MICRO POLLUTANT (SEDIMENT)

PARAMETERS	VALUE
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
CYANIDE, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT							STATION	: Bore well water in the Premises of Prakriti Industries, Rawabhata, Raipur		
	1	2	3	4	5	6	7				
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	5	0	1	1	1	1	4	0	0	
3. WEATHER	Cloudy							√Clear	Windy	Raining	
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm							√Clear	> 100 cm	Flood	
5. COLOUR & INTENSITY	√Clear							Turbid	Green	Brown	
6. ODOUR	√None							fishy	H ₂ S	Other	
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None							melon	Moderate	High	
8. HUMAN ACTIVITIES AROUND STATION	Cattle							Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat	
9. LOCATION DETAIL	ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)										

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	4	0
pH	7	7	4
CONDUCTIVITY µS/CM	5	6	2
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	4	6
NITROGEN (NO ₂) MG/L	1	1	1
DISSOLVED OXYGEN MG/L	0	4	
BOD MG/L	0	6	
COD MG/L	7	9	2
CHLORIDE MG/L			
(I) ARGENTOMETRIC	2	8	0
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMATRIC			
(II) TURBIDITY MATRIC	2	4	0
SODIUM MG/L	2	1	0
CALCIUM as CaCO ₃ MG/L	4	3	2
MAGNESIUM as CaCO ₃ MG/L	1	0	2
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

PHYSICO-CHEMICAL PARAMETERS VALUE

TURBIDITY JT/NTU	1	1	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL JELDHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION			
HARDNESS AS CaCO ₃ MG/L	1	5	0
TOTAL COLIFORM MPN/100 ML	2	0	
TOTAL DISSOLVED SOLID MG/L	3	6	4
ARSENIC, µg/L			

MICRO POLLUTANT (WATER) VALUE

CADMIUM, µg/L			
COPPER, µg/L			
CHROMIUM (TOTAL), µg/L			
NICKEL, µg/L			
ZINC, µg/L			
MERCURY, µg/L			
IRON (TOTAL), µg/L			
LEAD, µg/L			
BHC (TOTAL), µg/L			
DDT (TOTAL), µg/L			
ENDOSULPHAN, µg/L			
DIELDRIN, µg/L			
ELDRINE, µg/L			
CARBAMATE, µg/L			
2-4D, µg/L			
MELATHION, µg/L			
PARATHION, µg/L			

PHYSICO-CHEMICAL PARAMETERS VALUE

FIXED DISSOLVED SOLID MG/L	1	5	8	0
AMMONIA NITROGEN MG/L				
(I) COLOURIMETRIC MG/L				
(II) DISTILLATION TITRATION MG/L				
BORON DISSOLVED MG/L				
PHOSPHATE MG/L	0	4		
NITRATE MG/L				
PHENOLPHTHALEIN ALKALINITY MG/L				
TOTAL SUSPENDED SOLID MG/L	1	4	0	
POTASSIUM MG/L	8	0		
FLUORIDE MG/L	0	1	4	
ARSENIC, µg/L				
CADMIUM, µg/L				
COPPER, µg/L				
CHROMIUM (TOTAL), µg/L				

MICRO POLLUTANT (SEDIMENT) VALUE

NICKEL, µg/L			
ZINC, µg/L			
MERCURY, µg/L			
IRON (TOTAL), µg/L			
CYANIDE, µg/L			
BHC (TOTAL), µg/L			
DDT (TOTAL), µg/L			
ENDOSULPHAN, µg/L			
DIELDRIN, µg/L			
ELDRINE, µg/L			
CARBAMATE, µg/L			
2-4D, µg/L			
MELATHION, µg/L			
PARATHION, µg/L			

BIO MONITORING VALUE

SAPROBILITY			
DIVERSITY INDEX			
P/R RATIO			

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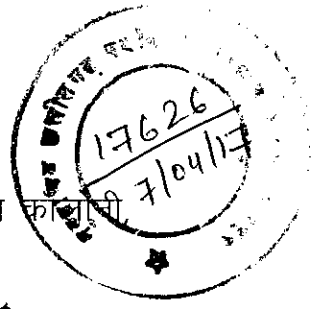
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क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल

कबीर नगर ब्यवसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कार्यालय,
कबीर नगर, रायपुर (छ.ग.)



कमांक 487/वेज्ञा/क्षेका/छ.प.सं.मं/2017 रायपुर दिनांक 30/3/2017

प्रति,

सदस्य सचिव,

छ.ग. पर्यावरण संरक्षण मंडल,

मुख्यालय, नया रायपुर (छ.ग.)

विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनों की विश्लेषण रिपोर्ट माह फरवरी 2017.
महोदय,

उपरोक्त विषयांतर्गत माह फरवरी 2017 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल स्रोतों के जल नमूनों का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

क्र.	जल नमूने का विवरण	स्टेशन क.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

क्षेत्रीय अधिकारी

क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

पृ.क. /वेज्ञा/क्षेका/छ.प.सं.मं/2017 रायपुर दिनांक / /2017

प्रतिलिपि :-

- श्री आर.सी. त्रिवेदी, अतिरिक्त निदेशक (PAMS Division), केन्द्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, पूर्वी अर्जुन नगर नई दिल्ली - 110032 की ओर निर्देशानुसार सूचनार्थ प्रेषित।
आंचलिक अधिकारी, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, आंचलिक कार्यालय (मध्य) तृतीय तल सहकार भवन नॉर्थ टी.टी. नगर मीपाल की ओर सूचनार्थ प्रेषित।

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

CE(I/C) / ACE(R/L) / SE(B/M/S) / EE / CC / SO(A/C) / SO-III
MEMBER SECRETARY

5.6.17

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	0	9	9	MINDAT / GLOWDAT					
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	8	0	2	1	7	1	5	1	0
3. WEATHER	Cloudy	√Clear	√Clear	Windy	Raining	STATION : RIVER MAHANADI AT RAJIM				
4. APPROX. DEPTH OF MAIN STREAM	√< 50 cm	50-100 cm	>100 cm	Green	Flood	NEAR ROAD BRIDGE				
5. COLOR & INTENSITY	√Clear	Turbid	fishy	H ₂ S	Other	TYPE : RIVER				
6. ODOUR	√None	√None	Moderate	Forming	√Other	COMPLETED BY : S.K.Khanna (Lab Asst. Grade II)				
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle	√U/s of town or Industrial area	D/s of Town or Industrial area	High	Other	VERIFIED BY : Scientist				
8. HUMAN ACTIVITIES AROUND STATION						AGENCY : REGIONAL OFFICE CHHATTISGARH				
9. LOCATION DETAIL						ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)				

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	29	0
pH	7.8	6
CONDUCTIVITY μS/CM	26	20
ALKALINITY MG/L (TOTAL)		
(I) ELECTROMETRIC		
(II) VISUAL TITRATION	11	40
NITROGEN (NO ₃) MG/L	1	2
DISSOLVED OXYGEN MG/L	6	8
BOD MG/L	2	6
COD MG/L	1	9
CHLORIDE MG/L		
(I) ARGENTOMETRIC	3	4
(II) MERCURIMETRIC		
SULPHATE MG/L		
(I) GRAVIMETRIC		
(II) TURBIDITY METRIC	1	3
SODIUM MG/L	1	0
CALCIUM as CaCO ₃ MG/L	2	7
MAGNESIUM as CaCO ₃ MG/L	7	8
FECAL COLIFORM MPN/100 ML		
INSTANTANEOUS DISCHARGE M ³ /S		

PHYSICO-CHEMICAL PARAMETERS VALUE

TURBIDITY JT/UNTU	2	2	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION	1	0	0
HARDNESS AS CaCO ₃ MG/L	1	1	0
TOTAL COLIFORM MPN/100NL	1	3	4
TOTAL DISSOLVED SOLID MG/L	1	3	4
ARSENIC, μg/L			

MICRO POLLUTANT (WATER) VALUE

CADMIUM, μg/L			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/L			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), μg/L			
LEAD, μg/L			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			

PHYSICO-CHEMICAL PARAMETERS VALUE

FIXED DISSOLVED SOLID MG/L	8	6	0
AMMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L			
PHOSPHATE MG/L	1	2	
NITRATE (NO ₃) MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	3	4	0
POTASSIUM MG/L	6	0	
FLUORIDE MG/L	0	2	4
ARSENIC, μg/L			
CADMIUM, μg/KG			

MICRO POLLUTANT (SEDIMENT) VALUE

COPPER, μg/L			
CHROMIUM (TOTAL), μg/KG			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), MG/KG			
LEAD, μg/KG			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			

BIO MONITORING VALUE

SAPROBITY			
DIVERSITY INDEX			
P/R RATIO			

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Billing Pro-forma for MINARS for the Month of February 2017

Station Name	Station Code	Monitoring Frequency	pH	Conductivity	Alkalinity	Nitrite (NO ₂)	Nitrate (NO ₃)	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coli form	TDS	FDS	TSS	Phosphate	Temp	NH ₃	Field Observation	Fluoride	Sodium	Potassium	Copper	Chromium	Nickel	Iron	Lead	Boron		
River Mahanadi at Rajim	1099	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
River Mahanadi at Rudri dam Dhamtari	1264	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Kharoon at Bhatagaon	1265	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Sheonath at Simga	1266	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Mahanadi at Arang	1852	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Mahanadi at Sihawa Dhamtari	1851	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Kharoon at Bendi	1853	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Bore well Rawabhata Raipur	1621	HA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Bore well Tatibandh Raipur	1620	HA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Total Sample			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Rate in Rs			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	45	135	135	105	150	75	75		
Amount			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	45	135	135	105	150	75	75		

Total Analysis Charges Rs.	1500=00
Sampling Charges @ Rs. 2200× per Sample	2200=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200× per Sample	200=00
Total Amount Rs.	3900=00

Rs. Three Thousand Nine Hundred Only

Analyzed by 


Chemist


Scientist


Regional Officer



क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल

कबीर नगर व्यवसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 636/वैज्ञा/क्षेका/छ.प.सं.मं/2017 रायपुर दिनांक 27/4/2017

प्रति,

सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मंडल,
मुख्यालय, नया रायपुर (छ.ग.)



विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनों की विश्लेषण रिपोर्ट माह मार्च 2017.
महोदय,

उपरोक्त विषयांतर्गत माह मार्च 2017 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल
स्रोतों के जल नमूनों का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन
संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

क्र.	जल नमूने का विवरण	स्टेशन क्र.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

CE(MO)/ACE(R/L)
SE(B/M/S)/EE/CC
PRO/SO(A/c)/Stf.O/SO-I

MEMBER SECRETARY

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

पृ.क्र. वैज्ञा/क्षेका/छ.प.सं.मं/2017 रायपुर दिनांक / /2017

प्रतिलिपि :-

- 1 श्री आर.सी. त्रिवेदी, अतिरिक्त निदेशक (PAMS Division), केन्द्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, पूर्वी अर्जुन नगर नई दिल्ली - 110032 की ओर निर्देशानुसार सूचनार्थ प्रेषित।
- 2 आंचलिक अधिकारी, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, आंचलिक कार्यालय (मध्य) तृतीय तल सहकार भवन नॉर्थ टी.टी. नगर भोपाल की ओर सूचनार्थ प्रेषित।

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINAR/S/GEMS

STATION CODE	1	0	9	9					MINDAT / GLOWDAT STATION	RIVER MAHANADI AT RAJIM NEAR ROAD BRIDGE
DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	8	0	3	1	7	1	1	3	0
WEATHER	Cloudy	√Clear	√Clear	Windy						TYPE : RIVER
APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	>100 cm	Flood						COMPLETED BY : S.K.Khanna (Lab Asst. Grade II)
COLOR & INTENSITY	√Clear	Turbid	Green	Brown						VERIFIED BY : Scientist
ODOUR	√None	fisty	H ₂ S	Other						AGENCY : REGIONAL OFFICE CHHATTISGARH
VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	√None	Moderate	High	Other						ENVIRONMENT CONSERVATION BOARD RAIPUR (CG)
HUMAN ACTIVITIES AROUND STATION	Cattle	√Us of town or Industrial area		melon Forming Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat				
LOCATION DETAIL										

PHYSICO-CHEMICAL PARAMETERS **VALUE** **MICRO POLLUTANT (WATER)** **VALUE** **MICRO POLLUTANT (SEDIMENT)** **VALUE**

TEMPERATURE °C	3	1	0	CADMIUM, µg/L		COPPER, µg/L				
pH	7	2	8	COPPER, µg/L		CHROMIUM (TOTAL), µg/KG				
CONDUCTIVITY µS/CM	2	5	8	CHROMIUM (TOTAL), µg/L		NICKEL, µg/L				
ALKALINITY MGL (TOTAL)				NICKEL, µg/L		ZINC, µg/L				
(I) ELECTROMETRIC				ZINC, µg/L		MERCURY, µg/L				
(II) VISUAL TITRATION	1	2	0	MERCURY, µg/L		IRON (TOTAL), MG/KG				
NITROGEN (NO ₂) MGL	1	2	0	IRON (TOTAL), µg/L		LEAD, µg/KG				
DISSOLVED OXYGEN MGL	6	4	4	LEAD, µg/L		BHC (TOTAL), µg/L				
BOD MGL	2	0	3	DDT (TOTAL), µg/L		DDT (TOTAL), µg/L				
COD MGL	2	0	6	ENDOSULPHAN, µg/L		ENDOSULPHAN, µg/L				
CHLORIDE MGL	2	8	0	DDT (TOTAL), µg/L		DIELDRIN, µg/L				
(I) ARGENTOMETRIC				ENDOSULPHAN, µg/L		DIELDRIN, µg/L				
(II) MERCURIMETRIC				ELDRINE, µg/L		ELDRINE, µg/L				
SULPHATE MGL				ELDRINE, µg/L		CARBAMATE, µg/L				
(I) GRAVIMETRIC				CARBAMATE, µg/L		2-4D, µg/L				
(II) TURBIDITY METRIC	1	3	0	MELATHION, µg/L		MELATHION, µg/L				
SODIUM MGL	1	2	0	PARATHION, µg/L		PARATHION, µg/L				
CALCIUM as CaCO ₃ MGL	2	7	2							
MAGNESIUM as CaCO ₃ MGL	7	8								
FECAL COLIFORM MPN/100 ML										
INSTANTANEOUS DISCHARGE M ³ /S										
PHYSICO-CHEMICAL PARAMETERS	VALUE									
TURBIDITY JT/NTU	2	8	0	PHYSICO-CHEMICAL PARAMETERS	VALUE					
VELOCITY OF FLOW M/SEC				FIXED DISSOLVED SOLID MGL	8	8	0	BIO MONITORING	VALUE	
(I) CURRENT METER				AMMONIA NITROGEN MGL				SAPROBITY		
(II) FIOAL				(I) COLOURIMETRIC MGL				DIVERSITY INDEX		
(III) CHEMICAL				(II) DISTILLATION TITRATION MGL				P/R RATIO		
TOTAL KIJELDAHAL NITROGEN MGL				BORAN DISSOLVED MGL	1	2				
(I) TITRATION				PHOSPHATE MGL						
(II) NESSELERIZATION				NITRATE (NO ₃) MGL						
HARDNESS AS CaCO ₃ MGL	1	0	0	PHENOLPHTHALEIN ALKALINITY MGL						
TOTAL COLIFORM MPN/100ML	2	4	0	TOTAL SUSPENDED SOLID MGL	3	0	0			
TOTAL DISSOLVED SOLID MGL	1	3	8	POTASSIUM MGL	6	0				
				FLUORIDE MGL	0	3	4			
				ARSENIC, µg/L						
				CADMIUM, µg/KG						

8

John

John

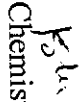
Billing Pro-forma for MINARS for the Month of March 2017

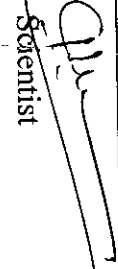
Station Name	Station Code	Monitoring Frequency	pH	Conductivity	Alkalinity	Nitrite (NO ₂)	Nitrate (NO ₃)	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coli form	TDS	FDS	TSS	Phosphate	Temp	NH ₃	Field Observation	Fluoride	Sodium	Potassium	copper	Chromium	Nickel	Iron	Lead	Boron	
River Mahanadi at Rajim	1099	M	1	1	1	1	*	1	1	1	1	1	1	1	*	1	1	1	1	1	1	1	*	1	1	1	*	*	*	*	*	*	*	*
River Mahanadi at Rudi dam Dhamtari	1264	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Kharoon at Bhatagaon	1265	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Sheonath at Singa	1266	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Mahanadi at Arang	1852	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Mahanadi at Sihawa Dhamtari	1851	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Kharoon at Bendri	1853	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bore well Rawabhata Raipur	1621	HA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bore well Taibandh Raipur	1620	HA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total Sample Rate in Rs			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	75	15	45	200	75	45	45	135	135	105	150	75	
Amount			45	45	45	45	45	150	115	45	75	45	45	45	45	45	75	75	75	75	75	75	15	45	200	75	45	45	135	135	105	150	75	

Total Analysis Charges Rs.	1500=00
Sampling Charges @ Rs. 2200× per Sample	2200=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200× per Sample	200=00
Total Amount Rs.	3900=00

Rs. Three Thousand Nine Hundred Only

Analyzed by 


Chemist


Scientist


Regional Officer



क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल

कबीर नगर व्यावसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

✓ क्रमांक 1237/क्षेका/वैज्ञा/छ.प.सं.मं/2017 रायपुर दिनांक 8/6/2017
प्रति,

सदस्य सचिव महोदय,
छ.ग. पर्यावरण संरक्षण मंडल,
मंडल मुख्यालय, नया रायपुर (छ.ग.)

2362
28/6/17

विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनों की विश्लेषण रिपोर्ट माह अप्रैल 2017.
महोदय,

उपरोक्त विषयांतर्गत माह अप्रैल 2017 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल स्रोतों के जल नमूनों का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

क्र.	जल नमूने का विवरण	स्टेशन क्र.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।
02	महानदी रूद्री जलाशय, ग्राम रूद्री (धमतरी जलाशय के उपरी भाग)	1264	रिपोर्ट संलग्न है।
03	खारून नदी भाटागांव, रायपुर (वाटर सप्लाई इन्टेकवेल के समीप)	1265	रिपोर्ट संलग्न है।
04	शिवनाथ नदी सिमगा (सिमगा-बेमेतरा रोड ब्रिज के समीप)	1266	रिपोर्ट संलग्न है।
05	खारून नदी बेन्द्री (वाटर सप्लाई इन्टेकवेल के समीप)	1853	रिपोर्ट संलग्न है।
06	महानदी सिहावा (उदगम स्थल)	1851	रिपोर्ट संलग्न है।
07	महानदी आरंग (रोड ब्रिज के समीप)	1852	रिपोर्ट संलग्न है।
08	बोरवेल न्यू एच.आई.जी.-11, टाटीबंध, रायपुर	1620	रिपोर्ट संलग्न है।
09	बोरवेल मेसर्स प्रकृति इण्डस्ट्रीज, रावांभाठा, रायपुर	1621	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

क्षेत्रीय अधिकारी

क्षेत्रीय कार्यालय, रायपुर (छ.ग.)
/क्षेका/वैज्ञा/छ.प.सं.मं/2017 रायपुर, दिनांक 8/6/2017

प्रतिलिपि :-

- 1 श्री आर.सी. त्रिवेदी, अतिरिक्त निदेशक (PAMS Division), केन्द्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, पूर्वी अर्जुन नगर नई दिल्ली - 110032 की ओर निर्देशानुसार सूचनार्थ प्रेषित।
- 2 आंचलिक अधिकारी, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, आंचलिक कार्यालय (मध्य) तृतीय तल सहकार भवन नॉर्थ टी.टी. नगर भोपाल की ओर सूचनार्थ प्रेषित।

CE(10)/ADE(R/L)
SE(B/M/S)/EE/CC
PRO/SO(A/C)/SO/O/SO/III

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

MEMBER SECRETARY

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE		1	0	9	9	MINDAT / GLOWDAT						
1.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	3	0	4	1	7	1	1	6	1	0
2.	WEATHER	Cloudy		√Clear	Windy	Raining						
3.	APROX. DEPTH OF MAIN STREAM	< 50 cm	√Clear	Turbid	> 100 cm	Flood						
4.	COLOUR & INTENSITY	√None	fishy	H ₂ S	Moderate	Other						
5.	ODOUR	Cattle		√None	√melon Forming	High						
6.	VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√U/s of town or Industrial area		D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat							
7.	HUMAN ACTIVITIES AROUND STATION											
8.	LOCATION DETAIL	NEAR MAHANADI AT RAJIM										
9.		RIVER										
		K. C. Sahu (Chemist)										
		Scientist										
		REGIONAL OFFICE CHHATTISGARH										
		ENVIRONMENT CONSERVATION										
		BOARD RAIPUR (C G)										

PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)	VALUE	MICRO POLLUTANT (SEDIMENT)	VALUE
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TEMPERATURE °C	32.0	ARSENIC, µg/L		ARSENIC, µg/L	
pH	7.84	CADMIUM, µg/L		CADMIUM, µg/L	
CONDUCTIVITY µS/CM	2480	COPPER, µg/L		COPPER, µg/L	
ALKALINITY MG/L (TOTAL)		CHROMIUM (TOTAL), µg/L		CHROMIUM (TOTAL), µg/L	
(I) ELECTROMETRIC		NICKEL, µg/L		NICKEL, µg/L	
(II) VISUAL TITRATION	1230	ZINC, µg/L		ZINC, µg/L	
NITROGEN (NO ₂) MG/L	1.1	MERCURY, µg/L		MERCURY, µg/L	
DISSOLVED OXYGEN MG/L	6.2	IRON (TOTAL), µg/L		IRON (TOTAL), MG/KG	
BOD MG/L	2.8	LEAD, µg/L		LEAD, µg/KG	
CHLORIDE MG/L	196	BHC (TOTAL), µg/L		BHC (TOTAL), µg/L	
(I) ARGENTOMETRIC	300	DDT (TOTAL), µg/L		DDT (TOTAL), µg/L	
(II) MERCURIMATRIC		ENDOSULPHAN, µg/L		ENDOSULPHAN, µg/L	
SULPHATE MG/L		DIELDRIN, µg/L		DIELDRIN, µg/L	
(I) GRAVIMATRIC		ELDRINE, µg/L		ELDRINE, µg/L	
(II) TURBIDITY MATRIX	120	CARBAMATE, µg/L		CARBAMATE, µg/L	
SODIUM MG/L	100	2-4D, µg/L		2-4D, µg/L	
CALCIUM as CaCO ₃ MG/L	264	MELATHION, µg/L		MELATHION, µg/L	
MAGNESIUM as CaCO ₃ MG/L	682	PARATHION, µg/L		PARATHION, µg/L	
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M ³ /S					
PHYSICO-CHEMICAL PARAMETERS	VALUE				VALUE
TURBIDITY JT/NTU	240				
VELOCITY OF FLOW M/SEC					
(I) CURRENT METER					
(II) FLOAL					
(III) CHEMICAL					
TOTAL KJELDAHAL NITROGEN MG/L					
(I) TITRATION					
(II) NESSELERIZATION	940				
HARDNESS AS CaCO ₃ MG/L	1700				
TOTAL COLIFORM MPN/100ML	1320				
TOTAL DISSOLVED SOLID MG/L					

PHYSICO-CHEMICAL PARAMETERS	VALUE				VALUE
FIXED DISSOLVED SOLID MG/L	860				
AMMONIA NITROGEN MG/L					
(I) COLOURIMETRIC MG/L					
(II) DISTILLATION TITRATION MG/L					
BORAN DISSOLVED MG/L					
PHOSPHATE MG/L	11				
NITRATE (NO ₂) MG/L					
PHENOLPHTHALEIN ALKALINITY MG/L	220				
TOTAL SUSPENDED SOLID MG/L	800				
POTASSIUM MG/L	032				
FLUORIDE MG/L					
BIO MONITORING					
SAPROBITY					
DIVERSITY INDX					
P/R RATIO					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT				
	1	2	6	4	5
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	7	0	4	1
3. WEATHER	Cloudy	√Clear	Windy	1	4
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	> 100 cm	1	4
5. COLOUR & INTENSITY	√Clear	Turbid	Green	1	4
6. ODOUR	√None	fishy	H ₂ S	1	4
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	√None	None	Moderate	1	4
8. HUMAN ACTIVITIES AROUND STATION	Cattle	melon Forming	D/s of Town or Industrial area	1	4
9. LOCATION DETAIL	U/s of town or Industrial area	Pilgrim Centre / Bathing Ghat			

√ MINARS/GEMS

PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)					MICRO POLLUTANT (SEDIMENT)							
		3	4	0	4	5	1	2	3	4	5			
TEMPERATURE °C	34.0													
pH	7.56													
CONDUCTIVITY μS/CM	248													
ALKALINITY MG/L (TOTAL)														
(I) ELECTROMETRIC														
(II) VISUAL TITRATION	108													
NITROGEN (NO ₃) MG/L	10													
DISSOLVED OXYGEN MG/L	6.2													
BOD MG/L	2.3													
COD MG/L	11.64													
CHLORIDE MG/L														
(I) ARGENTOMETRIC	26													
(II) MERCURIMETRIC														
SULPHATE MG/L														
(I) GRAVIMETRIC														
(II) TURBIDITY MATRIC	12													
SODIUM MG/L	11													
CALCIUM as CaCO ₃ MG/L	31													
MAGNESIUM as CaCO ₃ MG/L	78													
FECAL COLIFORM MPN/100 ML														
INSTANTANEOUS DISCHARGE M ³ /S														

PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)					MICRO POLLUTANT (SEDIMENT)							
		1	2	3	4	5	1	2	3	4	5			
COPPER, μg/L														
CHROMIUM (TOTAL), μg/L														
NICKEL, μg/L														
ZINC, μg/L														
MERCURY, μg/L														
IRON (TOTAL), MG/KG														
LEAD, μg/KG														
BHC (TOTAL), μg/L														
DDT (TOTAL), μg/L														
ENDOSULPHAN, μg/L														
DIELDRIN, μg/L														
ELDRINE, μg/L														
CARBAMATE, μg/L														
2-4D, μg/L														
MELATHION, μg/L														
PARATHION, μg/L														
PHYSICO-CHEMICAL PARAMETERS														
FIXED DISSOLVED SOLID MG/L	860													
AMMONIA NITROGEN MG/L														
(I) COLOURIMETRIC MG/L														
(II) DISTILLATION TITRATION MG/L														
BORAN DISSOLVED MG/L														
PHOSPHATE MG/L	11													
NITRATE (NO ₃) MG/L														
PHENOLPHTHALEIN ALKALINITY MG/L														
TOTAL SUSPENDED SOLID MG/L	220													
POTASSIUM MG/L	70													
FLUORIDE MG/L	06													
ARSENIC, μg/L														
CADMIUM, μg/KG														
COPPER, μg/L														
CHROMIUM (TOTAL), μg/KG														
NICKEL, μg/L														

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE		1	2	6	5	MINDAT / GLOWDAT						
1.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	8	0	4	1	7	1	5	0	0	STATION : RIVER KHAROON AT BHATAGAON
3.	WEATHER	Cloudy	√Clear	Windy	√Clear	Windy	√Clear	Raining	√Clear	Windy	√Clear	U/S Near w/s intake well
4.	APROX. DEPTH OF MAIN STREAM	< 50 cm	> 100 cm	Turbid	Green	Green	√Clear	Brown	√Clear	Turbid	fishy	COMPLETED BY : S.K.Khanna (Lab Asst. Grade II)
5.	COLOUR & INTENSITY	√Clear	√None	fishy	H ₂ S	Moderate	√None	High	√None	High	Other	VERIFIED BY : Scientist
6.	ODOUR	√None	√None	fishy	H ₂ S	Moderate	√None	High	√None	High	Other	AGENCY : REGIONAL OFFICE CHHATTISGARH ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)
7.	VISIBLE EFFLUENT DISCHARGE IN PROXIMIT											
8.	HUMAN ACTIVITIES AROUND STATION											
9.	LOCATION DETAIL											

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	3	1	0
pH	7	8	4
CONDUCTIVITY μS/CM	2	8	6
ALKALINITY MG/L (TOTAL)			
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	1	4
NITROGEN (NO ₃) MG/L	1	2	
DISSOLVED OXYGEN MG/L	6	8	
BOD MG/L	3	3	
COD MG/L	1	6	4
CHLORIDE MG/L			
(I) ARGENTOMETRIC	3	0	0
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMATRIC			
(II) TURBIDITY MATRIC	1	3	0
SODIUM MG/L	1	2	0
CALCIUM as CaCO ₃ MG/L	3	1	2
MAGNESIUM as CaCO ₃ MG/L	7	8	
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ S			

PHYSICO-CHEMICAL PARAMETERS VALUE

TURBIDITY JT/UNTU	1	8	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION			
HARDNESS AS CaCO ₃ MG/L	1	1	0
TOTAL COLIFORM MPN/100 ML	1	7	0
TOTAL DISSOLVED SOLID MG/L	1	5	2
ARSENIC, μg/L			

MICRO POLLUTANT (WATER) VALUE

CADMIUM, μg/L			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/L			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), μg/L			
LEAD, μg/L			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
ELDRIENE, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			

PHYSICO-CHEMICAL PARAMETERS VALUE

FIXED DISSOLVED SOLID MG/L	8	6	0
AMMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L			
PHOSPHATE MG/L	1	2	
NITRATE MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	2	0	0
POTASSIUM MG/L	5	0	
FLUORIDE MG/L	0	2	2
ARSENIC, μg/L			
CADMIUM, μg/KG			
COPPER, μg/L			

MICRO POLLUTANT (SEDIMENT) VALUE

CHROMIUM (TOTAL), μg/KG			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), Mg/KG			
LEAD, μg/KG			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
ELDRIENE, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			

BIO MONITORING VALUE

SAPROBITY			
DIVERSITY INDAX			
P/R RATIO			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√MINARS/GEMS

STATION CODE	MINDAT / GLOWDAT						
	1	2	6	6	1	3	0
1. STATION CODE	1	7	0	4	1	7	0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)							
3. WEATHER	Cloudy	√Clear	Windy	>100 cm	Raining	Flood	
4. APROX. DEPTH OF MAIN STREAM	< 50 cm	Turbid	fishy	H ₂ S	Moderate	High	
5. COLOUR & INTENSITY	√Clear	√None	melon	Forming	√Other		
6. ODOUR							
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT							
8. HUMAN ACTIVITIES AROUND STATION	Cattle	U/s of town or Industrial area	D/s of Town or Industrial area				Pilgrim Centre / √Bathing Chat
9. LOCATION DETAIL							
	: RIVER SHEONATH AT SIMGA						
	: NEAR SIMGA - BEMETARA ROAD BRIDGE						
	: RIVER						
	: K. C. Sahu (Chemist)						
	: Scientist						
	: REGIONAL OFFICE, CHHATTISGARH						
	: ENVIRONMENT CONSERVATION						
	: BOARD RAIPUR (C G)						

PHYSICO-CHEMICAL PARAMETERS

PARAMETERS	VALUE
TEMPERATURE °C	31.6
pH	7.74
CONDUCTIVITY μS/CM	284
ALKALINITY MG/L (TOTAL)	0
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	118
NITROGEN (NO ₂) MG/L	12
DISSOLVED OXYGEN MG/L	62
BOD MG/L	34
COD MG/L	24
CHLORIDE MG/L	64
(I) ARGENTOMETRIC	34
(II) MERCURIMETRIC	0
SULPHATE MG/L	
(I) GRAVIMETRIC	
(II) TURBIDITY MATRIX	14
SODIUM MG/L	11
CALCIUM as CaCO ₃ MG/L	29
MAGNESIUM as CaCO ₃ MG/L	829
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JT/UNTU	
VELOCITY OF FLOW M/SEC	20
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) NESSELERIZATION	
HARDNESS AS CaCO ₃ MG/L	108
TOTAL COLIFORM MPN/100ML	240
TOTAL DISSOLVED SOLID MG/L	148

MICRO POLLUTANT (WATER)

PARAMETERS	VALUE
ARSENIC, μg/L	
CADMIUM, μg/L	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	970
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	12
PHOSPHATE MG/L	
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	260
POTASSIUM MG/L	60
FLUORIDE MG/L	08
ARSENIC, μg/L	
CADMIUM, μg/L	
COPPER, μg/L	

MICRO POLLUTANT (SEDIMENT)

PARAMETERS	VALUE
CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), MG/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE		1	8	5	3	MINDAT / GLOWDAT							
2.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	8	0	4	1	7	1	5	2	0	STATION	: RIVER KHARON AT BENDRI VILLAGE
3.	WEATHER	Cloudy				√Clear	Windy	√>100 cm	Raining	U/s near CSIDC w/s intake well			
4.	APPROX. DEPTH OF MAIN STREAM	<50 cm				50-100 cm	√>100 cm	Flood	TYPE				: RIVER
5.	COLOUR & INTENSITY	√Clear				Turbid	Green	Brown	COMPLETED BY				: S.K.Khanna (Lab Asst. Grade II)
6.	ODOUR	√None				Fishy	H ₂ S	Other	VERIFIED BY				: Scientist
7.	VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle				√None	Moderate	High	AGENCY				: REGIONAL OFFICE CHHATTISGARH
8.	HUMAN ACTIVITIES AROUND STATION	√U/s of town or Industrial area				Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat	ENVIRONMENT CONSERVATION				: BOARD RAIPUR (C G)
9.	LOCATION DETAIL												

PHYSICO-CHEMICAL PARAMETERS

MICRO POLLUTANT (WATER)

MICRO POLLUTANT (SEDIMENT)

TEMPERATURE °C	3	3	0
pH	7	4	4
CONDUCTIVITY μS/CM	2	4	8
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	0	6
NITROGEN (NO ₃) MG/L	1	1	
DISSOLVED OXYGEN MG/L	5	6	
BOD MG/L	2	7	
COD MG/L	2	4	4
CHLORIDE MG/L			6
(I) ARGENTOMETRIC	3	4	0
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMATRIC			
(II) TURBIDITY MATRIC	1	4	0
SODIUM MG/L	1	0	6
CALCIUM as CaCO ₃ MG/L	2	9	2
MAGNESIUM as CaCO ₃ MG/L	7	3	1
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS			
TURBIDITY JT/UNTU	2	8	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) Nesslerization			
HARDNESS AS CaCO ₃ MG/L	1	0	3
TOTAL COLIFORM MPN/100 ML	1	7	0
TOTAL DISSOLVED SOLID MG/L	1	4	8

ARSENIC, μg/L	VALUE
ARSENIC, μg/L	
CADMIUM, μg/L	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
PHYSICO-CHEMICAL PARAMETERS	
FIXED DISSOLVED SOLID MG/L	9
AMMONIA NITROGEN MG/L	8
(I) COLOURIMETRIC MG/L	0
(II) DISTILLATION TITRATION MG/L	
BORON DISSOLVED MG/L	
PHOSPHATE MG/L	1
NITRATE (NO ₃) MG/L	1
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	3
POTASSIUM MG/L	2
FLUORIDE MG/L	0

ARSENIC, μg/L	VALUE
ARSENIC, μg/L	
CADMIUM, μg/KG	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), MG/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE		1	8	5	1	MINDAT / GLOWDAT						
2.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	7	0	4	1	7	1	3	0	0	STATION : RIVER MAHANADI AT SIHAWA
3.	WEATHER	Cloudy		√Clear	Windy	√>100 cm	√>100 cm	Raining				ORIGIN POINT OF RIVER MAHANADI
4.	APROX. DEPTH OF MAIN STREAM	< 50 cm		Turbid	Green	H ₂ S	Moderate	Flood				TYPE : RIVER
5.	COLOUR & INTENSITY	√Clear		fishy	None	Forming	High	Brown				COMPLETED BY : K. C. Sahu (Chemist)
6.	ODOUR	√None		Industrial area	Industrial area	Other	Other	High				VERIFIED BY : Scientist
7.	VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle		D/s of town or Industrial area	D/s of town or Industrial area	√Other	Pilgrim Centre / Bathing Ghat					AGENCY : REGIONAL OFFICE CHHATTISGARH
8.	HUMAN ACTIVITIES AROUND STATION	√U/s of town or Industrial area										ENVIRONMENT CONSERVATION
9.	LOCATION DETAIL											BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS

	VALUE
TEMPERATURE °C	34.0
pH	7.42
CONDUCTIVITY μS/CM	234.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	104.0
NITROGEN (NO ₃) MG/L	1.1
DISSOLVED OXYGEN MG/L	5.4
BOD MG/L	3.5
COD MG/L	8.86
CHLORIDE MG/L	
(I) ARGENTOMETRIC	28.0
(II) MERCURIMATRIC	
SULPHATE MG/L	
(I) GRAVIMATRIC	
(II) TURBIDITY MATRIC	11.0
SODIUM MG/L	8.0
CALCIUM as CaCO ₃ MG/L	27.2
MAGNESIUM as CaCO ₃ MG/L	7.31
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JT/NTU	14.0
VELOCITY OF FLOW M/SEC	
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) Nesslerization	
HARDNESS AS CaCO ₃ MG/L	98.0
TOTAL COLIFORM MPN/100ML	170.0
TOTAL DISSOLVED SOLID MG/L	153.0

MICRO POLLUTANT (WATER)

	VALUE
ARSENIC, μg/L	
CADMIUM, μg/L	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	84.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	
PHOSPHATE MG/L	1.2
NITRATE (NO ₃) MG/L	
PHENOL PHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	20.0
POTASSIUM MG/L	5.0
FLUORIDE MG/L	0.18
ARSENIC, μg/L	

MICRO POLLUTANT (SEDIMENT)

	VALUE
CADMIUM, μg/KG	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), MG/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	VALUE

	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT					
	1	8	5	2		
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	8	0	4	1	7
3. WEATHER	Cloudy	√Clear	Windy	1	5	0
4. APROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	> 100 cm			
5. COLOUR & INTENSITY	√Clear	Turbid	Green	Brown		
6. ODOUR	√None	fishy	H ₂ S	Other		
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT		√None	Moderate	High		
8. HUMAN ACTIVITIES AROUND STATION	Cattle			D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat	
9. LOCATION DETAIL	REGIONAL OFFICE CHHATTISGARH ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)					

PHYSICO-CHEMICAL PARAMETERS

	3	1	0
TEMPERATURE °C	7	8	4
pH	2	8	6
CONDUCTIVITY μS/CM			0
ALKALINITY MG/L (TOTAL)			
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	1	4
NITROGEN (NO ₂) MG/L	1	2	
DISSOLVED OXYGEN MG/L	6	8	
BOD MG/L	3	3	
COD MG/L	1	6	4
CHLORIDE MG/L			6
(I) ARGENTOMETRIC	3	0	0
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMATRIC	1	3	0
(II) TURBIDITY MATRIC	1	2	0
SODIUM MG/L	3	1	2
CALCIUM as CaCO ₃ MG/L	7	8	
MAGNESIUM as CaCO ₃ MG/L			
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

PHYSICO-CHEMICAL PARAMETERS

	1	8	0
TURBIDITY JTUNTU			
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) Nesslerization			
HARDNESS AS CaCO ₃ MG/L	1	1	0
TOTAL COLIFORM MPN/100ML	1	7	0
TOTAL DISSOLVED SOLID MG/L	1	5	2

MICRO POLLUTANT (WATER)

ARSENIC, μg/L			
CADMIUM, μg/L			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/L			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), μg/L			
LEAD, μg/L			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			

PHYSICO-CHEMICAL PARAMETERS

FIXED DISSOLVED SOLID MG/L	8	6	0
AMMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L			
PHOSPHATE MG/L	1	2	
NITRATE (NO ₃) MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	2	0	0
POTASSIUM MG/L	5	0	
FLUORIDE MG/L	0	2	2
ARSENIC, μg/L			

MICRO POLLUTANT (SEDIMENT)

CADMIUM, μg/KG			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/KG			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), Mg/KG			
LEAD, μg/KG			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			

BIO MONITORING

SAPROBITY			
DIVERSITY INDAX			
P/R RATIO			

8

Ken

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE		1	6	2	0	1	7	1	5	0	0	MINDAT / GLOWDAT	
1.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	9	0	4	1	7	1	5	0	0	STATION	: BORE WELL WATER
2.	WEATHER	Cloudy		√Clear	Windy	√>100 cm	Raining					STATION	: New H.I.G. II, Tatibandh, Raipur
3.	APPROX. DEPTH OF MAIN STREAM	<50 cm	√Clear	Turbid	fishy	√None	H ₂ S	Moderate				TYPE	: BORE WELL WATER
4.	COLOUR & INTENSITY	√None	melon	Forming	D/s of Town or Industrial area	Other					COMPLETED BY	: K.C.Sahu (Chemist)	
5.	ODOUR	√None	Industrial area	Industrial area	Industrial area	Other					VERIFIED BY	: Scientist	
6.	VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	Cattle	U/s of town or Industrial area	Industrial area	Industrial area	Other					AGENCY	: REGIONAL OFFICE CHHATTISGARH	
7.	HUMAN ACTIVITIES AROUND STATION										ENVIRONMENT	CONSERVATION	
8.	LOCATION DETAIL										BOARD	RAIPUR (C G)	
9.													

PHYSICO-CHEMICAL PARAMETERS

PARAMETERS	VALUE
TEMPERATURE °C	31.0
pH	7.64
CONDUCTIVITY μS/CM	522
ALKALINITY MG/L (TOTAL)	0
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	1.20
NITROGEN (NO ₂) MG/L	0.2
DISSOLVED OXYGEN MG/L	0.6
BOD MG/L	0.4
COD MG/L	7.84
CHLORIDE MG/L	
(I) ARGENTOMETRIC	3.0
(II) MERCURIMETRIC	
SULPHATE MG/L	
(I) GRAVIMETRIC	
(II) TURBIDITY MATRIC	2.0
SODIUM MG/L	1.8
CALCIUM as CaCO ₃ MG/L	3.9
MAGNESIUM as CaCO ₃ MG/L	8.78
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	

PHYSICO-CHEMICAL PARAMETERS

PARAMETERS	VALUE
TURBIDITY JTU/NTU	1.0
VELOCITY OF FLOW M/SEC	0
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) NESSELERIZATION	
HARDNESS AS CaCO ₃ MG/L	134
TOTAL COLIFORM MPN/100 ML	6.0
TOTAL DISSOLVED SOLID MG/L	340
ARSENIC, μg/L	

MICRO POLLUTANT (WATER)

PARAMETERS	VALUE
CADMIUM, μg/L	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	

PHYSICO-CHEMICAL PARAMETERS

PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	114
AMMONIA NITROGEN MG/L	0
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	0.3
PHOSPHATE MG/L	
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	160
POTASSIUM MG/L	8.0
FLUORIDE MG/L	0.2
ARSENIC, μg/L	
CADMIUM, μg/L	
COPPER, μg/L	

MICRO POLLUTANT (SEDIMENT)

PARAMETERS	VALUE
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
CYANIDE, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	

BIO MONITORING

PARAMETERS	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

Fsh

Chh

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT									
	1	2	3	4	5	6	7	8	9	10
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	5	0	4	1	7	1	1	3	0
3. WEATHER	Cloudy			√Clear	Windy	Raining				
4. APPROX. DEPTH OF MAIN STREAM	<50 cm	√Clear	Turbid	>100 cm	Green	Brown				
5. COLOUR & INTENSITY	√None	fishy	H ₂ S	Moderate	High	Other				
6. ODOUR	√None	melon	Forming	Other						
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY										
8. HUMAN ACTIVITIES AROUND STATION	Cattle			U/s of town or Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat				
9. LOCATION DETAIL										

: Bore well water in the Premises of Prakriti Industries, Rawabhata, Raipur

: BORE WELL WATER

: S.K.Khanna (Lab Asst. Grade II)

: Scientist

: REGIONAL OFFICE CHHATTISGARH

: ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE

PARAMETERS	3	2	1	0
TEMPERATURE °C	7	6	4	0
pH	5	4	8	0
CONDUCTIVITY μS/CM				
ALKALINITY MG/L (TOTAL)				
(I) ELECTROMETRIC				
(II) VISUAL TITRATION	1	3	8	0
NITROGEN (NO ₃) MG/L	1	1		
DISSOLVED OXYGEN MG/L	0	3		
BOD MG/L	0	5		
COD MG/L	7	8	4	
CHLORIDE MG/L				
(I) ARGENTOMETRIC	3	1	0	
(II) MERCURIMATRIC				
SULPHATE MG/L				
(I) GRAVIMATRIC				
(II) TURBIDITY MATRIC	2	2	0	
SODIUM MG/L	2	0	0	
CALCIUM as CaCO ₃ MG/L	4	1	6	
MAGNESIUM as CaCO ₃ MG/L	4	8	1	
FECAL COLIFORM MPN/100 ML				
INSTANTANEOUS DISCHARGE M ³ /S				
PHYSICO-CHEMICAL PARAMETERS	VALUE			
TURBIDITY JT/UNTU	1	2	0	
VELOCITY OF FLOW M/SEC				
(I) CURRENT METER				
(II) FLOAL				
(III) CHEMICAL				
(I) TITRATION				
(II) NITROGEN				
HARDNESS AS CaCO ₃ MG/L	1	4	8	0
TOTAL COLIFORM MPN/100 ML	4	0		
TOTAL DISSOLVED SOLID MG/L	3	5	4	0
ARSENIC, μg/L				

MICRO POLLUTANT (WATER) VALUE

PARAMETERS	1	4	0
CADMIUM, μg/L			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/L			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), μg/L			
LEAD, μg/L			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
FIXED DISSOLVED SOLID MG/L	1	4	0
AMMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORON DISSOLVED MG/L	0	4	
PHOSPHATE MG/L			
NITRATE MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	1	6	0
POTASSIUM MG/L	6	0	
FLUORIDE MG/L	0	1	2
ARSENIC, μg/L			
CADMIUM, μg/L			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/L			

MICRO POLLUTANT (SEDIMENT) VALUE

PARAMETERS	VALUE
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
CYANIDE, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

8

15/10

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Billing Pro-forma for MINARS for the Month of April 2017

Station Name	Station Code	Monitoring Frequency	pH	Conductivity	Alkalinity	Nitrite (NO ₂)	Nitrate (NO ₃)	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coli form	TDS	FDS	TSS	Phosphate	Temp	NH ₃	Field Observation	Fluoride	Sodium	Potassium	Copper	Chromium	Nickel	Iron	Lead	Boron
River Mahanadi at Rajim	1099	M	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	
River Mahanadi at Rudri dam Dhamtari	1264	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
River Kharoon at Bhatagaon	1265	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
River Sheonath at Simga	1266	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
River Mahanadi at Arang	1852	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
River Mahanadi at Sihawa Dhamtari	1851	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
River Kharoon at Bendri	1853	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
Bore well Rawabhata Raipur	1621	H/A	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
Bore well Tatibandh Raipur	1620	H/A	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
Total Sample			9	9	9	9	0	9	9	9	9	9	9	9	0	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0		
Rate in Rs			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	45	135	135	105	150	75	
Amount			405	405	405	405	-	405	1350	1035	405	675	405	405	-	405	675	675	675	675	675	135	-	1800	675	405	405	-	-	-	-	-	

Total Analysis Charges Rs.	13500=00
Sampling Charges @ Rs. 2200×9 per Sample	19800=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200×9 per Sample	1800=00
Total Amount Rs.	35100=00

Rs. Thirty Five Thousand One Hundred Only

Analyzed by

PKA
Chemist

AK
Scientist

[Signature]
Regional Officer



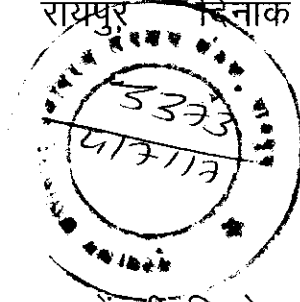
क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल
कबीर नगर व्यवसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 1688/वैज्ञा/क्षेका/छ.प.सं.मं/2017 रायपुर दिनांक 14/6/2017

प्रति,

सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मंडल,
मुख्यालय, नया रायपुर (छ.ग.)




विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनों की विश्लेषण रिपोर्ट माह मई 2017.
महोदय,

उपरोक्त विषयांतर्गत माह मई 2017 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल स्रोतों के जल नमूनों का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

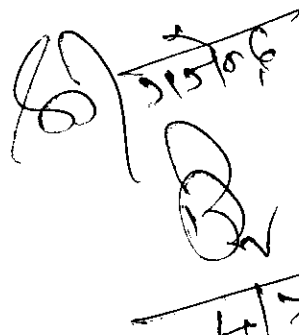
क्र.	जल नमूने का विवरण	स्टेशन क्र.	रिमारक
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।


क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

पृ.क्र. /वैज्ञा/क्षेका/छ.प.सं.मं/2017 रायपुर दिनांक / /2017
प्रतिलिपि :-

- 1 श्री आर.सी. त्रिवेदी, अतिरिक्त निदेशक (PAMS Division), केन्द्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, पूर्वी अर्जुन नगर नई दिल्ली - 110032 की ओर निर्देशानुसार सूचनार्थ प्रेषित।
- 2 आंचलिक अधिकारी, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, आंचलिक कार्यालय (मध्य) तृतीय तल सहकार भवन नॉर्थ टी.टी. नगर भोपाल की ओर सूचनार्थ प्रेषित।



MEMBER SECRETARY
3333
14/6/17

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	0	9	9	MINDAT / GLOWDAT						
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	3	0	5	1	7	1	3	3	0	STATION : RIVER MAHANADI AT RAJIM
3. WEATHER	Cloudy	√Clear	√Clear	Windy	Raining	NEAR ROAD BRIDGE					
4. APROX. DEPTH OF MAIN STREAM	√< 50 cm	50-100 cm	> 100 cm	Green	Flood	RIVER					
5. COLOR & INTENSITY	√Clear	Turbid	fishy	H ₂ S	Brown	S.K.Khanna (Lab Asst. Grade II)					
6. ODOUR	√None	√None	Moderate	High	Other	Scientist					
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	REGIONAL OFFICE CHHATTISGARH										
8. HUMAN ACTIVITIES AROUND STATION	ENVIRONMENT CONSERVATION										
9. LOCATION DETAIL	BOARD RAIPUR (C G)										

PHYSICO-CHEMICAL PARAMETERS VALUE MICRO POLLUTANT (WATER) VALUE MICRO POLLUTANT (SEDIMENT) VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE
TEMPERATURE °C	34.0
pH	7.68
CONDUCTIVITY μS/CM	244.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	124.0
(II) VISUAL TITRATION	12.2
NITROGEN (NO ₃) MG/L	6.1
DISSOLVED OXYGEN MG/L	2.6
BOD MG/L	1.8
COD MG/L	28.0
CHLORIDE MG/L	
(I) ARGENTOMETRIC	28.0
(II) MERCURIMETRIC	
SULPHATE MG/L	
(I) GRAVIMETRIC	
(II) TURBIDITY METRIC	13.0
SODIUM MG/L	11.0
CALCIUM as CaCO ₃ MG/L	27.2
MAGNESIUM as CaCO ₃ MG/L	7.31
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS VALUE	
TURBIDITY JT/UNTU	27.0
VELOCITY OF FLOW M/SEC	
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) Nesslerization	
HARDNESS AS CaCO ₃ MG/L	98.0
TOTAL COLIFORM MPN/100NL	160.0
TOTAL DISSOLVED SOLID MG/L	137.0
ARSENIC, μg/L	

PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	89.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	
PHOSPHATE MG/L	1.3
NITRATE (NO ₃) MG/L	
PHENOL PHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	26.0
POTASSIUM MG/L	7.0
FLUORIDE MG/L	0.3
ARSENIC, μg/L	
CADMIUM, μg/KG	

MICRO POLLUTANT (SEDIMENT)	VALUE
COPPER, μg/L	
CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), MG/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING VALUE	
SAPROBITY	
DIVERSITY INDEX	
P/R RATIO	

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Billing Pro-forma for MINARS for the Month of May 2017

Station Name	Station Code	Monitoring Frequency	pH	Conductivity	Alkalinity	Nitrite (NO ₂)	Nitrate (NO ₃)	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coli form	TDS	FDS	TSS	Phosphate	Temp	NH ₃	Field Observation	Fluoride	Sodium	Potassium	Copper	Chromium	Nickel	Iron	Lead	Boron		
River Mahanadi at Rajim	1099	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
River Mahanadi at Rudri dam Dhamtari	1264	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Kharoon at Bhatagaon	1265	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Sheonath at Simga	1266	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Mahanadi at Arang	1852	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Mahanadi at Sihawa Dhamtari	1851	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Kharoon at Bendri	1853	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bore well Rawabhata Raipur	1621	H A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bore well Tatibandh Raipur	1620	H A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total Sample			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Rate in Rs			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	45	135	135	105	150	75	75		
Amount			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	45	135	135	105	150	75	75		

Total Analysis Charges Rs.	1500=00
Sampling Charges @ Rs. 2200× per Sample	2200=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200× per Sample	200=00
Total Amount Rs.	3900=00

Rs. Three Thousand Nine Hundred Only

Analyzed by

Chemist

Scientist

Regional Officer



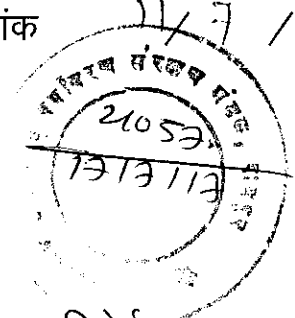
क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल

कबीर नगर व्यावसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 2749 वैज्ञा/क्षेका/छ.प.सं.मं/2017 रायपुर दिनांक 11/7/2017
प्रति,

सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मंडल,
मुख्यालय, नया रायपुर (छ.ग.)



विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनें की विश्लेषण रिपोर्ट माह जून 2017.
महोदय,

उपरोक्त विषयांतर्गत माह जून 2017 में मीनार्स कार्यक्रमनुसार प्राकृतिक जल स्रोतों के जल नमूनें का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

क्र.	जल नमूने का विवरण	स्टेशन क्र.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

क्षेत्रीय अधिकारी

क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

पृ.क. / वैज्ञा/क्षेका/छ.प.सं.मं/2017 रायपुर दिनांक / /2017

प्रतिलिपि :-

- 1 श्री आर.सी. त्रिवेदी, अतिरिक्त निदेशक (PAMS Division), केन्द्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, पूर्वी अर्जुन नगर नई दिल्ली - 110032 की ओर निर्देशानुसार सूचनार्थ प्रेषित।
आंचलिक अधिकारी, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, आंचलिक कार्यालय (मध्य) तृतीय तल सहकार भवन नॉर्थ टी.टी. नगर सोपाल की ओर सूचनार्थ प्रेषित।

CE (NO) / ACE (P/A)
SECRETARY / EE / CC
PRO / SO (NO) / SHO / SO-III

MEMBER SECRETARY

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	0	9	9	MINDAT / GLOWDAT						
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	7	0	6	1	7	1	6	3	0	STATION : RIVER MAHANADI AT RAJIM
3. WEATHER	Cloudy	√Clear	√Clear	√Clear	Windy	Raining					NEAR ROAD BRIDGE
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	> 100 cm	> 100 cm	Flood						RIVER
5. COLOR & INTENSITY	√Clear	Turbid	Green	Brown							COMPLETED BY : K.C. Sahu (Chemist)
6. ODOUR	√None	fishy	H ₂ S	Other							VERIFIED BY : Scientist
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None	√None	Moderate	High							AGENCY : REGIONAL OFFICE CHHATTISGARH
8. HUMAN ACTIVITIES AROUND STATION	Cattle	Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat							ENVIRONMENT CONSERVATION
9. LOCATION DETAIL											BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE MICRO POLLUTANT (WATER) VALUE MICRO POLLUTANT (SEDIMENT) VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)	VALUE	MICRO POLLUTANT (SEDIMENT)	VALUE
TEMPERATURE °C	33.0	CADMIUM, µg/L		COPPER, µg/L	
pH	7.84	COPPER, µg/L		CHROMIUM (TOTAL), µg/KG	
CONDUCTIVITY µS/CM	236.0	CHROMIUM (TOTAL), µg/L		NICKEL, µg/L	
ALKALINITY MG/L (TOTAL)		NICKEL, µg/L		ZINC, µg/L	
(I) ELECTROMETRIC		ZINC, µg/L		MERCURY, µg/L	
(II) VISUAL TITRATION	122.0	MERCURY, µg/L		IRON (TOTAL), MG/KG	
NITROGEN (NO ₂) MG/L	1.1	IRON (TOTAL), µg/L		LEAD, µg/KG	
DISSOLVED OXYGEN MG/L	6.2	BHC (TOTAL), µg/L L		BHC (TOTAL), µg/L L	
BOD MG/L	2.8	DDT (TOTAL), µg/L		DDT (TOTAL), µg/L	
COD MG/L	19.0	ENDOSULPHAN, µg/L		ENDOSULPHAN, µg/L	
CHLORIDE MG/L		DIELDRIN, µg/L		DIELDRIN, µg/L	
(I) ARGENTOMETRIC	32.0	ELDRINE, µg/L		ELDRINE, µg/L	
(II) MERCURIMATRIC		CARBAMATE, µg/L		CARBAMATE, µg/L	
SULPHATE MG/L		2-4D, µg/L		2-4D, µg/L	
(I) GRAVIMETRIC		MELATHION, µg/L		MELATHION, µg/L L	
(II) TURBIDITY METRIC	14.0	PARATHION, µg/L		PARATHION, µg/L	
SODIUM MG/L	12.0				
CALCIUM as CaCO ₃ MG/L	28.8				
MAGNESIUM as CaCO ₃ MG/L	7.8				
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M ³ /S					
PHYSICO-CHEMICAL PARAMETERS	VALUE	PHYSICO-CHEMICAL PARAMETERS	VALUE	BIO MONITORING	VALUE
TURBIDITY JTU/NTU		FIXED DISSOLVED SOLID MG/L	930	SAPROBITY	
VELOCITY OF FLOW M/SEC	30.0	AMMONIA NITROGEN MG/L		DIVERSITY INDEX	
(I) CURRENT METER		(I) COLOURIMETRIC MG/L		P/R RATIO	
(II) FLOAL		(II) DISTILLATION TITRATION MG/L			
(III) CHEMICAL		BORAN DISSOLVED MG/L			
TOTAL KJELDAHAL NITROGEN MG/L		PHOSPHATE MG/L	12		
(I) TITRATION		NITRATE (NO ₃) MG/L			
(II) NESSELERIZATION		PHENOLPHTHALEIN ALKALINITY MG/L			
HARDNESS AS CaCO ₃ MG/L	103.0	TOTAL SUSPENDED SOLID MG/L	280		
TOTAL COLIFORM MPN/100NL	170.0	POTASSIUM MG/L	80		
TOTAL DISSOLVED SOLID MG/L	134.0	FLUORIDE MG/L	05		
ARSENIC, µg/L		ARSENIC, µg/L			
		CADMIUM, µg/KG			

Handwritten signatures and initials are present on the right side of the page, including a large signature at the top right and initials 'A' and 'Ksh' at the bottom right.

Billing Pro-forma for MINARS for the Month of June 2017

Station Name	Station Code	Monitoring Frequency	pH	Conductivity	Alkalinity	Nitrite (NO ₂)	Nitrate (NO ₃)	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coli form	TDS	FDS	TSS	Phosphate	Temp	NH ₃	Field Observation	Fluoride	Sodium	Potassium	Copper	Chromium	Nickel	Iron	Lead	Boron	
River Mahanadi at Rajim	1099	M	1	1	1	*	*	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	*	1	1	1	*	*	*	*	*	*	*	
River Mahanadi at Rudri dam Dhamtari	1264	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Kharoon at Bhatagaon	1265	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Sheonath at Simga	1266	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Mahanadi at Arang	1852	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Mahanadi at Sihawa Dhamtari	1851	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Kharoon at Bendri	1853	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bore well Rawabhata Raipur	1621	H A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bore well Tatibandh Raipur	1620	H A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total Sample			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Rate in Rs			45	45	45	45	45	150	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	45	135	135	105	150	75		
Amount			45	45	45	45	45	150	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	45	135	135	105	150	75		

Total Analysis Charges Rs.	1500=00
Sampling Charges @ Rs. 2200× per Sample	2200=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200× per Sample	200=00
Total Amount Rs.	3900=00

Rs. Three Thousand Nine Hundred Only

Analyzed by

Chemist

Scientist

Regional Officer



क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल

कबीर नगर व्यावसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

5502
23/8/17

क्रमांक 3187/क्षेका/वैज्ञा/छ.प.सं.मं/2017 रायपुर दिनांक 9/8/2017

प्रति,

सदस्य सचिव महोदय,
छ.ग. पर्यावरण संरक्षण मंडल,
मंडल मुख्यालय, नया रायपुर (छ.ग.)

विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनों की विश्लेषण रिपोर्ट माह जुलाई 2017.
महोदय,

उपरोक्त विषयांतर्गत माह जुलाई 2017 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल स्रोतों के जल नमूनों का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

क्र.	जल नमूने का विवरण	स्टेशन क्र.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।
02	महानदी रूद्री जलाशय, ग्राम रूद्री (धमतरी जलाशय के उपरी भाग)	1264	रिपोर्ट संलग्न है।
03	खारून नदी भाटागांव, रायपुर (वाटर सप्लाई इन्टेकवेल के समीप)	1265	रिपोर्ट संलग्न है।
04	शिवनाथ नदी सिमगा (सिमगा-बेमेतरा रोड ब्रिज के समीप)	1266	रिपोर्ट संलग्न है।
05	खारून नदी बेन्द्री (वाटर सप्लाई इन्टेकवेल के समीप)	1853	रिपोर्ट संलग्न है।
06	महानदी सिहावा (उदगम स्थल)	1851	रिपोर्ट संलग्न है।
07	महानदी आरंग (रोड ब्रिज के समीप)	1852	रिपोर्ट संलग्न है।
08	बोरवेल न्यू एच.आई.जी.-11, टाटीबंध, रायपुर	1620	रिपोर्ट संलग्न है।
09	बोरवेल मेसर्स प्रकृति इण्डस्ट्रीज, रावाभाठा, रायपुर	1621	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)
/ / 2017

पृ.क्र. /क्षेका/वैज्ञा/छ.प.सं.मं/2017 रायपुर, दिनांक

प्रतिलिपि :-

- 1 श्री आर.सी. त्रिवेदी, अतिरिक्त निदेशक (PAMS Division), केन्द्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, पूर्वी अर्जुन नगर नई दिल्ली - 110032 की ओर निर्देशानुसार सूचनार्थ प्रेषित।
- 2 आंचलिक अधिकारी, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, आंचलिक कार्यालय (मध्य) तृतीय तल सहकार भवन नॉर्थ टी.टी. नगर, भुवनेश्वर की ओर सूचनार्थ प्रेषित।

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

24/8/17

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√MINARS/GEMS

1. STATION CODE	1	0	9	9	0	7	1	7	1	1	6	3	0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	5	0	7	1	7	1	7	1	1	6	3	0
3. WEATHER	√Cloudy Clear Windy Raining												
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm 50-100 cm >100 cm Flood												
5. COLOUR & INTENSITY	Clear √Turbid Green Brown												
6. ODOUR	√None fishy H ₂ S Other												
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None Moderate High												
8. HUMAN ACTIVITIES AROUND STATION	Cattle √None Industrial area Pilgrim Centre / Bathing Ghat												
9. LOCATION DETAIL	√Us of town or Industrial area D/s of Town or Industrial area												

MINDAT / GLOWDAT

STATION	: RIVER MAHANADIAT RAJIM
TYPE	: NEAR ROAD BRIDGE
COMPLETED BY	: RIVER
VERIFIED BY	: S.K.Khanna (Lab Asst. Grade II)
AGENCY	: Scientist
	: REGIONAL OFFICE CHHATTISGARH
	: ENVIRONMENT CONSERVATION
	: BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS

	VALUE
TEMPERATURE °C	26.0
pH	7.46
CONDUCTIVITY μS/CM	511.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	122.0
NITROGEN (NO ₂) MG/L	2.1
DISSOLVED OXYGEN MG/L	7.2
BOD MG/L	2.6
COD MG/L	3.6
CHLORIDE MG/L	
(I) ARGENTOMETRIC	3.6
(II) MERCURIMATRIC	
SULPHATE MG/L	
(I) GRAVIMATRIC	1.5
(II) TURBIDITY MATRIC	2.2
SODIUM MG/L	2.8
CALCIUM as CaCO ₃ MG/L	9.0
MAGNESIUM as CaCO ₃ MG/L	0.2
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JT/UNTU	9.2
VELOCITY OF FLOW M/SEC	0
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	3
(II) Nesslerization	3
HARDNESS AS CaCO ₃ MG/L	10.7
TOTAL COLIFORM MPN/100NL	500
TOTAL DISSOLVED SOLID MG/L	208

MICRO POLLUTANT (WATER)

	VALUE
ARSENIC, μg/L	
CADMIUM, μg/L	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	124
AMMONIA NITROGEN MG/L	0
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	
PHOSPHATE MG/L	3
NITRATE (NO ₃) MG/L	3
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	102
POTASSIUM MG/L	40
FLUORIDE MG/L	0.8

MICRO POLLUTANT (SEDIMENT)

	VALUE
ARSENIC, μg/L	
CADMIUM, μg/KG	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), MG/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	VALUE

	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

1. STATION CODE	1	2	6	4								
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	5	0	7	1	7	1	1	4	0	0	
3. WEATHER	√Cloudy	Clear	Windy	Raining								
4. APROX. DEPTH OF MAIN STREAM	< 50 cm	√50-100 cm	>100 cm	Flood								
5. COLOUR & INTENSITY	Clear	√Turbid	Green	Brown								
6. ODOUR	√none	fishy	H ₂ S	Other								
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√none	melon	Moderate	High								
8. HUMAN ACTIVITIES AROUND STATION	Cattle	Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat								
9. LOCATION DETAIL	MINDAT / GLOWDAT											
	STATION : RIVER MAHANADI AT RUDRIDAM,											
	TYPE : RIVER WATER											
	COMPLETED BY : S.K.Khanna (Lab Asst. Grade II)											
	VERIFIED BY : Scientist											
	AGENCY : REGIONAL OFFICE CHHATTISGARH											
	ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)											

PHYSICO-CHEMICAL PARAMETERS

	2	6	0	VALUE
TEMPERATURE °C	7	6	3	
pH	4	3	0	0
CONDUCTIVITY μS/CM				
ALKALINITY MG/L (TOTAL)				
(I) ELECTROMETRIC				
(II) VISUAL TITRATION	1	2	1	0
NITROGEN (NO ₂) MG/L	2	3		
DISSOLVED OXYGEN MG/L	7	6		
BOD MG/L	2	3		
CHLORIDE MG/L	3	4	4	4
(I) ARGENTOMETRIC	3	7	0	
(II) MERCURIMATRIC				
SULPHATE MG/L				
(I) GRAVIMATRIC				
(II) TURBIDITY MATRIC	1	4	0	
SODIUM MG/L	1	9	0	
CALCIUM as CaCO ₃ MG/L	2	5	6	
MAGNESIUM as CaCO ₃ MG/L	7	8		
FECAL COLIFORM MPN/100 ML				
INSTANTANEOUS DISCHARGE M/S				
PHYSICO-CHEMICAL PARAMETERS				VALUE
TURBIDITY JT/UNTU	8	6	0	
VELOCITY OF FLOW M/SEC				
(I) CURRENT METER				
(II) FLOAL				
(III) CHEMICAL				
TOTAL KJELDAHAL NITROGEN MG/L				
(I) TITRATION				
(II) NESSELERIZATION				
HARDNESS AS CaCO ₃ MG/L	9	6	0	
TOTAL COLIFORM MPN/100ML	3	5	0	0
TOTAL DISSOLVED SOLID MG/L	2	3	6	0
ARSENIC, μg/L				
CADMIUM, μg/L				

MICRO POLLUTANT (WATER)

	VALUE
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DELDRIN, μg/L	
CARBAMATE, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	1 8 3 0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	
PHOSPHATE MG/L	2 4
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	1 2 1 0
POTASSIUM MG/L	6 0 0
FLUORIDE MG/L	0 8
ARSENIC, μg/L	
CADMIUM, μg/KG	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	

MICRO POLLUTANT (SEDIMENT)

	VALUE
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), MG/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

88

88

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	2	6	5						MINDAT / GLOWDAT	
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	8	0	7	1	7	1	3	0	0	STATION : RIVER KHAROON AT BHATAGAON
3. WEATHER	√Cloudy		Clear	Clear	Windy	Raining					U/S Near w/s intake well
4. APROX. DEPTH OF MAIN STREAM	√< 50 cm		50-100 cm	>100 cm	Flood						: RIVER
5. COLOUR & INTENSITY	Clear		√Turbid	Green	Brown						: S.K.Khanna (Lab Asst. Grade II)
6. ODOUR	√None		fishy	H ₂ S	Other						: Scientist
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle		√None	Moderate	High						: REGIONAL OFFICE CHHATTISGARH
8. HUMAN ACTIVITIES AROUND STATION	√U/s of town or		Industrial area	D/s of Town or	Industrial area						ENVIRONMENT CONSERVATION
9. LOCATION DETAIL											BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS

PHYSICO-CHEMICAL PARAMETERS	VALUE
TEMPERATURE °C	27.0
pH	7.48
CONDUCTIVITY μS/CM	554.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	122.0
NITROGEN (NO ₃) MG/L	2.2
DISSOLVED OXYGEN MG/L	7.6
BOD MG/L	2.6
COD MG/L	32.0
CHLORIDE MG/L	
(I) ARGENTOMETRIC	33.0
(II) MERCURIMETRIC	
SULPHATE MG/L	
(I) GRAVIMETRIC	16.0
(II) TURBIDITY MATRIC	23.0
SODIUM MG/L	26.4
CALCIUM as CaCO ₃ MG/L	9.26
MAGNESIUM as CaCO ₃ MG/L	
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JT/NTU	121.0
VELOCITY OF FLOW M/SEC	
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) Nesslerization	104.0
HARDNESS AS CaCO ₃ MG/L	300.0
TOTAL COLIFORM MPN/100 ML	268.0
TOTAL DISSOLVED SOLID MG/L	
ARSENIC, μg/L	

MICRO POLLUTANT (WATER)

MICRO POLLUTANT (WATER)	VALUE
CADMIUM, μg/L	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	89.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	
PHOSPHATE MG/L	2.4
NITRATE MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	112.0
POTASSIUM MG/L	6.0
FLUORIDE MG/L	0.8
ARSENIC, μg/L	
CADMIUM, μg/L	
COPPER, μg/L	

MICRO POLLUTANT (SEDIMENT)

MICRO POLLUTANT (SEDIMENT)	VALUE
CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), Mg/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

8

8

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

✓MINARS/GEMS

STATION CODE	MINDAT / GLOWDAT										
	1	2	6	6	1	4	0	0	0		
1. STATION CODE	1	4	0	7	1	7	1	1	4	0	0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	✓Cloudy	Clear	Windy	Raining	Flood						
3. WEATHER	< 50 cm	✓50-100 cm	>100 cm	Green	Brown						
4. APROX. DEPTH OF MAIN STREAM	✓None	fishy	H ₂ S	Moderate	High						
5. COLOUR & INTENSITY	✓None	melon	Forming	Industrial area	Industrial area						
6. ODOUR	Cattle	U/s of town or	D/s of Town or	Pilgrim Centre /							
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT		Industrial area	Industrial area	Industrial area							
8. HUMAN ACTIVITIES AROUND STATION											
9. LOCATION DETAIL											

STATION : RIVER SHEONATH AT SIMGA
NEAR SIMGA - BEMETARA ROAD BRIDGE
TYPE : RIVER
COMPLETED BY : S.K.Khanna (Lab Asst. Grade II)
VERIFIED BY : Scientist
AGENCY : REGIONAL OFFICE CHHATTISGARH
ENVIRONMENT CONSERVATION
BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE
TEMPERATURE °C	27.0
pH	7.76
CONDUCTIVITY µS/CM	510.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	116.0
NITROGEN (NO ₂) MG/L	2.3
DISSOLVED OXYGEN MG/L	7.2
BOD MG/L	2.6
COD MG/L	42.6
CHLORIDE MG/L	
(I) ARGENTOMETRIC	33.6
(II) MERCURIMATRIC	
SULPHATE MG/L	
(I) GRAVIMATRIC	
(II) TURBIDITY MATRIC	16.0
SODIUM MG/L	17.0
CALCIUM as CaCO ₃ MG/L	33.8
MAGNESIUM as CaCO ₃ MG/L	8.78
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JT/UNTU	
VELOCITY OF FLOW M/SEC	7.60
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) NESSELERIZATION	
HARDNESS AS CaCO ₃ MG/L	113.0
TOTAL COLIFORM MPN/100ML	350.0
TOTAL DISSOLVED SOLID MG/L	302.0

MICRO POLLUTANT (WATER) VALUE

MICRO POLLUTANT (WATER)	VALUE
ARSENIC, µg/L	
CADMIUM, µg/L	
COPPER, µg/L	
CHROMIUM (TOTAL), µg/L	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), µg/L	
LEAD, µg/L	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	
PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	146.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	
PHOSPHATE MG/L	1.4
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	121.0
POTASSIUM MG/L	5.0
FLUORIDE MG/L	0.6
ARSENIC, µg/L	
CADMIUM, µg/KG	
COPPER, µg/L	

MICRO POLLUTANT (SEDIMENT) VALUE

MICRO POLLUTANT (SEDIMENT)	VALUE
CHROMIUM (TOTAL), µg/KG	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), MG/KG	
LEAD, µg/KG	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

28

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE		1	8	5	3	MINDAT / GLOWDAT			
DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)		1	7	0	7	: RIVER KHARON AT BENDRI VILLAGE			
WEATHER		Cloudy		✓Clear	Windy	U/s near CSIDC w/s intake well			
APPROX. DEPTH OF MAIN STREAM		< 50 cm		> 50-100 cm	> 100 cm	: RIVER			
COLOUR & INTENSITY		✓Clear		✓Turbid	Green	: S.K Khanna (Lab Asst. Grade II)			
ODOUR		✓None		Fishy	H ₂ S	: Scientist			
VISIBLE EFFLUENT DISCHARGE IN PROXIMITY		Cattle		✓None	Moderate	: REGIONAL OFFICE CHHATTISGARH			
HUMAN ACTIVITIES AROUND STATION		Industrial area		D/s of town or Industrial area	Industrial area	: ENVIRONMENT CONSERVATION			
LOCATION DETAIL		Pilgrim Centre / Bathing Ghat		: BOARD RAIPUR (C G)					

PHYSICO-CHEMICAL PARAMETERS

MICRO POLLUTANT (WATER)

MICRO POLLUTANT (SEDIMENT)

PARAMETER	VALUE	VALUE	VALUE
TEMPERATURE °C	28.0		
pH	7.6		
CONDUCTIVITY µS/CM	588.0		
ALKALINITY MG/L (TOTAL)			
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	160.0		
NITROGEN (NO ₂) MG/L	2.2		
DISSOLVED OXYGEN MG/L	6.8		
BOD MG/L	3.4		
COD MG/L	46.0		
CHLORIDE MG/L			
(I) ARGENTOMETRIC	42.0		
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC	22.0		
(II) TURBIDITY MATRIC	18.0		
SODIUM MG/L	33.6		
CALCIUM as CaCO ₃ MG/L	9.75		
MAGNESIUM as CaCO ₃ MG/L			
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS			
TURBIDITY JT/UNTU	132.0		
VELOCITY OF FLOW M/SEC			
CURRENT METER			
(I) FLOAL			
(II) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NITROGEN			
HARDNESS AS CaCO ₃ MG/L	124.0		
TOTAL COLIFORM MPN/100 ML	350.0		
TOTAL DISSOLVED SOLID MG/L	286.0		
ARSENIC µg/L			

PARAMETER	VALUE	VALUE	VALUE
CADMIUM µg/L			
COPPER µg/L			
CHROMIUM (TOTAL) µg/L			
NICKEL µg/L			
ZINC µg/L			
MERCURY µg/L			
IRON (TOTAL) MG/KG			
LEAD µg/L			
BHC (TOTAL) µg/L			
DDT (TOTAL) µg/L			
ENDOSULPHAN µg/L			
DIELDRIN µg/L			
ELDRINE µg/L			
CARBAMATE µg/L			
2-4D µg/L			
MELATHION µg/L			
PARATHION µg/L			
PHYSICO-CHEMICAL PARAMETERS			
FIXED DISSOLVED SOLID MG/L	186.0		
AMMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORON DISSOLVED MG/L			
PHOSPHATE MG/L	4.0		
NITRATE (NO ₃) MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	105.0		
POTASSIUM MG/L	6.0		
FLUORIDE MG/L	0.33		
ARSENIC µg/L			
CADMIUM µg/KG			

PARAMETER	VALUE
COPPER µg/L	
CHROMIUM (TOTAL) µg/KG	
NICKEL µg/L	
ZINC µg/L	
MERCURY µg/L	
IRON (TOTAL) MG/KG	
LEAD µg/L	
BHC (TOTAL) µg/L	
DDT (TOTAL) µg/L	
ENDOSULPHAN µg/L	
DIELDRIN µg/L	
ELDRINE µg/L	
CARBAMATE µg/L	
2-4D µg/L	
MELATHION µg/L	
PARATHION µg/L	
BIO MONITORING	
SAPROBITY	
DIVERSITY INDEX	
P/R RATIO	

8

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	8	5	1					
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	5	0	7	1	7	1	1	0
3. WEATHER	√Cloudy	Clear	Windy	Raining					
4. APROX. DEPTH OF MAIN STREAM	< 50 cm	√50-100 cm	>100 cm	Flood					
5. COLOUR & INTENSITY	Clear	√Turbid	Green	Brown					
6. ODOUR	√None	fishy	H ₂ S	Other					
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None	√None	Moderate	High					
8. HUMAN ACTIVITIES AROUND STATION	Cattle	melon	Forming	√Other					
9. LOCATION DETAIL	U/s of town or Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat						
MINDAT / GLOWDAT									
STATION : RIVER MAHANADI AT SIHAWA									
TYPE : RIVER									
ORIGIN POINT OF RIVER MAHANADI : RIVER									
COMPLETED BY : S.K.Khanna (Lab Asst. Grade II)									
VERIFIED BY : Scientist									
AGENCY : REGIONAL OFFICE CHEATTISGARH									
ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)									

PHYSICO-CHEMICAL PARAMETERS VALUE MICRO POLLUTANT (WATER) VALUE MICRO POLLUTANT (SEDIMENT) VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)	VALUE	MICRO POLLUTANT (SEDIMENT)	VALUE
TEMPERATURE °C	27.0	ARSENIC, µg/L		CADMIUM, µg/KG	
pH	7.74	CADMIUM, µg/L		COPPER, µg/L	
CONDUCTIVITY µS/CM	412.0	COPPER, µg/L		CHROMIUM (TOTAL), µg/KG	
ALKALINITY MG/L (TOTAL)		CHROMIUM (TOTAL), µg/L		NICKEL, µg/L	
(I) ELECTROMETRIC		NICKEL, µg/L		ZINC, µg/L	
(II) VISUAL TITRATION	154.0	ZINC, µg/L		MERCURY, µg/L	
NITROGEN (NO ₂) MG/L	1.1	IRON (TOTAL), µg/L		IRON (TOTAL), MG/KG	
DISSOLVED OXYGEN MG/L	6.5	LEAD, µg/L		LEAD, µg/KG	
BOD MG/L	2.2	BHC (TOTAL), µg/L L		BHC (TOTAL), µg/L L	
COD MG/L	34.0	DDT (TOTAL), µg/L		DDT (TOTAL), µg/L	
CHLORIDE MG/L		ENDOSULPHAN, µg/L		ENDOSULPHAN, µg/L	
(I) ARGENTOMETRIC	64.0	DIELDRIN, µg/L		DIELDRIN, µg/L	
(II) MERCURIMATRIC		ELDRINE, µg/L		ELDRINE, µg/L	
SULPHATE MG/L		CARBAMATE, µg/L		CARBAMATE, µg/L	
(I) GRAVIMATRIC	16.0	2-4D, µg/L		2-4D, µg/L	
(II) TURBIDITY MATRIC	21.0	MELATHION, µg/L		MELATHION, µg/L L	
SODIUM MG/L	33.6	PARATHION, µg/L		PARATHION, µg/L	
CALCIUM as CaCO ₃ MG/L	10.2				
MAGNESIUM as CaCO ₃ MG/L					
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M/S					
PHYSICO-CHEMICAL PARAMETERS VALUE		PHYSICO-CHEMICAL PARAMETERS VALUE		BIO MONITORING VALUE	
TURBIDITY JTUNTU	68.0	FIXED DISSOLVED SOLID MG/L	136.0	SAPROBITY	
VELOCITY OF FLOW M/SEC		AMMONIA NITROGEN MG/L		DIVERSITY INDAX	
(I) CURRENT METER		(I) COLOURIMETRIC MG/L		P/R RATIO	
(II) FLOAL		(II) DISTILLATION TITRATION MG/L			
(III) CHEMICAL		BORAN DISSOLVED MG/L			
TOTAL KIELDHAH NITROGEN MG/L		PHOSPHATE MG/L	27		
(I) TITRATION		NITRATE (NO ₃) MG/L			
(II) NESSELERIZATION		PHENOLPHTHALEIN ALKALINITY MG/L			
HARDNESS AS CaCO ₃ MG/L	126.0	TOTAL SUSPENDED SOLID MG/L	108.0		
TOTAL COLIFORM MPN/100ML	300.0	POTASSIUM MG/L	8.0		
TOTAL DISSOLVED SOLID MG/L	184.0	FLUORIDE MG/L	0.6		
		ARSENIC, µg/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1.	STATION CODE	1	8	5	2	MINDAT / GLOWDAT						
2.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	0	0	7	1	7	1	1	3	0	0
3.	WEATHER	√Cloudy		Clear		Windy		Raining		RIVER MAHANADI AT ARANG		
4.	APROX. DEPTH OF MAIN STREAM	√< 50 cm		50-100 cm		>100 cm		Flood		NEAR GANDHI SETU NH -6		
5.	COLOUR & INTENSITY	Clear		√Turbid		Green		Brown		RIVER		
6.	ODOUR	√None		fishy		H ₂ S		Other		S.K. Khanna (Lab Asst. Grade II)		
7.	VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None		melon		Forming		High		Scientist		
8.	HUMAN ACTIVITIES AROUND STATION	Cattle		Industrial area		D/s of Town or Industrial area		Pilgrim Centre / Bathing Ghat		REGIONAL OFFICE CHHATTISGARH		
9.	LOCATION DETAIL	Industrial area		Industrial area		Industrial area		Other		ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)		

PHYSICO-CHEMICAL PARAMETERS

MICRO POLLUTANT (WATER)

MICRO POLLUTANT (SEDIMENT)

TEMPERATURE °C	2	7	0
pH	7	4	6
CONDUCTIVITY μS/CM	5	1	8
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	2	8
NITROGEN (NO ₂) MG/L	2	2	
DISSOLVED OXYGEN MG/L	7	2	
BOD MG/L	2	6	
COD MG/L	4	8	0
CHLORIDE MG/L			
(I) ARGENTOMETRIC	4	4	0
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC	1	3	0
(II) TURBIDITY MATRIC	2	3	0
SODIUM MG/L	2	7	2
CALCIUM as CaCO ₃ MG/L	1	0	0
MAGNESIUM as CaCO ₃ MG/L			
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M/S			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY JT/UNTU	9	3	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) Nesslerization	1	0	9
HARDNESS AS CaCO ₃ MG/L	3	0	0
TOTAL COLIFORM MPN/100ML	2	1	4
TOTAL DISSOLVED SOLID MG/L			

ARSENIC, μg/L			
CADMIUM, μg/L			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/L			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), Mg/KG			
LEAD, μg/L			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
FIXED DISSOLVED SOLID MG/L	1	3	0
AMMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L	2	2	
PHOSPHATE MG/L			
NITRATE (NO ₃) MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	1	1	0
POTASSIUM MG/L	8	0	
FLUORIDE MG/L	0	4	
ARSENIC, μg/L			

CADMIUM, μg/KG			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/KG			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), Mg/KG			
LEAD, μg/KG			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			
BIO MONITORING	VALUE		
SAPROBITY			
DIVERSITY INDEX			
P/R RATIO			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	6	2	0	1	7	1	1	0	0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	5	0	7	1	7	1	1	0	0
3. WEATHER	Cloudy	√Clear	Windy	Raining						
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	> 100 cm	Flood						
5. COLOUR & INTENSITY	√Clear	Turbid	Green	Brown						
6. ODOUR	√None	fishy	H ₂ S	Other						
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None	melon	Moderate	High						
8. HUMAN ACTIVITIES AROUND STATION	Cattle	U/s of town or Industrial area	Forming	Other						
9. LOCATION DETAIL	Pilgrim Centre / Bathing Ghat									

PHYSICO-CHEMICAL PARAMETERS

MICRO POLLUTANT (WATER)

MICRO POLLUTANT (SEDIMENT)

PHYSICO-CHEMICAL PARAMETERS	2	5	8	4	0
TEMPERATURE °C	7	8	4		
pH	6	6	4	0	
CONDUCTIVITY μS/CM					
ALKALINITY MG/L (TOTAL)					
(I) ELECTROMETRIC					
(II) VISUAL TITRATION	1	4	0	0	
NITROGEN (NO ₂) MG/L	2	3			
DISSOLVED OXYGEN MG/L	0	6			
BOD MG/L	0	2			
COD MG/L	5	0			
CHLORIDE MG/L					
(I) ARGENTOMETRIC	4	4	0		
(II) MERCURIMATRIC					
SULPHATE MG/L					
(I) GRAVIMATRIC					
(II) TURBIDITY MATRIC	3	3	0		
SODIUM MG/L	2	4	6		
CALCIUM as CaCO ₃ MG/L	4	4	0		
MAGNESIUM as CaCO ₃ MG/L	1	0	9		
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M ³ /S					
PHYSICO-CHEMICAL PARAMETERS	VALUE				
TURBIDITY JT/UNTU	1	1	0		
VELOCITY OF FLOW M/SEC					
(I) CURRENT METER					
(II) FLOAL					
(III) CHEMICAL					
TOTAL KJELDAHAL NITROGEN MG/L					
(I) TITRATION					
(II) NESSELERIZATION					
HARDNESS AS CaCO ₃ MG/L	1	5	0		
TOTAL COLIFORM MPN/100 ML	2	0			
TOTAL DISSOLVED SOLID MG/L	4	0	8	0	
ARSENIC, μg/L					

PHYSICO-CHEMICAL PARAMETERS	2	1	0	0
CADMIUM, μg/L				
COPPER, μg/L				
CHROMIUM (TOTAL), μg/L				
NICKEL, μg/L				
ZINC, μg/L				
MERCURY, μg/L				
IRON (TOTAL), μg/L				
LEAD, μg/L				
BHC (TOTAL), μg/L				
DDT (TOTAL), μg/L				
ENDOSULPHAN, μg/L				
ELDRIENE, μg/L				
CARBAMATE, μg/L				
2-4D, μg/L				
MELATHION, μg/L				
PARATHION, μg/L				
PHYSICO-CHEMICAL PARAMETERS	VALUE			
FIXED DISSOLVED SOLID MG/L	2	1	0	0
AMMONIA NITROGEN MG/L				
(I) COLOURIMETRIC MG/L				
(II) DISTILLATION TITRATION MG/L				
BORAN DISSOLVED MG/L	0	2		
PHOSPHATE MG/L				
NITRATE (NO ₃) MG/L				
PHENOLPHTHALEIN ALKALINITY MG/L				
TOTAL SUSPENDED SOLID MG/L	1	6	0	
POTASSIUM MG/L	1	2	2	
FLUORIDE MG/L	0	1	2	
ARSENIC, μg/L				
CADMIUM, μg/L				
COPPER, μg/L				

PHYSICO-CHEMICAL PARAMETERS	VALUE
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
CYANIDE, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRIENE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT						STATION				
	1	6	2	1	1	3		0	0		
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	3	0	7	1	7	1	3	0	0	Bore well water in the Premises of Prakriti Industries, Rawabhata, Raipur
3. WEATHER	√Cloudy	Clear	Windy	Raining	Flood						Office Premises
4. APROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	√ > 100 cm								BORE WELL WATER
5. COLOUR & INTENSITY	√Clear	Turbid	Green	Brown	Other						S.K.Khanna (Lab Asst. Grade II)
6. ODOUR	√None	fishy	H ₂ S	High							Scientist
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT			moderate								REGIONAL OFFICE CHHATTISGARH
8. HUMAN ACTIVITIES AROUND STATION	Cattle	melon	Forming	Other							ENVIRONMENT CONSERVATION
9. LOCATION DETAIL	U/s of town or Industrial area	D/s of town or Industrial area	Industrial area	Pilgrim Centre / Bathing Ghat							BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE
TEMPERATURE °C	25.0
pH	7.6
CONDUCTIVITY µS/CM	566.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	184.0
NITROGEN (NO ₂) MG/L	2.3
DISSOLVED OXYGEN MG/L	0.5
BOD MG/L	0.3
COD MG/L	8.5
CHLORIDE MG/L	
(I) ARGENTOMETRIC	34.4
(II) MERCURIMATRIC	
SULPHATE MG/L	
(I) GRAVIMATRIC	34.0
(II) TURBIDITY MATRIC	2.0
SODIUM MG/L	4.6
CALCIUM as CaCO ₃ MG/L	1.3
MAGNESIUM as CaCO ₃ MG/L	4.4
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M/S	
PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JTU/NTU	10.0
VELOCITY OF FLOW M/SEC	
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) NESSELERIZATION	
HARDNESS AS CaCO ₃ MG/L	171.0
TOTAL COLIFORM MPN/100 ML	3.0
TOTAL DISSOLVED SOLID MG/L	368.0

MICRO POLLUTANT (WATER) VALUE

MICRO POLLUTANT (WATER)	VALUE
ARSENIC, µg/L	
CADMIUM, µg/L	
COPPER, µg/L	
CHROMIUM (TOTAL), µg/L	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), µg/L	
LEAD, µg/L	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	
PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	202.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORON DISSOLVED MG/L	0.6
PHOSPHATE MG/L	
NITRATE MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	21.0
POTASSIUM MG/L	8.0
FLUORIDE MG/L	0.18
ARSENIC, µg/L	
CADMIUM, µg/L	

MICRO POLLUTANT (SEDIMENT) VALUE

MICRO POLLUTANT (SEDIMENT)	VALUE
COPPER, µg/L	
CHROMIUM (TOTAL), µg/L	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), µg/L	
CYANIDE, µg/L	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

152

8

Billing Pro-forma for MINARS for the Month of July 2017

Station Name	Station Code	Monitoring Frequency	pH	Conductivity	Alkalinity	Nitrite (NO ₂)	Nitrate (NO ₃)	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coli form	TDS	FDS	TSS	Phosphate	Temp	NH ₃	Field Observation	Fluoride	Sodium	Potassium	Copper	Chromium	Nickel	Iron	Lead	Boron
River Mahanadi at Rajim	1099	M	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
River Mahanadi at Rudri dam Dhamtari	1264	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
River Kharoon at Bhatagaon	1265	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
River Sheonath at Simga	1266	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
River Mahanadi at Arang	1852	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
River Mahanadi at Sihawa Dhamtari	1851	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
River Kharoon at Bendri	1853	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
Bore well Rawabhata Raipur	1621	H A	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
Bore well Tatibandh Raipur	1620	H A	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
Total Sample			9	9	9	9	0	9	9	9	9	9	9	9	0	9	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0
Rate in Rs			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	45	135	135	105	150	75	75
Amount			405	405	405	405	-	405	1350	1035	405	675	405	405	-	405	675	675	675	675	675	135	-	1800	675	405	405	-	-	-	-	-	-

Total Analysis Charges Rs.	13500=00
Sampling Charges @ Rs. 2200×9 per Sample	19800=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200×9 per Sample	1800=00
Total Amount Rs.	35100=00

Rs. Thirty Five Thousand One Hundred Only

Analyzed by

Chemist

Scientist

Regional Officer



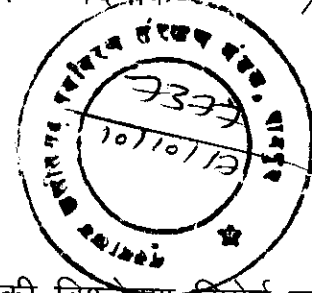
क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल
कबीर नगर व्यावसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

कमांक 4191 / वैज्ञा / क्षेका / छ.प.सं.मं / 2017 रायपुर दिनांक 07 OCT 2017 / 2017

प्रति,

सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मंडल,
मुख्यालय, नया रायपुर (छ.ग.)



विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूने की विश्लेषण रिपोर्ट माह सितम्बर 2017, महोदय,

उपरोक्त विषयांतर्गत माह सितम्बर 2017 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल स्रोतों के जल नमूने का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

क्र.	जल नमूने का विवरण	स्टेशन क्र.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

CE(I/C) / ACE(R/L)
SE(B/M/S) / EE / CC
PRO / SO(A/C) / Stf.O / SO-I/II
MEMBER SECRETARY

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

पृ.क. / वैज्ञा / क्षेका / छ.प.सं.मं / 2017 रायपुर दिनांक / / 2017
प्रतिलिपि :-

- 1 सदस्य सचिव, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, पूर्वी अर्जुन नगर, नई दिल्ली की ओर निर्देशानुसार सूचनार्थ प्रेषित।
- 2 क्षेत्रीय निदेशक, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, आंचलिक कार्यालय (मध्य) तृतीय तल, सहकार भवन नॉर्थ टी.टी. नगर भोपाल-462003 (म.प्र.) की ओर सूचनार्थ प्रेषित।

10/10/17

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	0	9	9	1	7	1	3	0	0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	0	0	9	1	7	1	3	0	0
3. WEATHER	✓	Cloudy	Clear	Windy	Raining					
4. APPROX. DEPTH OF MAIN SURTAM	<	50 cm	>	100 cm	Flood					
5. COLOR & INTENSITY	Clear	A turbid	Green	Brown						
6. ODOUR	None	fishy	H ₂ S	Other						
7. VISIBL. EFFLUENT DISCHARGE IN PROXIMITY	None	Industrial area	Moderate	High						
8. HUMAN ACTIVITIES AROUND STATION	Cattle	Industrial area	Forming	Other						
9. LOCATION DETAIL	U/s of town or	Industrial area	D/s of town or	Bathing Ghat						
MINDAT GLOWDAT	STATION : RIVER MAHANADI AT RAJIM									
TYPE	NEAR ROAD BRIDGE									
COMPILED BY	RIVER									
VERIFIED BY	K.C. Sahu (Chemist)									
AGENCY	Scientist									
	REGIONAL OFFICE CHHATTISGARH									
	ENVIRONMENT CONSERVATION									
	BOARD RAIPUR (C.G.)									

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	26.0
pH	7.68
CONDUCTIVITY µSCM	344.0
ALKALINITY MGL (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	128.0
NITROGEN (NO ₃) MGL	1.2
DISSOLVED OXYGEN MGL	7.51
BOD MGL	2.2
COD MGL	2.3
CHLORIDE MGL	53.76
(I) ARGENTOMETRIC	36.0
(II) MERCURIMETRIC	
SULPHATE MGL	
(I) GRAVIMETRIC	13.0
(II) TURBIDITY METRIC	11.0
SODIUM MGL	27.2
CALCIUM as CaCO ₃ MGL	8.29
MAGNESIUM as CaCO ₃ MGL	
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	

PHYSICO-CHEMICAL PARAMETERS VALUE

TURBIDITY JT/UNTU	7.4
VELOCITY OF FLOW M/SEC	0
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MGL	
(I) TITRATION	
(II) Nesslerization	
HARDNESS AS CaCO ₃ MGL	102.0
TOTAL COLIFORM MPN/100ML	350.0
TOTAL DISSOLVED SOLID MGL	166.0
ARSENIC ₃ µg/L	

MICRO POLLUTANT (WATER) VALUE

CADMIUM µg/L	
COPPER µg/L	
CHROMIUM (TOTAL) µg/L	
NICKEL µg/L	
ZINC µg/L	
MERCURY µg/L	
IRON (TOTAL) µg/L	
LEAD µg/L	
BHC (TOTAL) µg/L	
DDE (TOTAL) µg/L	
DDT (TOTAL) µg/L	
ENDOSULPHAN µg/L	
DIELDRIN µg/L	
ELDRINE µg/L	
CARBAMATE µg/L	
2-4D µg/L	
MELATHION µg/L	
PARATHION µg/L	

PHYSICO-CHEMICAL PARAMETERS VALUE

FIXED DISSOLVED SOLID MG/L	110.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	
PHOSPHATE MG/L	1.3
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	8.8
TOTAL SUSPENDED SOLID MG/L	4.0
POTASSIUM MG/L	0.23
FLUORIDE MG/L	
ARSENIC ₃ µg/L	
CADMIUM µg/KG	

MICRO POLLUTANT (SEDIMENT) VALUE

COPPER µg/L	
CHROMIUM (TOTAL) µg/KG	
NICKEL µg/L	
ZINC µg/L	
MERCURY µg/L	
IRON (TOTAL) MG/KG	
LEAD µg/KG	
BHC (TOTAL) µg/L	
DDE (TOTAL) µg/L	
DDT (TOTAL) µg/L	
ENDOSULPHAN µg/L	
DIELDRIN µg/L	
ELDRINE µg/L	
CARBAMATE µg/L	
2-4D µg/L	
MELATHION µg/L	
PARATHION µg/L	

BIO MONITORING VALUE

SAPROBITY	
DIVERSITY INDEX	
P/R RATIO	

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Billing Pro-forme for MINARs for the Month of September 2017

Station Name	Station Code	Monitoring Frequency	pH	Temperature	Dissolved Oxygen	DO	BOD	TSS	TP	Ammonia Nitrate (NO ₃)	Nitrite (NO ₂)	Chloride	Sulfate	Calcium	Magnesium	Hardness	Total Solids	Calcium	TP	TSS	Phosphate	Temp.	NH ₄	Field Observation	Chloride	Sodium	Potassium	Copper	Chromium	Nickel	Iron	Lead	Cadmium		
River Mahanadi at Rajim	1099	M	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
River Mahanadi at Rudra Jeev Dharmhari	1264	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
River Kharon at Bhangaroon	1265	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
River Saktiadi at Simga	1206	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
River Nikharadi at Aung	1832	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
River Mahanadi at Sihava Dharmhari	1851	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
River Kharon at Bendi	1853	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Bore well Kawabhat Raipur	1621	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	
Bore well Taibandh Raipur	1620	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA
Total Sample																																			
Rate in Rs			45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Amount			45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45

Total Analysis Charges Rs.	1500=00
Sampling Charges @ Rs. 2200× per Sample	2200=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200× per Sample	200=00
Total Amount Rs.	3900=00

Rs. Three Thousand Nine Hundred Only

Analyzed by

Chemist

Scientist

Regional Officer



3

क्षेत्रीय कार्यालय
छ.ग. पर्यावरण संरक्षण मण्डल
कबीर नगर व्यवसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 1135/क्षेका/वैज्ञा/छ.प.सं.मं/2017 रायपुर दिनांक 03/11/2017

प्रति,

सदस्य सचिव महोदय,
छ.ग. पर्यावरण संरक्षण मंडल,
मंडल मुख्यालय, नया रायपुर (छ.ग.)



विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनों की विश्लेषण रिपोर्ट माह अक्टूबर 2017.
महोदय,

उपरोक्त विषयांतर्गत माह अक्टूबर 2017 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल स्रोतों के जल नमूनों का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

क्र.	जल नमूने का विवरण	स्टेशन क्र.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।
02	महानदी रुद्री जलाशय, ग्राम रुद्री (धमतरी जलाशय के उपरी भाग)	1264	रिपोर्ट संलग्न है।
03	खारून नदी भाटागांव, रायपुर (वाटर सप्लाई इन्टेकवेल के समीप)	1265	रिपोर्ट संलग्न है।
04	शिवनाथ नदी सिमगा (सिमगा-बेमेतरा रोड ब्रिज के समीप)	1266	रिपोर्ट संलग्न है।
05	खारून नदी बेन्द्री (वाटर सप्लाई इन्टेकवेल के समीप)	1853	रिपोर्ट संलग्न है।
06	महानदी सिहावा (उदगम स्थल)	1851	रिपोर्ट संलग्न है।
07	महानदी आरंग (रोड ब्रिज के समीप)	1852	रिपोर्ट संलग्न है।
08	बोरवेल न्यू एच.आई.जी.-11, टाटीबंध, रायपुर	1620	रिपोर्ट संलग्न है।
09	बोरवेल मेसर्स प्रकृति इण्डस्ट्रीज, रावांभाठा, रायपुर	1621	रिपोर्ट संलग्न है।

उपरोक्तानुसार।

CE(1/C) / ACE(R/L)
SE(B/M/S) / EE / CC
PRO / SO(A/C) / Stf.O / SO-WI

MEMBER SECRETARY

क्षेत्रीय अधिकारी

क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE		1	0	9	9	1	0	1	7	1	5	4	0
1.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	4	1	0	1	0	1	7	1	5	4	0
2.	WEATHER	Cloudy											
3.	APPROX. DEPTH OF MAIN STREAM	√50-100 cm											
4.	COLOUR & INTENSITY	√Clear Turbid Green Brown											
5.	ODOUR	√None fishy H ₂ S Other											
6.	VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	√None Moderate High											
7.	HUMAN ACTIVITIES AROUND STATION	Cattle √Inleton Forming D/s of town or Industrial area Pilgrim Centre / Bathing Ghat											
8.	LOCATION DETAIL	MINDAT / GLOWDAT : RIVER MAHANADI AT RAJIM											
9.		NEAR ROAD BRIDGE											
		TYPE : RIVER											
		COMPLETED BY : K.C.Sahu (Chemist)											
		VERIFIED BY : Scientist											
		AGENCY : REGIONAL OFFICE CHHATTISGARH ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)											

PHYSICO-CHEMICAL PARAMETERS VALUE MICRO POLLUTANT (WATER) VALUE MICRO POLLUTANT (SEDIMENT) VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)	VALUE	MICRO POLLUTANT (SEDIMENT)	VALUE
TEMPERATURE °C	24.10	ARSENIC, µg/L		ARSENIC, µg/L	
pH	7.72	CADMIUM, µg/L		CADMIUM, µg/KG	
CONDUCTIVITY µS/CM	3220	COPPER, µg/L		COPPER, µg/L	
ALKALINITY MG/L (TOTAL)		CHROMIUM (TOTAL), µg/L		CHROMIUM (TOTAL), µg/KG	
(I) ELECTROMETRIC		NICKEL, µg/L		NICKEL, µg/L	
(II) VISUAL TITRATION	1300	ZINC, µg/L		ZINC, µg/L	
NITROGEN (NO ₃) MG/L	16	MERCURY, µg/L		MERCURY, µg/L	
DISSOLVED OXYGEN MG/L	7.4	IRON (TOTAL), µg/L		IRON (TOTAL), MG/KG	
BOD MG/L	2.1	LEAD, µg/L		LEAD, µg/KG	
COD MG/L	24.64	BHC (TOTAL), µg/L		BHC (TOTAL), µg/L	
CHLORIDE MG/L	340	DDT (TOTAL), µg/L		DDT (TOTAL), µg/L	
(I) ARGENTOMETRIC		ENDOSULPHAN, µg/L		ENDOSULPHAN, µg/L	
(II) MERCURIMATRIC		DIELDRIN, µg/L		DIELDRIN, µg/L	
SULPHATE MG/L		ELDRINE, µg/L		ELDRINE, µg/L	
(I) GRAVIMATRIC	140	CARBAMATE, µg/L		CARBAMATE, µg/L	
(II) TURBIDITY MATRIC	160	2-4D, µg/L		2-4D, µg/L	
SODIUM MG/L	264	MELATHION, µg/L		MELATHION, µg/L	
CALCIUM as CaCO ₃ MG/L	106	PARATHION, µg/L		PARATHION, µg/L	
MAGNESIUM as CaCO ₃ MG/L	106				
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M ³ /S					
PHYSICO-CHEMICAL PARAMETERS	VALUE	PHYSICO-CHEMICAL PARAMETERS	VALUE	BIO MONITORING	VALUE
TURBIDITY JTUNTU	720	FIXED DISSOLVED SOLID MG/L	1020	SAPROBITY	
VELOCITY OF FLOW M/SEC		AMMONIA NITROGEN MG/L		DIVERSITY INDAX	
(I) CURRENT METER		(I) COLOURIMETRIC MG/L		P/R RATIO	
(II) FLOAL		(II) DISTILLATION TITRATION MG/L			
(III) CHEMICAL		BORAN DISSOLVED MG/L	22		
TOTAL KJELDAHAL NITROGEN MG/L		PHOSPHATE MG/L			
(I) TITRATION		NITRATE (NO ₃) MG/L			
(II) NESSELERIZATION		PHENOLPHTHALEIN ALKALINITY MG/L	820		
HARDNESS AS CaCO ₃ MG/L	2400	TOTAL SUSPENDED SOLID MG/L	50		
TOTAL COLIFORM MPN/100ML	1640	POTASSIUM MG/L	022		
TOTAL DISSOLVED SOLID MG/L		FLUORIDE MG/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

✓ MINARS/GEMS

1. STATION CODE	1	2	6	4						
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	4	1	0	1	7	1	4	3	0
3. WEATHER	Cloudy	✓Clear	Windy					Raining		
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	✓50-100 cm	> 100 cm					Flood		
5. COLOUR & INTENSITY	✓Clear	Turbid	Green					Brown		
6. ODOUR	✓None	fishy	H ₂ S					Other		
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle									
8. HUMAN ACTIVITIES AROUND STATION	✓U/s of town or Industrial area									
9. LOCATION DETAIL	Pilgrim Centre / Bathing Ghat									

MINDAT / GLOWDAT	
STATION	: RIVER MAHANADI AT RUDRI DAM,
TYPE	: U/S RESERVOIR, DHAMTARI
COMPLETED BY	: RIVER WATER
VERIFIED BY	: K. C. Sahu (Chemist)
AGENCY	: Scientist
	: REGIONAL OFFICE CHHATTISGARH
	: ENVIRONMENT CONSERVATION
	: BOARD RAIPUR (C.G.)

PHYSICO-CHEMICAL PARAMETERS

	VALUE
TEMPERATURE °C	24.0
pH	7.52
CONDUCTIVITY µS/CM	412.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	118.0
NITROGEN (NO ₃) MG/L	1.8
DISSOLVED OXYGEN MG/L	7.2
BOD MG/L	2.2
COD MG/L	3.246
CHLORIDE MG/L	
(I) ARGENTOMETRIC	35.0
(II) MERCURIMATRIC	
SULPHATE MG/L	
(I) GRAVIMATRIC	16.0
(II) TURBIDITY MATRIC	18.0
SODIUM MG/L	27.2
CALCIUM as CaCO ₃ MG/L	8.29
MAGNESIUM as CaCO ₃ MG/L	
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS	
TURBIDITY JT/NTU	68.0
VELOCITY OF FLOW M/SEC	
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) NESSELERIZATION	
HARDNESS AS CaCO ₃ MG/L	102.0
TOTAL COLIFORM MPN/100ML	300.0
TOTAL DISSOLVED SOLID MG/L	216.0
ARSENIC, µg/L	
CADMIUM, µg/L	

MICRO POLLUTANT (WATER)

	VALUE
COPPER, µg/L	
CHROMIUM (TOTAL), µg/L	
NICKEL, µg/L	
ZINC, µg/L	
IRON (TOTAL), µg/L	
LEAD, µg/L	
BHC (TOTAL), µg/L	
D:PT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DELDRIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	
PHYSICO-CHEMICAL PARAMETERS	
FIXED DISSOLVED SOLID MG/L	146.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	2.6
PHOSPHATE MG/L	
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	98.0
TOTAL SUSPENDED SOLID MG/L	8.0
POTASSIUM MG/L	0.6
FLUORIDE MG/L	
ARSENIC, µg/L	
CADMIUM, µg/KG	
COPPER, µg/L	
CHROMIUM (TOTAL), µg/KG	
NICKEL, µg/L	

MICRO POLLUTANT (SEDIMENT)

	VALUE
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), MG/KG	
LEAD, µg/KG	
BHC (TOTAL), µg/L	
D:PT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DELDRIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	
BIO MONITORING	
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

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18

8

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT									
	1	2	6	5	1	7	1	3	3	0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	6	1	0	1	0	1	3	3	0
3. WEATHER	Cloudy	√Clear	Windy	Raining	< 50 cm	√50-100 cm	> 100 cm	Flood		
4. APROX. DEPTH OF MAIN STREAM	√Clear	Turbid	Green	Brown	√None	fishy	H ₂ S	Other		
5. COLOUR & INTENSITY	√None	melon	Forming	High						
6. ODOUR	Cattle	√U/s of town or Industrial area	D/s of Town or Industrial area	√Other						
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT										
8. HUMAN ACTIVITIES AROUND STATION										
9. LOCATION DETAIL										

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	4	0
pH	7	6	2
CONDUCTIVITY μS/CM	2	6	8
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	1	4
NITROGEN (NO ₃) MG/L	1	1	1
DISSOLVED OXYGEN MG/L	7	6	
BOD MG/L	2	1	
COD MG/L	1	6	6
CHLORIDE MG/L			2
(I) ARGENTOMETRIC	2	8	0
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMATRIC			
(II) TURBIDITY MATRIC	1	2	0
SODIUM MG/L	1	6	0
CALCIUM as CaCO ₃ MG/L	2	6	6
MAGNESIUM as CaCO ₃ MG/L	6	1	0
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

PHYSICO-CHEMICAL PARAMETERS VALUE

TURBIDITY JTU/NTU	3	2	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION			
HARDNESS AS CaCO ₃ MG/L	1	0	6
TOTAL COLIFORM MPN/100 ML	2	4	0
TOTAL DISSOLVED SOLID MG/L	1	7	7
ARSENIC, μg/L			

MICRO POLLUTANT (WATER) VALUE

CADMIUM, μg/L					
COPPER, μg/L					
CHROMIUM (TOTAL), μg/L					
NICKEL, μg/L					
MERCURY, μg/L					
IRON (TOTAL), μg/L					
LEAD, μg/L					
BHC (TOTAL), μg/L					
DDT (TOTAL), μg/L					
ENDOSULPHAN, μg/L					
DIELDRIN, μg/L					
ELDRINE, μg/L					
CARBAMATE, μg/L					
2-4D, μg/L					
MELATHION, μg/L					
PARATHION, μg/L					

PHYSICO-CHEMICAL PARAMETERS VALUE

FIXED DISSOLVED SOLID MG/L	6	4	0
AMMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L			
PHOSPHATE MG/L	1	2	
NITRATE MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	4	3	0
POTASSIUM MG/L	6	0	
FLUORIDE MG/L	0	6	
ARSENIC, μg/L			
CADMIUM, μg/KG			
COPPER, μg/L			

MICRO POLLUTANT (SEDIMENT) VALUE

CHROMIUM (TOTAL), μg/KG					
NICKEL, μg/L					
ZINC, μg/L					
MERCURY, μg/L					
IRON (TOTAL), Mg/KG					
LI-AD, μg/KG					
BHC (TOTAL), μg/L					
DDT (TOTAL), μg/L					
ENDOSULPHAN, μg/L					
DIELDRIN, μg/L					
ELDRINE, μg/L					
CARBAMATE, μg/L					
2-4D, μg/L					
MELATHION, μg/L					
PARATHION, μg/L					

BIO MONITORING VALUE

SAPROBITY					
DIVERSITY INDAX					
P/R RATIO					

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√MINARS/GEMS

1. STATION CODE	1	2	6	6	1	2	5	0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	1	1	0	1	7	1	2
3. WEATHER	Cloudy	√Clear	Windy	Raining	Flood			
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	√50-100 cm	> 100 cm					
5. COLOUR & INTENSITY	√Clear	Turbid	Green	Brown	Other			
6. ODOUR	√None	fishy	H ₂ S					
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	√None	None	Moderate	High	Other			
8. HUMAN ACTIVITIES AROUND STATION	Cattle	U/s of town or Industrial area	D/s of Town or Industrial area	Pilgrim Centre / √Bathing Ghat				
9. LOCATION DETAIL	MINDAT / GILOWDAT							
	STATION : RIVER SHEONATH AT SIMGA							
	TYPE : RIVER							
	COMPLETED BY : K.C.Sahu (Chemist)							
	VERIFIED BY : Scientist							
	AGENCY : REGIONAL OFFICE CHHATTISGARH							
	ENVIRONMENT CONSERVATION BOARD RAIPUR (C.G)							

PHYSICO-CHEMICAL PARAMETERS

	2	3	0
TEMPERATURE °C	7	8	6
pH	4	8	4
CONDUCTIVITY μS/CM	1	8	0
ALKALINITY MG/L (TOTAL)	1	8	0
(I) ELECTROMETRIC	2	2	
(II) VISUAL TITRATION	6	3	
NITROGEN (NO ₂) MG/L	3	2	
DISSOLVED OXYGEN MG/L	4	4	8
BOD MG/L	3	6	0
COD MG/L			
CHLORIDE MG/L			
(I) ARGENTOMETRIC			
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC	1	7	0
(II) TURBIDITY MATRIC	1	4	0
SODIUM MG/L	3	1	2
CALCIUM as CaCO ₃ MG/L	9	2	6
MAGNESIUM as CaCO ₃ MG/L			
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

PHYSICO-CHEMICAL PARAMETERS

	1	3	2	0
TURBIDITY JTU/NTU	1	3	2	0
VELOCITY OF FLOW M/SEC				
(I) CURRENT METER				
(II) FLOWAL				
(III) CHEMICAL				
TOTAL KJELDAHAL NITROGEN MG/L				
(I) TITRATION				
(II) NESSELERIZATION				
HARDNESS AS CaCO ₃ MG/L	1	1	6	0
TOTAL COLIFORM MPN/100ML	3	0	0	0
TOTAL DISSOLVED SOLID MG/L	1	9	2	0

MICRO POLLUTANT (WATER)

ARSENIC, μg/L	
CADMUM, μg/L	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	

PHYSICO-CHEMICAL PARAMETERS

FIXED DISSOLVED SOLID MG/L	1	3	2	0
AMMONIA NITROGEN MG/L				
(I) COLOURIMETRIC MG/L				
(II) DISTILLATION TITRATION MG/L				
BORAN DISSOLVED MG/L				
PHOSPHATE MG/L	1	3		
NITRATE (NO ₃) MG/L				
PHENOLPHALEIN ALKALINITY MG/L				
TOTAL SUSPENDED SOLID MG/L	1	1	0	0
POTASSIUM MG/L	4	0		
FLUORIDE MG/L	0	8		
ARSENIC, μg/L				
CADMUM, μg/L				
COPPER, μg/L				

MICRO POLLUTANT (SEDIMENT)

CHROMIUM (TOTAL), μg/KG	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), MG/KG	
LEAD, μg/KG	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	

BIO MONITORING

SAPROBITY	
DIVERSITY INDAX	
P/k RATIO	

Signature

Signature

Signature

Signature

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT									
	1	2	3	4	5	6	7	8	9	10
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	2	3	4	5	6	7	8	9	10
3. WEATHER	Cloudy	Clear	>100 cm	Windy	>100 cm	Raining				
4. APROX. DEPTH OF MAIN STREAM	<50 cm	>50-100 cm				Flood				
5. COLOUR & INTENSITY	Clear	Turbid	Green	Brown						
6. ODOUR	None	Fishy	H ₂ S	Other						
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	None	melon	Moderate	High						
8. HUMAN ACTIVITIES AROUND STATION	Cattle	Industrial area	D/s of Town or Industrial area	Other						
9. LOCATION DETAIL	Pilgrim Centre / Bathing Ghat									

STATION	: RIVER KHARON AT BENDRI VILLAGE
TYPE	: RIVER
COMPLETED BY	: K.C.Sahu (Chemist)
VERIFIED BY	: Scientist
AGENCY?	: REGIONAL OFFICE CHHATTISGARH
	: ENVIRONMENT CONSERVATION
	: BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	5	0
pH	7	7	4
CONDUCTIVITY µS/CM	2	9	4
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	2	8
NITROGEN (NO ₂) MG/L	1	4	
DISSOLVED OXYGEN MG/L	6	8	
BOD MG/L	2	8	
COD MG/L	3	4	0
CHLORIDE MG/L			
(I) ARGENTOMETRIC	3	7	0
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMATRIC			
(II) TURBIDITY MATRIC	1	6	0
SODIUM MG/L	1	8	0
CALCIUM as CaCO ₃ MG/L	3	1	2
MAGNESIUM as CaCO ₃ MG/L	9	0	2
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JT/NTU	4
VELOCITY OF FLOW M/SEC	8
(I) CURRENT METER	0
(II) FLOW	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	2
(I) TITRATION	
(II) NESSELERIZATION	
HARDNESS AS CaCO ₃ MG/L	6
TOTAL COLIFORM MPN/100 ML	8
TOTAL DISSOLVED SOLID MG/L	0
ARSENIC, µg/L	6

MICRO POLLUTANT (WATER) VALUE

CADMIUM, µg/L	
COPPER, µg/L	
CHROMIUM (TOTAL), µg/L	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), µg/L	
LEAD, µg/L	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	

PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	8
AMMONIA NITROGEN MG/L	6
(I) COLOURIMETRIC MG/L	0
(II) DISTILLATION TITRATION MG/L	
BORON DISSOLVED MG/L	
PHOSPHATE MG/L	2
NITRATE (NO ₃) MG/L	2
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	6
POTASSIUM MG/L	8
FLUORIDE MG/L	0
ARSENIC, µg/L	6
CADMIUM, µg/L	6

MICRO POLLUTANT (SEDIMENT) VALUE

COPPER, µg/L	
CHROMIUM (TOTAL), µg/KG	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), MG/KG	
LEAD, µg/KG	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	

BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

28

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	8	5	1	MINDAT / GLOWDAT							
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	4	1	0	1	7	1	3	1	5	STATION	RIVER MAHANADI AT SIHAWA
3. WEATHER	Cloudy		√Clear	Windy	Raining	ORIGIN POINT OF RIVER MAHANADI						
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	√Clear	Turbid	> 100 cm	Green	Brown	RIVER					
5. COLOUR & INTENSITY	√None	fishy	H ₂ S	Other	COMPLETED BY							
6. ODOUR	√None	moderate	High	Other	K.C.Sahu (Chemist)							
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle	√None	Industrial area	√Other	VERIFIED BY							
8. HUMAN ACTIVITIES AROUND STATION	√U/s of town or Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat	SCIENTIST								
9. LOCATION DETAIL	REGIONAL OFFICE CHHATTISGARH											
	ENVIRONMENT CONSERVATION											
	BOARD RAIPUR (C G)											

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	3	0
pH	7	6	4
CONDUCTIVITY μS/CM	4	1	0
ALKALINITY MG/L (TOTAL)			
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	4	8
NITROGEN (NO ₂) MG/L	1	2	
DISSOLVED OXYGEN MG/L	6	7	
BOD MG/L	2	3	
COD MG/L	3	6	0
CHLORIDE MG/L			
(I) ARGENTOMETRIC	4	4	0
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMATRIC			
(II) TURBIDITY MATRIC	1	4	0
SODIUM MG/L	1	9	0
CALCIUM as CaCO ₃ MG/L	3	2	8
MAGNESIUM as CaCO ₃ MG/L	1	0	7
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY JT/NTU	4	6	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KjELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION	1	1	8
HARDNESS AS CaCO ₃ MG/L	1	7	0
TOTAL COLIFORM MPN/100ML	1	1	2
TOTAL DISSOLVED SOLID MG/L	1	1	2

MICRO POLLUTANT (WATER) VALUE

ARSENIC, μg/L			
CADMIIUM, μg/L			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/L			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), μg/L			
LEAD, μg/L			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
FIXED DISSOLVED SOLID MG/L	1	1	0
AMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L	2	4	
PHOSPHATE MG/L			
NITRATE (NO ₃) MG/L			
PHENOLPHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	8	6	0
POTASSIUM MG/L	7	0	
FLUORIDE MG/L	0	8	
ARSENIC, μg/L			

MICRO POLLUTANT (SEDIMENT) VALUE

CADMIIUM, μg/KG		
COPPER, μg/L		
CHROMIUM (TOTAL), μg/KG		
NICKEL, μg/L		
ZINC, μg/L		
MERCURY, μg/L		
IRON (TOTAL), MG/KG		
LEAD, μg/KG		
BHC (TOTAL), μg/L		
DDT (TOTAL), μg/L		
ENDOSULPHAN, μg/L		
DIELDRIN, μg/L		
ELDRINE, μg/L		
CARBAMATE, μg/L		
2-4D, μg/L		
MELATHION, μg/L		
PARATHION, μg/L		
BIO MONITORING		VALUE
SAPROBITY		
DIVERSITY INDAX		
P/R RATIO		

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT											
	1	2	3	4	5	6	7	8	9	10		
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	4	1	0	1	0	1	7	1	6	3	0
3. WEATHER	Raining											
4. APPROX. DEPTH OF MAIN STREAM	>100 cm											
5. COLOUR & INTENSITY	Green											
6. ODOUR	H ₂ S											
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Moderate											
8. HUMAN ACTIVITIES AROUND STATION	Other											
9. LOCATION DETAIL	Pilgrim Centre / Bathing Ghat											

STATION : RIVER MAHANADI AT ARANG
 TYPE : RIVER
 COMPLETED BY : K.C.Sahu (Chemist)
 VERIFIED BY : Scientist
 AGENCY : REGIONAL OFFICE CHHATTISGARH ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE MICRO POLLUTANT (WATER) VALUE MICRO POLLUTANT (SEDIMENT) VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)	VALUE	MICRO POLLUTANT (SEDIMENT)	VALUE
TEMPERATURE °C	24.0	ARSENIC, µg/L		ARSENIC, µg/L	
pH	7.52	CADMIUM, µg/L		CADMIUM, µg/KG	
CONDUCTIVITY µS/CM	480.0	COPPER, µg/L		COPPER, µg/L	
ALKALINITY MG/L (TOTAL)		CHROMIUM (TOTAL), µg/L		CHROMIUM (TOTAL), µg/KG	
(I) ELECTROMETRIC		NICKEL, µg/L		NICKEL, µg/L	
(II) VISUAL TITRATION	132.0	MERCURY, µg/L		MERCURY, µg/L	
NITROGEN (NO ₂) MG/L	2.3	IRON (TOTAL), µg/L		IRON (TOTAL), Mg/KG	
DISSOLVED OXYGEN MG/L	6.8	LEAD, µg/L		LEAD, µg/KG	
BOD MG/L	2.4	BHC (TOTAL), µg/L		BHC (TOTAL), µg/L	
COD MG/L	46.0	DDI (TOTAL), µg/L		DDI (TOTAL), µg/L	
CHLORIDE MG/L		DIETHYLDRIN, µg/L		DIETHYLDRIN, µg/L	
(I) ARGENTOMETRIC	42.0	ELDRINE, µg/L		ELDRINE, µg/L	
(II) MERCURIMATRIC		CARBAMATE, µg/L		CARBAMATE, µg/L	
SULPHATE MG/L		2-4D, µg/L		2-4D, µg/L	
(I) GRAVIMETRIC	11.0	MELATHION, µg/L		MELATHION, µg/L	
(II) TURBIDITY MATRIC		PARATHION, µg/L		PARATHION, µg/L	
SODIUM MG/L	22.0				
CALCIUM as CaCO ₃ MG/L	26.6				
MAGNESIUM as CaCO ₃ MG/L	9.62				
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M ³ /S					
PHYSICO-CHEMICAL PARAMETERS VALUE					
TURBIDITY JTU/NTU	78.0	PHYSICO-CHEMICAL PARAMETERS	VALUE		
VELOCITY OF FLOW M/SEC		FIXED DISSOLVED SOLID MG/L	116.0		
(I) CURRENT METER		AMMONIA NITROGEN MG/L			
(II) FLOAL		(I) COLOURIMETRIC MG/L			
(III) CHEMICAL		(II) DISTILLATION TITRATION MG/L			
TOTAL KJELDAHAL NITROGEN MG/L		BORAN DISSOLVED MG/L	2.4		
(I) TITRATION		PHOSPHATE MG/L			
(II) Nesslerization		NITRATE (NO ₃) MG/L			
HARDNESS AS CaCO ₃ MG/L	111.0	PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL COLIFORM MPN/100ML	3510.0	TOTAL SUSPENDED SOLID MG/L	87.0		
TOTAL DISSOLVED SOLID MG/L	1819.0	POTASSIUM MG/L	6.0		
		FLUORIDE MG/L	0.5		

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE		1	6	2	0	MINDAT / GLOWDAT							
1.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	3	1	0	1	7	1	3	0	0	STATION	: BORE WELL WATER
2.	WEATHER	Cloudy	√Clear	Windy	Raining							TYPE	: BORE WELL WATER
3.	APPROX. DEPTH OF MAIN STREAM	<50 cm	>50-100 cm	>100 cm	Flood							COMPLETED BY	: K.C.Sahu (Chemist)
4.	COLOUR & INTENSITY	√Clear	Turbid	Green	Brown							VERIFIED BY	: Scientist
5.	ODOUR	√None	fishy	H ₂ S	Other							AGENCY	: REGIONAL OFFICE CHHATTISGARH
6.	VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	√None	melon	Forming	Other								: ENVIRONMENT CONSERVATION
7.	HUMAN ACTIVITIES AROUND STATION	Cattle	U/s of town or Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat								: BOARD RAIPUR (C G)
8.	LOCATION DETAIL												

PHYSICO-CHEMICAL PARAMETERS

PARAMETERS	VALUE
TEMPERATURE °C	23.0
pH	7.86
CONDUCTIVITY μS/CM	568.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	152.0
NITROGEN (NO ₂) MG/L	1.9
DISSOLVED OXYGEN MG/L	0.4
BOD MG/L	0.2
COD MG/L	8.2
CHLORIDE MG/L	
(I) ARGENTOMETRIC	36.0
(II) MERCURIMETRIC	
SULPHATE MG/L	
(I) GRAVIMETRIC	
(II) TURBIDITY MATRIC	32.0
SODIUM MG/L	18.0
CALCIUM as CaCO ₃ MG/L	44.8
MAGNESIUM as CaCO ₃ MG/L	11.7
FECAL COLIFORM MPN/100 ML INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JTUNTU	13.0
VELOCITY OF FLOW M/SEC	
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KIELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) NESSELERIZATION	
HARDNESS AS CaCO ₃ MG/L	160.0
TOTAL COLIFORM MPN/100 ML	4.0
TOTAL DISSOLVED SOLID MG/L	364.0
ARSENIC, μg/L	

MICRO POLLUTANT (WATER)

PARAMETERS	VALUE
CADMIUM, μg/L	
COPPER, μg/L	
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
LEAD, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	184.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	
PHOSPHATE MG/L	0.8
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	24.0
POTASSIUM MG/L	9.0
FLUORIDE MG/L	0.2
ARSENIC, μg/L	
CADMIUM, μg/L	
COPPER, μg/L	

MICRO POLLUTANT (SEDIMENT)

PARAMETERS	VALUE
CHROMIUM (TOTAL), μg/L	
NICKEL, μg/L	
ZINC, μg/L	
MERCURY, μg/L	
IRON (TOTAL), μg/L	
CYANIDE, μg/L	
BHC (TOTAL), μg/L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

8

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	6	2	1	MINDAT / GLOWDAT STATION						
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	7	1	0	1	7	1	3	0	0	Bore well water in the Premises of Prakriti Industries, Rawabhata, Raipur
3. WEATHER	Cloudy	√Clear	Windy	Raining	Office Premises						
4. APROX. DEPTH OF MAIN STREAM	< 50 cm	√50-100 cm	> 100 cm	Flood	BORE WELL WATER						
5. COLOUR & INTENSITY	√Clear	Turbid	Green	Brown	COMPLETED BY : K.C.Sahu (Chemist)						
6. ODOUR	√None	fishy	H ₂ S	Other	VERIFIED BY : Scientist						
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None	√None	Moderate	High	AGENCY : REGIONAL OFFICE CHHATTISGARH						
8. HUMAN ACTIVITIES AROUND STATION	Cattle	melon	Forming	Other	ENVIRONMENT CONSERVATION						
9. LOCATION DETAIL	U/s of town or Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat		BOARD RAIPUR (C G)						

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	24	0
pH	7.2	6
CONDUCTIVITY μS/CM	56	40
ALKALINITY MG/L (TOTAL)		
(I) ELECTROMETRIC		
(II) VISUAL TITRATION	19	0
NITROGEN (NO ₃) MG/L	2	2
DISSOLVED OXYGEN MG/L	0	6
BOD MG/L	0	4
COD MG/L	8	8
CHLORIDE MG/L		
(I) ARGENTOMETRIC	4	2
(II) MERCURIMATRIC		
SULPHATE MG/L		
(I) GRAVIMETRIC	3	6
(II) TURBIDITY MATRIC		
SODIUM MG/L	1	8
CALCIUM as CaCO ₃ MG/L	4	5
MAGNESIUM as CaCO ₃ MG/L	1	4
FECAL COLIFORM MPN/100 ML		
INSTANTANEOUS DISCHARGE M ³ /S		
PHYSICO-CHEMICAL PARAMETERS VALUE		
TURBIDITY JT/NTU	1	4
VELOCITY OF FLOW M/SEC		
(I) CURRENT METER		
(II) FLOAL		
(III) CHEMICAL		
TOTAL KJELDAHAL NITROGEN MG/L		
(I) TITRATION		
(II) NITROGENIZATION		
HARDNESS AS CaCO ₃ MG/L	1	7
TOTAL COLIFORM MPN/100 ML	2	0
TOTAL DISSOLVED SOLID MG/L	3	7

MICRO POLLUTANT (WATER) VALUE

ARSENIC, μg/L		
CADMIUM, μg/L		
COPPER, μg/L		
CHROMIUM (TOTAL), μg/L		
NICKEL, μg/L		
ZINC, μg/L		
MERCURY, μg/L		
IRON (TOTAL), μg/L		
LEAD, μg/L		
BHC (TOTAL), μg/L		
DDT (TOTAL), μg/L		
ENDOSULPHAN, μg/L		
DIELDRIN, μg/L		
ELDRINE, μg/L		
CARBAMATE, μg/L		
2-4D, μg/L		
MELATHION, μg/L		
PARATHION, μg/L		
PHYSICO-CHEMICAL PARAMETERS VALUE		
FIXED DISSOLVED SOLID MG/L	1	9
AMMONIA NITROGEN MG/L	4	0
(I) COLOURIMETRIC MG/L		
(II) DISTILLATION TITRATION MG/L		
BORON DISSOLVED MG/L		
PHOSPHATE MG/L	0	8
NITRATE MG/L		
PHENOLPHTHALEIN ALKALINITY MG/L		
TOTAL SUSPENDED SOLID MG/L	2	4
POTASSIUM MG/L	9	0
FLUORIDE MG/L	0	1
ARSENIC, μg/L		
CADMIUM, μg/L		

MICRO POLLUTANT (SEDIMENT) VALUE

COPPER, μg/L		
CHROMIUM (TOTAL), μg/L		
NICKEL, μg/L		
ZINC, μg/L		
MERCURY, μg/L		
IRON (TOTAL), μg/L		
CYANIDE, μg/L		
BHC (TOTAL), μg/L		
DDT (TOTAL), μg/L		
ENDOSULPHAN, μg/L		
DIELDRIN, μg/L		
ELDRINE, μg/L		
CARBAMATE, μg/L		
2-4D, μg/L		
MELATHION, μg/L		
PARATHION, μg/L		
BIO MONITORING VALUE		
SAPROBITY		
DIVERSITY INDAX		
P/R RATIO		

Fds

CF

8

Billing Pro-forma for MINARS for the Month of October 2017

Station Name	Station Code	Monitoring Frequency	pH	Conductivity	Alkalinity	Nitrite (NO ₂)	Nitrate (NO ₃)	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coliform	TDS	FDS	TSS	Phosphate	Temp	NH ₃	Field Observation	Fluoride	Sodium	Potassium	Copper	Chromium	Nickel	Iron	Lead	Boron
River Mahanadi at Rajim	1099	M	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	
River Mahanadi at Rudri dam Dhamtari	1264	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
River Kharoon at Bhatagaon	1265	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
River Sheonath at Simga	1266	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
River Mahanadi at Arang	1852	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
River Mahanadi at Sihawa Dhamtari	1851	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
River Kharoon at Bendri	1853	Q	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
Bore well Rawabhata Raipur	1621	H/A	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
Bore well Tatibandh Raipur	1620	H/A	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0		
Total Sample			9	9	9	9	0	9	9	9	9	9	9	9	0	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0		
Rate in Rs			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	135	135	105	150	75		
Amount			405	405	405	405	-	405	1350	1035	405	675	405	405	-	405	675	675	675	675	675	135	1850	675	405	405	-	-	-	-	-		

Total Analysis Charges Rs.	13500=00
Sampling Charges @ Rs. 2200×9 per Sample	19800=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200×9 per Sample	1800=00
Total Amount Rs.	35100=00

Rs. Thirty Five Thousand One Hundred Only

Fds
Chemist

Ch
Scientist

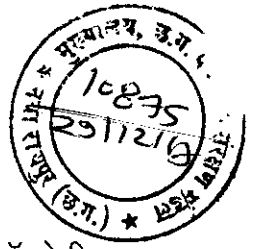
[Signature]
Regional Officer



क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल

कबीर नगर व्यवसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)



क्रमांक 5006 / वैज्ञा / क्षेका / छ.प.सं.मं / 2017 रायपुर दिनांक 6 / 12 / 2017

प्रति,

सदस्य सचिव,

छ.ग. पर्यावरण संरक्षण मंडल,
मुख्यालय, नया रायपुर (छ.ग.)

विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूने की विश्लेषण रिपोर्ट माह नवम्बर 2017.
महोदय,

उपरोक्त विषयांतर्गत माह नवम्बर 2017 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल स्रोतों के जल नमूने का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

क्र.	जल नमूने का विवरण	स्टेशन क्र.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

Add Sec/CE(I/C)ACE(R/L)
SE(B/M/S) / SSO/EE/CC
PRO / SO (A/C) / Stf. O

MEMBER SECRETARY

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

Handwritten signature and date 21/12/17

Handwritten signature and date 21/12/17

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√MINARS/GEMS

1. STATION CODE	1	0	9	9	1	1	1	1	7	1	4	0	0	MINDAT / GLOWDAT
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	0	1	1	1	1	1	1	7	1	4	0	0	STATION : RIVER MAHANADI AT RAJIM
3. WEATHER	√Cloudy	Clear	Windy	>100 cm	Green	Brown	Other	High	√Other	NEAR ROAD BRIDGE				
4. APROX. DEPTH OF MAIN STREAM	√< 50 cm	√Turbid	fishy	√None	Moderate	High	√Other	RIVER						
5. COLOR & INTENSITY	Clear	√None	fishy	√None	Moderate	High	√Other	K.C. Sahu (Chemist), S.K.Khanna (Lab.Asst. Grade-II)						
6. ODOUR	√None	fishy	√None	Moderate	High	√Other	Scientist							
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	REGIONAL OFFICE CHHATTISGARH													
8. HUMAN ACTIVITIES AROUND STATION	ENVIRONMENT CONSERVATION													
9. LOCATION DETAIL	BOARD RAIPUR (C G)													

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	3	0
pH	7	7	2
CONDUCTIVITY μS/CM	2	7	0
ALKALINITY MG/L (TOTAL)			
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	2	0
NITROGEN (NO ₃) MG/L	*		
DISSOLVED OXYGEN MG/L	7	2	
BOD MG/L	*		
COD MG/L	2	2	4
CHLORIDE MG/L	2	8	0
(I) ARGENTOMETRIC			
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC			
(II) TURBIDITY METRIC	*		
SODIUM MG/L	*		
CALCIUM as CaCO ₃ MG/L	2	5	6
MAGNESIUM as CaCO ₃ MG/L	9	2	6
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY JT/NTU	4	6	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION	1	0	0
HARDNESS AS CaCO ₃ MG/L	2	4	0
TOTAL COLIFORM MPN/100NL	1	5	2
TOTAL DISSOLVED SOLID MG/L			
ARSENIC, μg/L			

PHYSICO-CHEMICAL PARAMETERS VALUE

CADMIUM, μg/L			
COPPER, μg/L			
CHROMIUM (TOTAL), μg/L			
NICKEL, μg/L			
ZINC, μg/L			
MERCURY, μg/L			
IRON (TOTAL), μg/L			
LEAD, μg/L			
BHC (TOTAL), μg/L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, μg/L			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
FIXED DISSOLVED SOLID MG/L	9	6	0
AMMONIA NITROGEN MG/L			
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L			
PHOSPHATE MG/L	*		
NITRATE (NO ₃) MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	5	2	0
POTASSIUM MG/L	*		
FLUORIDE MG/L	*		
ARSENIC, μg/L			
CADMIUM, μg/KG			

MICRO POLLUTANT (WATER) VALUE

MICRO POLLUTANT (SEDIMENT) VALUE

COPPER, μg/L		
CHROMIUM (TOTAL), μg/KG		
NICKEL, μg/L		
ZINC, μg/L		
MERCURY, μg/L		
IRON (TOTAL), MG/KG		
LEAD, μg/KG		
BHC (TOTAL), μg/L		
DDT (TOTAL), μg/L		
ENDOSULPHAN, μg/L		
DELDRIN, μg/L		
ELDRINE, μg/L		
CARBAMATE, μg/L		
2-4D, μg/L		
MELATHION, μg/L		
PARATHION, μg/L		
BIO MONITORING	VALUE	
SAPROBITY		
DIVERSITY INDEX		
P/R RATIO		

Remark :- * Instrument Failure

Billing Pro-forma for MINARS for the Month of November 2017

Station Name	Station Code	Monitoring Frequency	pH	Conductivity	Alkalinity	Nitrite (NO ₂)	Nitrate (NO ₃)	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coll form	TDS	FDS	TSS	Phosphate	Temp	NH ₃	Field Observation	Fluoride	Sodium	Potassium	Copper	Chromium	Nickel	Iron	Lead	Boron			
River Mahanadi at Rajim	1099	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
River Mahanadi at Rudri dam Dhamtari	1264	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Kharon at Bhatagaon	1265	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Sheonath at Simga	1266	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Mahanadi at Arang	1852	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Mahanadi at Sihawa Dhamtari	1851	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Kharon at Bendri	1853	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bore well Rawabhata Raipur	1621	H A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bore well Tatibandh Raipur	1620	H A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total Sample			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Rate in Rs			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	135	135	135	105	150	75	75	75		
Amount			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	135	135	135	105	150	75	75	75		

Total Analysis Charges Rs.	1500=00
Sampling Charges @ Rs. 2200× per Sample	2200=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200× per Sample	200=00
Total Amount Rs.	3900=00

Rs. Three Thousand Nine Hundred Only


Chemist


Scientist


Regional Officer

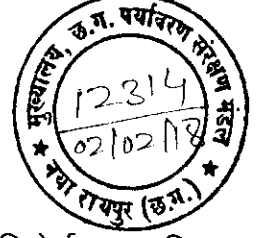


क्षेत्रीय कार्यालय
छ.ग. पर्यावरण संरक्षण मण्डल
कबीर नगर व्यावसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 5522/वैज्ञा/क्षेका/छ.प.सं.मं/2018 रायपुर दिनांक 08/01/2018

प्रति,

✓ सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मंडल,
मुख्यालय, नया रायपुर (छ.ग.)




विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूने की विश्लेषण रिपोर्ट माह दिसम्बर 2017.
महोदय,

उपरोक्त विषयांतर्गत माह दिसम्बर 2017 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल स्रोतों के जल नमूने का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

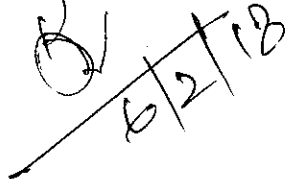
क्र.	जल नमूने का विवरण	स्टेशन क्र.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।


क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

Add Sec/CE(I/C)ACE(R/L)
SE(B/M/S) / SSO/EE/CC
PRO / SO (A/C) / Stf. O

MEMBER SECRETARY


08/2/18

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1 0 9 9			MINDAT / GLOWDAT			
	2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1 5 1 2 1 7 1 5 3 0	: RIVER MAHANADI AT RAJIM				
3. WEATHER	√Cloudy	Clear	Windy	Raining	: NEAR ROAD BRIDGE		
4. APROX. DEPTH OF MAIN STREAM	√<50 cm	50-100 cm	>100 cm	Flood	: RIVER		
5. COLOR & INTENSITY	√Clear	Turbid	Green	Brown	: K.C. Sahu (Chemist), S.K.Khanna (Lab.Asst. Grade-II)		
6. ODOUR	√None	fishy	H ₂ S	Other	: Scientist		
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT		√None	Moderate	High	: REGIONAL OFFICE CHHATTISGARH		
8. HUMAN ACTIVITIES AROUND STATION	Cattle	√None	Forming	√Other	: ENVIRONMENT CONSERVATION		
9. LOCATION DETAIL	√U/s of town or Industrial area	Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat	: BOARD RAIPUR (C G)		

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	3	0
pH	7	7	4
CONDUCTIVITY µS/CM	2	4	0
ALKALINITY MG/L (TOTAL)			
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	2	0
NITROGEN (NO ₂) MG/L	*		
DISSOLVED OXYGEN MG/L	7	2	
BOD MG/L			
COD MG/L	2	0	2
CHLORIDE MG/L			
(I) ARGENTOMETRIC	3	0	6
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC	*		
(II) TURBIDITY METRIC	*		
SODIUM MG/L			
CALCIUM as CaCO ₃ MG/L	2	6	4
MAGNESIUM as CaCO ₃ MG/L	8	2	9
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JT/NTU	4 4 0
VELOCITY OF FLOW M/SEC	
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHL NITROGEN MG/L	
(I) TITRATION	
(II) Nesslerization	
HARDNESS AS CaCO ₃ MG/L	1 0 0 0
TOTAL COLIFORM MPN/100ML	2 5 0 0
TOTAL DISSOLVED SOLID MG/L	1 4 2 0
ARSENIC, µg/L	

MICRO POLLUTANT (WATER) VALUE

MICRO POLLUTANT (WATER)	VALUE
CADMIUM, µg/L	
COPPER, µg/L	
CHROMIUM (TOTAL), µg/L	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), µg/L	
LEAD, µg/L	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIN, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	

PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	9 4 0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	*
PHOSPHATE MG/L	
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	4 2 0
TOTAL SUSPENDED SOLID MG/L	*
POTASSIUM MG/L	*
FLUORIDE MG/L	
ARSENIC, µg/L	
CADMIUM, µg/KG	

MICRO POLLUTANT (SEDIMENT) VALUE

MICRO POLLUTANT (SEDIMENT)	VALUE
COPPER, µg/L	
CHROMIUM (TOTAL), µg/KG	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), MG/KG	
LEAD, µg/KG	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIN, µg/L	
ELDRINE, µg/L	
CARB. MATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	

BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDEX	
P/R RATIO	

Remark :- * Instrument Failure

[Handwritten signatures and initials]

Billing Pro-forma for MINARS for the Month of December 2017

Station Name	Station Code	Monitoring Frequency	pH	Conductivity	Alkalinity	Nitrite (NO ₂)	Nitrate (NO ₃)	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coll form	TDS	FDS	TSS	Phosphate	Temp	NH ₃	Field Observation	Fluoride	Sodium	Potassium	Copper	Chromium	Nickel	Iron	Lead	Boron
River Mahanadi at Rajim	1099	M	1	1	1	1	*	1	1	1	1	1	1	1	*	1	1	1	1	1	1	1	*	1	1	1	*	*	*	*	*	*	*
River Mahanadi at Rudri dam Dhamtari	1264	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Kharon at Bhatagaon	1265	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Sheonath at Simga	1266	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Mahanadi at Arang	1852	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Mahanadi at Sihawa Dhamtari	1851	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
River Kharon at Bendri	1853	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bore well Rawabhata Raipur	1621	H A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Bore well Tatibandh Raipur	1620	H A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total Sample			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Rate in Rs			45	45	45	45	45	45	150	115	45	75	45	45	105	45	75	75	75	75	75	15	45	200	75	45	135	135	105	150	75		
Amount			45	45	45	*	*	45	*	115	45	*	45	45	*	45	75	75	75	75	75	15	*	200	*	*	*	*	*	*	*	*	

Total Analysis Charges Rs.	1500=00
Sampling Charges @ Rs. 2200× per Sample	2200=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200× per Sample	200=00
Total Amount Rs.	3390=00

Rs. Three Thousand Three Hundred Ninety Only

Chemist

[Signature]
Scientist

[Signature]
Regional Officer