

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 0 5 1 8 1 2 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 $\sqrt{1}$ =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 : River Hasdeo at Champa
 TYPE : 'RIVER'
 COMPLETED BY : R. K. Ahirwar (Chemist)
 VERIFIED BY : P. S. Pandey (A.E.)
 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 6	0
pH	1 0 3 0	2 N 8	0
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 1 3 9	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 1 0 0	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 2	6
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7	5
BOD, mg/L	0 8 2 0	1 N 1	4
COD, mg/L	0 8 3 0	1 N 2 4	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 3 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 3 6	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 5	8 5
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	

ARBITRARY CODE DETERMINAND AQC FLAG VALUE

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 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 KJELDHL 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 7 9	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4	N 5 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 4
NITRITE, mg/L			1 2
Fluoride, Mg/L			


 CHEMIST


 SCIENTIST/A.E.


 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): 2 8 0 5 1 8 1 6 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. K. Ahirwar (Chemist)
 VERIFIED BY : P. S. Pandey (A.E.)
 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 3 6	0	
pH	1 0 3 0 2 N 8	5	
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 7 0	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(NO3 + NO2), mg/L	0 7 1 0 5 N 2	9	
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7	4	
BOD, mg/L	0 8 2 0 1 N 1	5	
COD, mg/L	0 8 3 0 1 N 2 0	0	
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 4 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 2	0	
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO3, mg/L	2 0 1 0 1 N 1 6	0	
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		

DETERMINDAND 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 5 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 KIELDAHL 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 7 0	0	
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 8 0	0	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 9 0	0	
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 6 3	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			

SCIENTIST / A.E.

CHEMIST

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 2 1 8

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=Highly

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

√ 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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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 6 . 0									
PH	1 0	3 0	2 N 8 . 0									
CONDUCTIVITY, μmhos/cm	0 2	0 4	1 N 1 2 3 . 0									
ALKALINITY, mg/L	1 0	1 0	1 N									
(1) ELECTROMETRIC	1 0	1 0	2 N 8 0 . 0									
(2) VISUAL TITRATION	0 7	1 0	5 N 2 . 0									
NITROGEN(NO3 + NO2), mg/L	0 8	1 0	1 N 8 . 9									
DISSOLVED OXYGEN, mg/L	0 8	2 0	1 N 1 . 0									
BOD, mg/L	0 8	3 0	1 N 8 . 0									
COD, mg/L	1 7	2 0	1 N 1 6 . 0									
CHLORIDE, mg/L	1 7	2 0	1 N 1 6 . 0									
(1) ARGENTOMETRIC	1 7	2 0	1 N 1 6 . 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 2 0 . 0									
(2) TURBIDIMETRIC	1 1	1 0	3 N									
SODIUM, mg/L	2 0	1 0	1 N 9 . 6									
CALCIUM as CaCO3, mg/L	1 2	1 0	3 N 3 . 4 1									
MAGNESIUM as CaCO3, mg/L	3 6	0 1	1 N									
FECAL COLIFORM MPN/100mg/L												
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1 6 7 N									
TURBIDITY, JTU/NTU	0	2	1 0 1 N 2 2 . 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 KJELDAHL NITROGEN, mg/L	0	7	0 0 1 N									
(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 8 . 0									
TOTAL COLIFORM, MPN/100ml	3	7	0 0 1 N 1 7 . 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 5 8 . 0									
AMMONIA NITROGEN, mg/L	0	7	5 5 5 N 1 . 1									
(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												

CH. CHEMIST

CH. CHEMIST

CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
MINARS/GEMS

1. STATION CODE: 1 1 0 6

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

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

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DETERMINAND ARBITRARY CODE AQC FLAG VALUE

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 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) NITROGEN	0	7 0 0 4	
HARDNESS as CaCO ₃ , mg/L	2	2 1 0 1	N 5 4 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 8 8 0
FIXED DISSOLVED SOLIDS, mg/L	4	4 4 4 4	N 7 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			1 4
NITRITE, mg/L			1 2
Fluoride, Mg/L			

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 4 6 7
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 0 3 0 2 1 8 1 9 3 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
- 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 FLAGE				VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE				VALUE			
		0	2	0	1				2	6	4	9		7	1	6
TEMPERATURE, °c	1 0	3	0	2	N	8	5	0	2	1	0	1	N	4	6	0
PH	0 2	0	4	1	N	1	9	0	0	0	0	0	0	0	0	0
CONDUCTIVITY, µmhos/cm	1 0	1	0	1	N				0	2	2	0	1	N		
ALKALINITY, mg/L	0 7	1	0	5	N	2	7	0	2	2	0	3	N			
(1) ELECTROMETRIC	0 8	1	0	1	N	7	5		0	7	0	0	1	N		
(2) VISUAL TITRATION	0 8	2	0	1	N	1	6		0	7	0	0	4	N		
NITROGEN(NO ₃ + NO ₂), mg/L	0 8	3	0	1	N	2	0		0	7	0	0	4	N		
DISSOLVED OXYGEN, mg/L	1 7	2	0	1	N	3	0		0	7	0	0	1	N		
BOD, mg/L	1 7	2	0	1	N					7	0	0	1	N		
COD, mg/L	1 6	3	0	1	N					7	5	5	5	N	1	3
CHLORIDE, mg/L	1 6	3	0	2	N	2	8		0	7	5	5	1	N		
(1) ARGENTOMETRIC	1 1	1	0	3	N					0	5	1	0	N		
(2) MERCURIMETRIC	2 0	1	0	1	N	3	8		0	0	5	1	0	N		
SULPHATE, mg/L	1 2	1	0	3	N	1	6		0							
(1) GRAVIMETRIC	3 6	0	1	1	N											
(2) TURBIDIMETRIC																
SODIUM, mg/L																
CALCIUM as CaCO ₃ , mg/L																
MAGNESIUM as CaCO ₃ , mg/L																
FECAL COLIFORM MPN/100mg/L																

CH. CHEMIST

SCIENTIST

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 7 0 3 1 8

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=Highly

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	0
pH	1 0 3 0	2 N 8	5
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 1 8 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 3	0
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7	3
BOD, mg/L	0 8 2 0	1 N 1	8
COD, mg/L	0 8 3 0	1 N 2 4	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 4 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 3 4	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 6	8
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 4	3
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 3	0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0	0 1 N	
(ii) FLOAT	0 2 2 0	0 2 N	
(iii) CHEMICAL	0 2 2 0	0 3 N	
TOTAL KjELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7 0 0	0 1 N	
(ii) Nesslerization	0 7 0 0	0 4	
HARDNESS as CaCO ₃ mg/L	2 2 1 0	0 1 N 6 0	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0	0 1 N 7 0	0
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 1 3	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 4	
(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			
Fluoride, Mg/L			

R. Vaishnav
CHEMIST

A. Yadav
SCIENTIST

no
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 1 0 0 6
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 0 7 0 3 1 8 1 1 0 0
- WEATHER: Cloudy Clear Windy Raining
- APPROX DEPTH OF MAIN STREAM: <50cm. 50 - 100 m. >100 cm. Floody
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- 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. R. Vaishnav (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

WHO CODE AQC FLAG VALUE DETERMINAND ARBITRARY CODE AQCFLAG VALUE

TEMPERATURE, °C	0 2 0 0 1 N 3 3 0					
pH	1 0 3 0 2 N 8 5					
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 2 5	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 8					
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 8					
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 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 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	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					

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 CaCO ₃ , mg/L	2 2 1 0 1 N 5 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 8 2	0				
FIXED DISSOLVED SOLIDS, mg/L	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)

1 2 0 4 1 8

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 : 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

WHO CODE AQC FLAGE VALUE

DETERMINDAND	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 1 0 6	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 3	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 8 2	
BOD, mg/L	0 8 2 0	1 N 1 2	
COD, mg/L	0 8 3 0	1 N 1 0	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 1 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 2	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 2 9 2	
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	

ARBITRARY CODE

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 CaCO ₃ , mg/L	2 2 1 0 1	N 4 2	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 7 3	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4	N 5 8	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			
NITRITE, mg/L			
Fluoride, Mg/L			


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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 5 0 4 1 8 1 2 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. 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 6	0
pH	1 0 3 0	2 N 8 5	
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 1 4 0	0
ALKALINITY, mg/L	1 0 1 0	1 N	
(1) ELECTROMETRIC			
(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 3 0	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7 6	
BOD, mg/L	0 8 2 0	1 N 1 3	
COD, mg/L	0 8 3 0	1 N 2 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 3 2	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 6	8
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	

DETERMINAND ARBITRARY CODE AQC FLAG VALUE

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	
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 3 3	0
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 7 7	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N 5 2	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			
NITRATE, mg/L			
Fluoride, Mg/L			

Rajeev
CHEMIST

Dr. Anita Yadav
SCIENTIST

CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: **1 2 8 2**
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **1 2 0 4 1 8**
- 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=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 : Mahanadi River at Sheorinarayan,
District- Jangir-Champa (C.G.)
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	ARBITRARY CODE														
				9	7	1	6	7	N	0	2	1	0	1	N	2	5	0
TEMPERATURE, °c	0 2 0 0 1 N	3 5 . 8																
pH	1 0 3 0 2 N	8 . 5																
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N	1 2 8 . 0																
ALKALINITY, mg/L	1 0 1 0 1 N																	
(1) ELECTROMETRIC	1 0 1 0 2 N	9 8 . 0																
(2) VISUAL TITRATION	0 7 1 0 5 N	2 . 4																
NITROGEN(NO3 + NO2), mg/L	0 8 1 0 1 N	7 . 9																
DISSOLVED OXYGEN, mg/L	0 8 2 0 1 N	1 . 3																
BOD, mg/L	0 8 3 0 1 N	1 6 . 0																
COD, mg/L	1 7 2 0 1 N	3 0 . 0																
CHLORIDE, mg/L	1 7 2 0 1 N	3 0 . 0																
(1) ARGENTOMETRIC	1 7 2 0 1 N	3 0 . 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 5 . 0																
(2) TURBIDIMETRIC	1 1 1 0 3 N																	
SODIUM, mg/L	2 0 1 0 1 N	1 5 . 2																
CALCIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	4 . 8 7																
MAGNESIUM as CaCO ₃ , mg/L	3 6 0 1 1 N																	
FECAL COLIFORM MPN/100mg/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 2 0 4 1 8**

3. WEATHER: Cloudy Clear Windy Raining Station: **River Mahanadi at Balpur**

4. APPROX DEPTH OF MAIN STREAM: **<50cm.** 50 - 100 m. >100 cm. Flooded Type: **RIVER**

5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=Light 2=Moderate 3=High Completed by: **R. K. Ahirwar (Chemist)**

6. ODOUR: None Fishy H₂S Other Verified by: **Dr. Anita Yadav (Scientist)**

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: none moderate High Agency: **R. O. C. E. B. Bilaspur**

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 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 7 2 . 0		
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 1 2 . 0		
NITROGEN(NO3 + NO2), mg/L	0 7 1 0 5 N 3 . 0		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 . 3		
BOD, mg/L	0 8 2 0 1 N 1 . 6		
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 4 0 . 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO3, mg/L	2 0 1 0 1 N 1 7 . 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		

DETERMINAND	ARBITRARY CODE	AQCFLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
TURBIDITY, JTU/NTU	0 2 1 0 1 N 4 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) NITROGEN	0 7 0 0 4		
HARDNESS as CaCO3 mg/L	2 2 1 0 1 N 6 4 . 0		
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 8 0 . 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 9 1 . 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 6 2 . 0		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1 . 6		
(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 6 2 2**

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

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 near Tifra I.A., 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 FLAGE	VALUE	ARBITRARY CODE																
				9	7	1	6	7	N	6	7	N	5							
TEMPERATURE, °C	0 2 0 0 1 N 3 3 0																			
pH	1 0 3 0 2 N 7 5																			
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 4 3 0 0																			
ALKALINITY, mg/L																				
(1) ELECTROMETRIC	1 0 1 0 1 N																			
(2) VISUAL TITRATION	1 0 1 0 2 N 1 3 8 0																			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 5																			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 0 2																			
BOD, mg/L	0 8 2 0 1 N 0 1																			
COD, mg/L	0 8 3 0 1 N 2 0																			
CHLORIDE, mg/L																				
(1) ARGENTOMETRIC	1 7 2 0 1 N 1 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 1 0 0																			
SODIUM, mg/L	1 1 1 0 3 N																			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 4 8 0																			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 1 7																			
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N																			
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																				
(ii) Nesslerization																				
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																				
NITRITE, mg/L																				
Fluoride, Mg/L																				

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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. 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

<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 : Bore well water sample from BEC Fertilizer outside of the factory, premises (Near Banak Chowk) 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 FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N	3 0 0	0
pH	1 0 3 0 2 N	7 5	
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N	4 5 1	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N	1 3 2	0
NITROGEN(NO3 + NO2), mg/L	0 7 1 0 5 N	0 3	
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	0 4	
BOD, mg/L	0 8 2 0 1 N	0 2	
COD, mg/L	0 8 3 0 1 N	1 0	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N	5 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 1	0
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO3, mg/L	2 0 1 0 1 N	5 2	8
MAGNESIUM as CaCO3, mg/L	1 2 1 0 3 N	1 2	6 8
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9	1 6 7 N	
TURBIDITY, JTU/NTU	0	2 1 0 1 N	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 KIELDAHL NITROGEN, mg/L			
(i) TITRATION	0	7 0 0 1 N	
(ii) NITROGENIZATION	0	7 0 0 4	
HARDNESS as CaCO3 mg/L	2	2 1 0 1 N	1 8 4 0
TOTAL COLIFORM, MPN/100ml	3	7 0 0 1 N	< 2
TOTAL DISSOLVED SOLIDS, mg/L	3	3 3 3 3 N	2 9 1 0
FIXED DISSOLVED SOLIDS, mg/L	4	4 4 4 4 N	2 4 5 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			
Fluoride, Mg/L			

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**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): 2 6 0 4 1 8 1 2 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 : Arpa River D/S of Bilaspur city
check Dam outlet Devrikhurd
'RIVER'

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 FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N 3 5	7	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 6 8	0
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 3 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 3 0	0	(iii) CHEMICAL	0 2 2 0	3 N	
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 3	0	TOTAL KJELDAHL NITROGEN, mg/L			
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 6	0	(i) TITRATION	0 7 0 0	1 N	
BOD, mg/L	0 8 2 0	1 N 2	6	(ii) NITROGEN	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 1 2 6	0
CHLORIDE, mg/L				TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N 1 7 0	0
(1) ARGENTOMETRIC	1 7 2 0	1 N 6 2	0	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 9 2	0
(2) MERCURIMETRIC	1 7 2 0	1 N		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N 1 5 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	9
(2) TURBIDIMETRIC	1 6 3 0	2 N 4 2	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 3 0	4	PHOSPHATE, mg/L			2 0
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 1 2	1 9	NITRITE, mg/L			1 3
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N		Fluoride, Mg/L			

[Signature]
CHEMIST

[Signature]
SCIENTIST

[Signature]
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: **N E W** [1 3 0 4 1 8]

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

3. WEATHER: Cloudy [] Clear [] Windy [] Raining []

4. APPROX DEPTH OF MAIN STREAM: $\sqrt{<50\text{cm.}}$ [] 50 - 100 m. [] >100 cm. [] Flood []

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

6. ODOUR: $\sqrt{\text{None}}$ 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 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

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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DETERMINDANT 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	0	0
ALKALINITY, mg/L									
(1) ELECTROMETRIC	1	0	1	0	1	N			
(2) VISUAL TITRATION	1	0	1	0	2	N	1	5	0
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1	0	5	N	2	6	
DISSOLVED OXYGEN, mg/L	0	8	1	0	1	N	6	5	
BOD, mg/L	0	8	2	0	1	N	1	9	
COD, mg/L	0	8	3	0	1	N	2	4	0
CHLORIDE, mg/L									
(1) ARGENTOMETRIC	1	7	2	0	1	N	4	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	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	5	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			

DETERMINDANT 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	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	9	0	0
TOTAL COLIFORM, MPN/100ml	3	7	0	0	1	N	6	0	0
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3	3	3	N	1	3	5
FIXED DISSOLVED SOLIDS, mg/L	4	4	4	4	4	N	1	0	3
AMMONIA NITROGEN, mg/L									
(i) COLOURIMETRY	0	7	5	5	5	N	1	6	
(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									1
Fluoride, Mg/L									


CHEMIST


SCIENTIST


CH. SCIENTIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: **N E W 2** **2 6 0 4 1 8** **1 5 2 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 : Khutaghat Dam Village- Melnadh,
Ratanpur, District-Bilaspur (C.G.),
TYPE : Dam Water

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

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

DETERMINDAND

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 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 5 4 . 0	
TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N 2 3 . 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 9 8 . 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			
NITRITE , mg/L			
Fluoride, Mg/L			

Raj
CHEMIST

AN
SCIENTIST

AN
CH. SCIENTIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: **N E W 3**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **2 7 0 4 1 8** **1 4 1 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** **v1=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** **v 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 : Khudiya Dam Village- Khudiya, Lormi, District- Mungeli (C.G.)

TYPE : Dam Water

COMPLETED BY : R. R. Vaishnav (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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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		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 8 0 . 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 2 . 4		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 . 5		
BOD, mg/L	0 8 2 0 1 N 1 . 2		
COD, mg/L	0 8 3 0 1 N 1 2 . 0		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 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 CaCO ₃ , mg/L	2 0 1 0 1 N 1 6 . 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		

DETERMINAND ARBITRARY CODE AQC FLAG VALUE

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 . 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 COLIFORM, MPN/100ml	3 7 0 0 1 N 3 3 . 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 1 2 . 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 9 8 . 0		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 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			

Boj
CHEMIST

Adw
SCIENTIST

AL
CH. SCIENTIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1. STATION CODE
 1 1 0 0 0

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

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

MINARS/GEMS

MINDAT / GLOWDAT

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

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

Rajee
 CHEMIST

A. J. W.
 SCIENTIST

ARBITRARY CODE

9 7 1 6 7 N

AQC FLAGE

0 2 1 0 1 N

VALUE

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

2 2 1 0 1 N

3 7 0 0 1 N

3 3 3 3 2 6 5

4 4 4 4 4 4 1 9 0

0 7 5 5 5 N

0 7 5 5 1 N

0 5 1 0 5 N

3 0

1 3

0

0

0

0

DETERMINDAND

INSTANTANEOUS DISCHARGE, m³/s

TURBIDITY, JTU/NTU

VELOCITY OF FLOW, m/sec

(i) CURRENT METER

(ii) FLOAT

(iii) CHEMICAL

TOTAL KJELDAHL NITROGEN, mg/L

(i) TITRATION

(ii) 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

(ii) DISTILLATION TITRATION

BORON DISSOLVED, mg/L

PHOSPHATE, mg/L

NITRITE, mg/L

Fluoride, Mg/L

Ne
 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 8 0 8 1 8

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

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

5. COLOUR & INTENSITY

Clear Turbid Green Brown Turbidity 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

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

DETERMINAND

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

R. R. Vaishnav
CHEMIST

Dr. Anita Yadav
SCIENTIST

R. O. C. E. C. B.
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

STATION CODE : **1 4 6 7**

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

WEATHER : **1 6 0 0**
 Cloudy Clear Windy Raining

APPROX DEPTH OF MAIN STREAM : **1 6 0 0**
 <50cm. 50 - 100 m. >100 cm. Flood

COLOUR & INTENSITY : **1 6 0 0**
 Clear Turbid Green Brown Fishy H₂S Other

ODOUR : **1 6 0 0**
 None moderate High

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY : **1 6 0 0**
 None 1=Light 2=Moderate 3=High

HUMAN ACTIVITIES AROUND STATION : **1 6 0 0**
 None moderate High

LOCATION DETAIL : **1 6 0 0**
 U/S of Town or Industrial Area D/S of Town or Industrial area Pilgrim Center / Bathing Ghat Abstraction For Water Supply

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

MINARS/GEMS : **1 6 0 0**
 MINDAT / GLOWDAT

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

STATION : **1 6 0 0**
 TYPE : **1 6 0 0**
 COMPLETED BY : **1 6 0 0**
 VERIFIED BY : **1 6 0 0**
 AGENCY : **1 6 0 0**

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

WHO CODE

AQC FLAG

VALUE

DETERMINDAND	WHO CODE	AQC FLAG	VALUE
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 9 8	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 1 3 2	0
NITROGEN(NO3 + NO2), mg/L	0 7 1 0	5 N 5	7
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7	3
BOD, mg/L	0 8 2 0	1 N 2	9
COD, mg/L	0 8 3 0	1 N 4	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 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 5 2	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO3, mg/L	2 0 1 0	1 N 2 4	0
MAGNESIUM as CaCO3, mg/L	1 2 1 0	3 N 9	2 6
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 1 3 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 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 9 8	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N 3 5 0	0
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 2 5 6	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N 1 8 0	0
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5	5 N 3	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			

Raje
CHEMIST

Adw
SCIENTIST

Adw
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): **2 9 0 9 1 8** **1 3 4 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 Kharod
 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	AOC FLAGE	VALUE	ARBITRARY CODE							DETERMINAND	AOC FLAGE	VALUE
				9	7	1	6	7	N				
TEMPERATURE, °C	0	2	0	1	N	2	8	6					
PH	1	0	3	0	2	N	8	0					
CONDUCTIVITY, µmhos/cm	0	2	0	4	1	N	2	8	5	0			
ALKALINITY, mg/L													
(1) ELECTROMETRIC	1	0	1	0	1	N							
(2) VISUAL TITRATION	1	0	1	0	2	N	1	3	2	0			
NITROGEN(NO3 + NO2), mg/L	0	7	1	0	5	N	3	9					
DISSOLVED OXYGEN, mg/L	0	8	1	0	1	N	7	8					
BOD, mg/L	0	8	2	0	1	N	2	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	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	7	0				
SODIUM, mg/L	1	1	1	0	3	N							
CALCIUM as CaCO3, mg/L	2	0	1	0	1	N	1	6	0				
MAGNESIUM as CaCO3, mg/L	1	2	1	0	3	N	5	8	5				
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	5	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 KIELDAHL 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	4	0				
TOTAL COLIFORM, MPN/100ml	3	7	0	0	1	N	1	4	0				
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3	3	3	N	1	9	2	0			
FIXED DISSOLVED SOLIDS, mg/L	4	4	4	4	4	N	1	3	5	0			
AMMONIA NITROGEN, mg/L													
(i) COLOURIMETRY	0	7	5	5	5	N	2	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													
Fluoride, Mg/L													

CH. CHEMIST

SCIENTIST

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 9 0 9 1 8

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=Highly

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

<input checked="" type="checkbox"/> 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 : 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

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N 2 9	2
pH	1 0 3 0	2 N 8	5
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 7 2	0
ALKALINITY, mg/L	1 0 1 0	1 N	
(1) ELECTROMETRIC	1 0 1 0	2 N 1 3 6	0
(2) VISUAL TITRATION	0 7 1 0	5 N 4	1
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	0
BOD, mg/L	0 8 3 0	1 N 2 4	0
COD, mg/L	1 7 2 0	1 N 4 2	0
CHLORIDE, mg/L	1 7 2 0	1 N	
(1) ARGENTOMETRIC	1 1 1 0	3 N	8
(2) MERCURIMETRIC	2 0 1 0	1 N 1 5	2
SULPHATE, mg/L	3 6 0 1	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 5	2
CALCIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 5	8 5
MAGNESIUM as CaCO ₃ , mg/L	3 6 0 1	1 N	
FECAL COLIFORM MPN/100mg/L			

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 6 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) NITROGEN	0 7 0 0 4		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1	N 6 2	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1	N 1 6 0	0
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3	N 1 8 1	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4	N 1 4 3	0
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5	N 2	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			
Fluoride, Mg/L			

R. R. Vaishnav
CHEMIST

Dr. Anita Yadav
SCIENTIST

CH. CHEMIST

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 9 0 9 1 8
- 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
- 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

WHO CODE AQC FLAG VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N 2 8	9
pH	1 0 3 0	2 N 8	5
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 9 7	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(NO3 + NO2), mg/L	0 7 1 0	5 N 4	2
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7	5
BOD, mg/L	0 8 2 0	1 N 2	4
COD, mg/L	0 8 3 0	1 N 2 8	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 4 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 3 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	2
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	

DETERMINAND DETERMINAND AQC FLAG VALUE

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 6 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) NITROGENIZATION	0 7 0 0	4	
HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N 7 2	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N 1 7 0	0
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 2 0 7	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N 1 4 8	0
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5	5 N 2	6
(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			

Rajeev
CHEMIST

Anita
SCIENTIST

CH. CHEMIST

Billing Pro-forma For MINARS for the Month of September -2018

Station Name	Station code	Monitoring Frequency	pH	Conductivity	Alkalinity	NO2+NO3	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coliform	TDS	FDS	Phosphate	Temp	NH3	Field observation	Fluoride	Arsenic	Cadmium	Copper	Chromium	Nickel	Iron	Zinc	Others
Mahanadi river at Kharod	1100	M	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
Hasdeo river U/S of Champa	1106	M	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
Mahanadi river A/C of Mand river at Balpur	1467	M	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
Total Nos. of Samples			3	3	3	3+3	3	3	3	3	3	3	3	-	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-
Rate per sample in Rs.			45	45	45	90	45	150	115	45	75	45	45	105	45	75	75	75	75	15	45	200	-	-	-	-	-	-	-	-	-
Amount			135	135	135	270	135	450	345	135	225	135	135	-	135	225	225	225	225	45	135	600	-	-	-	-	-	-	-	-	-

Total Analysis Charges Rs.	4050=00
Sampling and Transportation Charges Rs. (2400X3=7200.00)	7200=00
Total Amount Rs.	11250=00

[Signature]
Scientist

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 9 1 1 1 8

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 : Hasdev River at Champa
 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 3 . 8		
PH	1 0 3 0 2 N 8 . 5		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 2 3 2 . 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		
NITROGEN(NO3 + NO2), mg/L	0 7 1 0 5 N 3 . 6		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 . 7		
BOD, mg/L	0 8 2 0 1 N 1 . 8		
COD, mg/L	0 8 3 0 1 N 2 2 . 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 1 . 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 6 . 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		

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		
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 6 6 . 0		
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 9 0 . 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 1 2 6 . 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			

R. Vaishnav
 CHEMIST

A. Yadav
 SCIENTIST

N
 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): 2 9 1 1 1 8

3. WEATHER: Cloudy Clear Windy Raining Station: River Mahanadi at Kharod

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

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

WHO CODE: 0 2 0 0 1 N 2 3 0

AQC FLAGE: 1 0 3 0 2 N 8 5

VALUE: 0 2 0 4 1 N 2 3 8 0

DETERMINAND	WHO CODE	AQC FLAGE	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 2 3 8 0		
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(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 3 1		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 8 3		
BOD, mg/L	0 8 2 0 1 N 1 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 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 2 6 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 6 8		
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

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 4 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 2 0		
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 5 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 2 1 3 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 1 4 4 0		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 2 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			

[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): **2 9 1 1 1 8** **1 6 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. R. Vaishnav (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur

DETERMINAND	WHO CODE	AQC	FLQ	VALUE	ARBITRARY														
					9	7	1	6	7	N	6	7	N	6	7	N			
TEMPERATURE, °C	0 2 0 0	1	N	2 3	1														
pH	1 0 3 0	2	N	8 5															
CONDUCTIVITY, umhos/cm	0 2 0 4	1	N	2 7 6	0														
ALKALINITY, mg/L																			
(1) ELECTROMETRIC	1 0 1 0	1	N																
(2) VISUAL TITRATION	1 0 1 0	2	N	1 3 2	0														
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5	N	3 5															
DISSOLVED OXYGEN, mg/L	0 8 1 0	1	N	8 0															
BOD, mg/L	0 8 2 0	1	N	2 1															
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	3 7	0														
SODIUM, mg/L	1 1 1 0	3	N																
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1	N	1 6	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																

RAJ
CHEMIST

Adw
SCIENTIST

NC
CH. CHEMIST

Billing Pro-forma For MINARS for the Month of November -2018

Station Name	Station code	Monitoring Frequency	pH	Conductivity	Alkalinity	NO2+NO3	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coliform	TDS	FDS	Phosphate	Temp	NH3	Field observation	Fluoride	Arsenic	Cadmium	Copper	Chromium	Nickel	Iron	Zinc	Others	
Mahanadi river at Kharod	1100	M	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-									
Hasdeo river U/S of Champa	1106	M	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-									
Mahanadi river A/C of Mand river at Balpur	1467	M	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-									
Total Nos. of Samples			3	3	3	3+3	3	3	3	3	3	3	3	-	3	3	3	3	3	3	3	3	-									
Rate per sample in Rs.			45	45	45	90	45	150	115	45	75	45	45	105	45	75	75	75	75	15	45	200	-									
Amount			135	135	135	270	135	450	345	135	225	135	135	-	135	225	225	225	225	45	135	600	-									

Total Analysis Charges Rs.	4050=00
Sampling and Transportation Charges Rs. (2400X3=7200.00)	7200=00
Total Amount Rs.	11250=00

[Signature]
Scientist

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 8 1 2 1 8
- WEATHER: Cloudy Clear Windy Raining 1 3 0 0
- 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
- 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 : Hasdev River at Champa
 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 1 7		
PH	1 0 3 0 2 N 8 5		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 2 2 3 0		
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 1 2 0		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 3 4		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 9		
BOD, mg/L	0 8 2 0 1 N 1 6		
COD, mg/L	0 8 3 0 1 N 2 0 0		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 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 3 6 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 5 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		

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 4 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 0 0		
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 6 0 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 5 1 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 1 2 2 0		
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			

R. O. C. E. C. B.
CHEMIST

A. Y.
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): **2 8 1 2 1 8**

3. WEATHER: **Cloudy** **Clean** **Windy** **Raining**

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

5. COLOUR & INTENSITY: **<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

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0 2 0 0 1 N 2 1 . 0			INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
pH	1 0 3 0 2 N 8 . 0			TURBIDITY, JTU/NTU	0 2 1 0 1 N 4 1 . 0		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 2 1 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 2 6 . 0			(iii) CHEMICAL	0 2 2 0 3 N		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 2 . 9			TOTAL KJELDAHL NITROGEN, mg/L			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 8 . 5			(i) TITRATION	0 7 0 0 1 N		
BOD, mg/L	0 8 2 0 1 N 1 . 6			(ii) NITRIMETER	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 5 6 . 0		
CHLORIDE, mg/L				TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 3 0		
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 1 . 0			TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 9 0 . 0		
(2) MERCURIMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 1 3 2 . 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 . 9		
(2) TURBIDIMETRIC	1 6 3 0 2 N 2 9 . 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 5 . 2			PHOSPHATE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 4 . 3 9			NITRITE, mg/L			
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			Fluoride, Mg/L			

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CHEMIST

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SCIENTIST

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CH. CHEMIST

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 2 1 8
- 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=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 Baipur
 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 1 5		
pH	1 0 3 0 2 N 8 5		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 2 6 1 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 3 2		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 8 2		
BOD, mg/L	0 8 2 0 1 N 1 9		
COD, mg/L	0 8 3 0 1 N 2 4 0		
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 3 4 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 6 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		

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 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			
(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 2 0		
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 7 0 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 2 0 2 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 1 4 8 0		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 2 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			

Rajeev
CHEMIST

Anita
SCIENTIST

CH
CH. CHEMIST

Billing Pro-forma For MINARS for the Month of December -2018

Station Name	Station code	Monitoring Frequency	pH	Conductivity	Alkalinity	NO2+NO3	D.O.	B.O.D.	C.O.D.	Chloride	Sulphate	Calcium	Turbidity	TKN	Hardness	Total Coliform	TDS	FDS	Phosphate	Temp	NH3	Field observation	Fluoride	Arsenic	Cadmium	Copper	Chromium	Nickel	Iron	Zinc	Others
Mahanadi river at Kharod	1100	M	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-								
Hasdeo river U/S of Champa	1106	M	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-								
Mahanadi river A/C of Mand river at Balpur	1467	M	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-								
Total Nos. of Samples			3	3	3	3+3	3	3	3	3	3	3	3	-	3	3	3	3	3	3	3	3	-								
Rate per sample in Rs.			45	45	45	90	45	150	115	45	75	45	45	105	45	75	75	75	75	15	45	200	-								
Amount			135	135	135	270	135	450	345	135	225	135	135	-	135	225	225	225	225	45	135	600	-								

Total Analysis Charges Rs.	4050=00
Sampling and Transportation Charges Rs. (2400X3=7200.00)	7200=00
Total Amount Rs.	11250=00




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 4 0 2 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 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: 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		VALUE
	CODE	AQCFLAG	CODE	AQCFLAG	
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 0 1 0	1 N			
(1)ELECTOMETRIC	1 0 1 0	1 N			
(2)VISUAL TITRATION	1 0 1 0	2 N 1 8 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 1 5 2 3 2			
CHLORIDE, mg/L					
(1)ARGENTOMETRIC	1 7 2 0	1 N 8 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 4 4			
MAGNESIUM 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 ³	9 7 1 6	7 N			
TURBIDITY, JT/UNTU			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 6 0	
TOTAL COLIFORM, MPN/100ml			7 0 0 1	N	
TOTAL DISSOLVED SOLIDS, mg/l			3 3 3 1	N 3 1 0 0	
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					8 0 0

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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): 2 2 0 2 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

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		VALUE		DETERMINAND	ARBITRARY		VALUE
	CODE	AQCFLAG	CODE	VALUE		CODE	AQCFLAG	
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	0 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	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 8 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	2 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	1	5 2	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	1 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 4 0 2 1 8 1 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

8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other 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		AQCFLAG	VALUE	DETERMINAND	ARBITRARY		VALUE
	CODE	CODE				CODE	AQCFLAG	
TEMPERATURE, °C	0 2 1 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 1 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 8	0	TOTAL KJELDAHL NITROGEN, mg/L	0 7 0 0 1	N	
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5	1 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 0 0
BOD, mg/l	0 8 2 0 1	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 8	5 6	TOTAL COLIFORM, MPN/100ml	3 3 3 3 3	N	2 2 0 0
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4 4	N	
(1) ARGENTOMETRIC	1 7 2 0 1	1 N	4 6	0	FIXED DISSOLVED SOLIDS, mg/L			
(2) MERCURIMETRIC	1 7 2 0 1	1 N			AMMONIUM NITROGEN, mg/L	0 7 5 5 5	N	
SULPHATE, mg/L					(i) COLOURIMETRY	0 7 5 5 1	N	
(1) GRAVIMETRIC	1 6 3 0 1	1 N			(ii) DISTILLATION TITRATION	0 5 1 0 5	N	
(2) TURBIDIMETRIC	1 6 3 0 2	1 N			BORON DISSOLVED, mg/L			
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 8	4	NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3	1 N	1 5	6	SUSPENDED SOLID, mg/L			6 0 0
FECAL COLIFORM MPN/100ml	3 6 0 1 1	1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7	1 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/YY) 2 3 0 2 1 8 0 3 : 1 0 P M

3. WEATHER

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

<input type="checkbox"/> None	<input type="checkbox"/> Fishery	<input checked="" type="checkbox"/> Other
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8. HUMAN ACTIVITIES AROUND STATION

<input type="checkbox"/> Cattle Wading	<input type="checkbox"/> Melon Farming	<input type="checkbox"/> Fising	<input type="checkbox"/> Other
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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 : 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
TEMPERTURE, °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 4 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. 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
COD, mg/L	0 8 3 0 1 N	2 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)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 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

MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 0 2 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: Cattle Wading Melon Farming Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: 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 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	0 2 0 0 1 1 N			TURBIDITY, JTU/NTU	0 2 1 0 1 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 3 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 1 6 . 0	
COD, mg/L	0 8 3 0 1 N	2 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	2 4 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)DISTILATION TITRATION	0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED, mg/L	0 5 1 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 7 . 0 7		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
MINDAT/ GLOWDAT

1. STATION CODE 3 1 6 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 2 0 2 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 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		DETERMINAND		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG	CODE	VALUE
TEMPERTURE, °C	0 2 0 0 1 N		TURBIDITY, JTUNTU		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	1 0 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	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 . 0
COD, mg/L	0 8 3 0 1 N	1 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 . C
(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		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 0 . 0	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 . 0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N					

N. K. Patel

U.K. Mandal

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE: 1107
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 22/02/18 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 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 CODE	AQCFLAG	VALUE	ARBITRARY	
				CODE	AQCFLAG
TEMPERATURE, °C	02001N			02101N	
pH	10302N	7.5			
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	7.2			
BOD, mg/l	08201N			07004N	
COD, mg/L	08301N	19.04		22101N	14.0
CHLORIDE, mg/L		38.0			
(1)ARGENTOMETRIC	17201N			37001N	
(2)MERCURIMETRIC	17201N			3333N	21.0.0
SULPHATE, mg/L				4444N	
(1)GRAVIMETRIC	16301N				
(2)TURBIDIMETRIC	16302N				
SODIUM, mg/L	11103N				
CALCIUM as CaCO ₃ , mg/L	20101N	19.2			
MAGENESIUM as CaCO ₃ , mg/L	12103N				
FECAL COLIFORM MPN/100ml	36011N				
INSTANTANEOUS DISCHARGE, m ³	97167N				
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)DISTILATION TITRATION					
BORON DISSOLVED, mg/L					
PHOSPHATE, mg/L					
NITRITE mg/L					
SUSPENDED SOLID, mg/L					40.0

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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) 3 1 6 3
 2 7 0 2 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	QCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	QCFLAG	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 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 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 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 1 2 3 7 6			TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 3 N 2 9 0 0		
(1)ARGENTOMETRIC	1 7 2 0 1 N 6 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 2 4 0			NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 8 2 8			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

1. STATION CODE 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 3 1 0 3 1 8 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 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/
 Industrial Area Industrial Area Bath Gath Water Supply

STATION : NEHRU NAGAR TALAB
 BHILAI DIST.DURG

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

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

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. 6		
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 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	1 7 1. 3 6		
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N	5 6. 0		
(2)MERCURIMETRIC	1 7 2 0 1 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 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 1. 2 1		
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)NITROSELENERZATION				
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 SOLI mg/L				

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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 3 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
 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: 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		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 2 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	6.	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	1 2 3.	7 6		TOTAL COLIFORM, MPN/100ml	7 0 0 1	N	
CHLORIDE, mg/L	1 7 2 0	1 N	5 8.	0		TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 N	2 9 0.	0
(1)ARGENTOMETRIC	1 7 2 0	1 N				FIXED DISSOLVED SOLIDS, mg/L	4 4 4 N		
(2)MERCURIMETRIC						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 1 1 0	3 N				BORON DISSOLVED, mg/L	5 1 0 5	N	
SODIUM, mg/L	2 0 1 0	1 N	2 4.	0		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	8.	2 8		NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	3 6 0 1	1 N				SUSPENDED SOLI mg/L			8 0 . 0
FECAL COLIFORM MPN/100ml	9 7 1 6	7 N							
INSTANTANEOUS DISCHARGE, m ³									

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDATI/GLOWDAT

1. STATION CODE: 3 1 6 6
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 3 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 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: RIVER SHEONATHAT
 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		AQCF		VALUE		DETERMINAND	ARBITRARY		VALUE
	CODE	AQCF	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	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	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 .
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 0 .
(1) MERCURIMETRIC	1 7 2 0	1 N	3 4 .	0			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
(2) TURBIDIMETRIC	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	1 9 .	2			NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 5 .	1 2			SUSPENDED SOLID, 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 1 8 4 5
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 7 0 3 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 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 : 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		ACQFLAG		VALUE		DETERMINAND	ACQFLAG		VALUE
	CODE	CODE	CODE	CODE	VALUE	VALUE		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	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 2			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 8 . 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							TOTAL DISSOLVED SOLIDS, mg/L	3 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	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			
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	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 4 0 3 1 8 0 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 D/s of Town of Pilgrim Center/
 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
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, 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 0 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 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 1 6. 0		
COD, mg/L	0 8 3 0 1 N 1 9. 0 4			TOTAL COLIFORM, MPN/100ml	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 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	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 0. 0			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. 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 4 0 3 1 8 0 1 : 3 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

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		VALUE
	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. 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				
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 9. 0 4			
CHLORIDE, mg/L		3 6. 0			
(1)ARGENTOMETRIC	1 7 2 0 1 N				
(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	1 8. 4			
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				
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					
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: 1 8 4 7

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

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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 3 0 3 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
 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 Bath Gath Pilgrim Center/ Water Supply 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	WHO CODE	AQCFLAG	VALUE	ARBITRARY	
								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. 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 3 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	1 2 0. 0			
COD, mg/L	0 8 3 0 1 N	2 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	3 1 0. 0			
(1)ARGENTOMETRIC	1 7 2 0 1 N	4 3. 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 0. 8		NITRITE mg/L					
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 6. 5 6		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
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 10418 16:25AM

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 of Industrial Area Pilgrim Center/ Bath Gath Abstraction For Water Supply

STATION: RIVER AT DHAMDHA VILLAGE, DURG
 TYPE: NEAR DURG DHAMDHA ROAD BRIDGE
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K. MANDAL
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		AQCF		VALUE		ARBITRARY	
	CODE	CODE	CODE	CODE	CODE	CODE	CODE	VALUE
TEMPERATURE, °C	0200	01N					0210	1N
pH	1030	2N	7	6				
CONDUCTIVITY, µghos/cm	0204	1N					0220	1N
ALKALINITY, mg/L							0220	2N
(1)ELECTOMETRIC	1010	1N					0220	3N
(2)VISUAL TITRATION	1010	2N	138	0			0700	1N
NITROGEN(NO ₃ +NO ₂), mg/L	0710	5N					0700	4N
DISSOLVED OXYGEN, mg/L	0810	1N	7	2			2210	1N
BOD, mg/l	0820	1N					3700	1N
COD, mg/L	0830	1N	38	4			3333	3N
CHLORIDE, mg/L							4444	4N
(1)ARGENTOMETRIC	1720	1N	52	0				
(2)MERCURIMETRIC	1720	1N						
SULPHATE, mg/L	1630	1N						
(1)GRAVIMETRIC	1630	2N						
(2)TURBIDIMETRIC	1110	3N						
SODIUM, mg/L	2010	1N	24	8				
CALCIUM as CaCO ₃ , mg/L	1210	3N	15	12				
MAGNESIUM as CaCO ₃ , mg/L	3601	1N						
FECAL COLIFORM MPN/100ml	9171	67N						500
INSTANTANEOUS DISCHARGE, m ³								

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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 0 0 4 1 8 1 6 : 2 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 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 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 . 6			
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 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 7 . 2			
BOD, mg/l	0 8 2 0 1 N			
COD, mg/L	0 8 3 0 1 N 1 2 7 . 4			
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 4 . 4			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 1 . 2 1			
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)DISTILLATION TITRATION				
BORON DISSOLVED, mg/L				
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLI 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 1 0 4 1 8 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

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		AQCF LAG		VALUE		DETERMINAND	ARBITRARY		VALUE
	CODE	AQCF LAG	CODE	AQCF LAG	CODE	AQCF LAG		CODE	AQCF LAG	
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, 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	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
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							TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	2 3 0
(1)ARGENTOMETRIC	1 7 2 0	1 N	2	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	6	0		NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N					SUSPENDED SOLID, mg/L			5 0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N								
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N								

M. K. PATEL

M. K. PATEL

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 0 0 4 1 8 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 TYPE: AFTER CONFLUENCE OF SAMODA NALLA
 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
 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 1 N	0 1 1 N					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 3 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 . 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	2 7 0 . 0	
(1) ARGENTOMETRIC	1 7 2 0 1 N	7 4 . 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	2 1 . 6					NITRITE mg/L			
MAGNESIUM 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 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 1 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 6 0 4 1 8 1 5 : 1 7 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: Cattle Wading Melon Farming Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Pilgrim Center/ Bath Gath Fising Other

9. LOCATION DETAIL: U/s of Town or industrial Area D/s of Town of industrial Area 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 N		0 2 1 0 1 N	
pH	1 0 3 0 2 N	7. 4		
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 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	7. 2		
BOD, mg/l	0 8 2 0 1 N			
COD, mg/L	0 8 3 0 1 N	3 9. 2		
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N	4 2. 0	3 3 3 3 3 N	2 6 0. 0
(2)MERCURIMETRIC	1 7 2 0 1 N		4 4 4 4 4 N	
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 N		0 7 5 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 0. 8		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 6. 5 8		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			5 0. 0
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N			

N. K. PATEL

U.K. Mandal

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 3 0 3 1 8 1 5 : 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 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/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	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	6.2	(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	16.0
COD, mg/L	0 8 3 0	1 N	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	28.0
(1) ARGENTOMETRIC	1 7 2 0	1 N	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) 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	8.4	NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	17.0	SUSPENDED SOLID, mg/L			60.0
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 1 0 4 1 8 0 4 : 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 PROXIMITY: 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 Industrial Area 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. BHILAI

DETERMINAND	WHO CODE	QCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	QCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N		VELOCITY OF FLOW, m/sec			
pH	1 0 3 0	2 N	7.5	(i)CURRENT METER	2	2	0
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N		(ii)FLOATE	2	2	0
ALKALINITY, mg/L				(iii)CHEMICAL	2	2	0
(1)ELECTOMETRIC	1 0 1 0	1 N		TOTAL KJELDAHL NITROGEN, mg/L			
(2)VISUAL TITRATION	1 0 1 0	2 N	0	(i)TITRATION	7	0	0
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(ii)NESSELERIZATION	7	0	0
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7.4	HARDNESS as CaCO ₃ , mg/L	2	1	0
BOD, mg/l	0 8 2 0	1 N		TOTAL COLIFORM, MPN/100ml	7	0	0
COD, mg/L	0 8 3 0	1 N	64	TOTAL DISSOLVED SOLIDS, mg/l	3	3	3
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	4	4	4
(1)ARGENTOMETRIC	1 7 2 0	1 N	0	AMMONIAM NITROGEN, mg/L			
(2)MERCURIMETRIC	1 7 2 0	1 N		(i)COLOURIMETRY	7	5	5
SULPHATE, mg/L				(ii)DISTILLATION TITRATION	7	5	5
(1)GRAVIMETRIC	1 6 3 0	1 N		BORON DISSOLVED, mg/L	5	1	0
(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	40	SUSPENDED SOLID mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	10				
FECAL COLIFORM MPN/100ml	3 6 0	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 1 0 4 1 8 1 1 3 : 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 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		DETERMINAND		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG	CODE	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	7.4	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	8.4	0
COD, mg/L	0 8 3 0 1 N	19.6	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L		26.0	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	23.0	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	16.0	NITRITE mg/L			
MAGNESIUM 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
MINDAT/ GLOWDAT

1. STATION CODE: 3 1 6 3

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 8 / 0 4 / 1 8 1 6 : 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 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: 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	AQCFLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N		TURBIDITY, JT/NTU	2 1 0 1	N
pH	1 0 3 0	2 N	7. 2	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)ELECTROMETRIC	1 0 1 0	1 N		(iii)CHEMICAL	2 2 0 3	N
(2)VISUAL TITRATION	1 0 1 0	2 N	1 2 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 2 0	1 N	6. 0	(ii)NESSLERIZATION	7 0 0 4	N
BOD, mg/l	0 8 3 0	1 N	1 2 3. 7 6	HARDNESS as CaCO ₃ , mg/L	2 1 0 1	N
COD, mg/L	0 8 3 0	1 N	1 2 3. 7 6	TOTAL COLIFORM, MPN/100ml	7 0 0 1	N
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	3 3 3 3	N 2 5 0. 0
(1)ARGENTOMETRIC	1 7 2 0	1 N	5 8. 0	AMMONIAM 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	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	2 4. 0	SUSPENDED SOLI mg/L		6 0. 0
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	8. 2 8			
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

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

1 5 0 5 1 8 1 1 : 1 5 A M

3. WEATHER

Cloudy Windy Clear Raining

STATION: RIVER AT DHAMDHA 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 : NEAR DURG DHAMIDHA ROAD BRIDGE

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 Dis 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	7.6
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 0 . 0
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7.3
BOD, mg/l	0 8 2 0	1 N	
COD, mg/L	0 8 3 0	1 N	3 8 . 4
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 4 . 8
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 3 . 6 5
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 8 . 0
TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	2 6 0 . 0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N	
AMMONIUM 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			5 0 . 0

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE 3 1 6 1 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 3 0 5 1 8 0 2 : 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 FROXIMIT None Fishery Other

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

9. LOCATION DETAIL U/s of Town of Pilgrim Center/ Abstraction For
Industrial Area Industrial Area Bath Gath 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	QCFLAG	CODE	QCFLAG
TEMPERATURE, °C	0 2 0 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 0 . 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		2 1 0 1 N	1 3 0 . 0
COD, mg/L	0 8 3 0 1 N	1 2 4 . 8		
CHLORIDE, mg/L			7 0 0 1 N	
(1)ARGENTOMETRIC	1 7 2 0 1 N	7 0 . 0		
(2)MERCURIMETRIC	1 7 2 0 1 N		3 3 3 3 N	3 1 0 . 0
SULPHATE, mg/L			4 4 4 4 N	
(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 2 . 0		
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 2 . 1 9		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			6 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 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 7 0 5 1 8 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
 None Fishy H₂S Other

6. ODOUR None Fishery 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 or Industrial Area Pilgrim Center/ 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		ARBITRARY		VALUE
	CODE	QC	QC	FLAG	DETERMINAND	CODE	AQCF	FLAG	
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	4	(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	8 0	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	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	2 3 0	0
CHLORIDE, mg/L					FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N		
(1)ARGENTOMETRIC	1 7 2 0	1 N	2	4	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	1	6	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: **3 1 6 6**
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **1 5 0 5 1 8 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 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		AQCFLAG		VALUE		DETERMINAND	ARBITRARY		VALUE	
	CODE	QCFLAG	CODE	QCFLAG	CODE	QCFLAG		CODE	QCFLAG	CODE	QCFLAG
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	2	6	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	6	7			HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N	1	4
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	3	8	4		TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N	2	6
CHLORIDE, mg/L							FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N		
(1)ARGENTOMETRIC	1 7 2 0	1 N	6	8	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	2	3	0		SUSPENDED SOLID, mg/L			6	0
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1	1	3	6					
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 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 0 5 1 8 0 3 : 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 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 N		0 2 1 0 1 N	
pH	1 0 3 0 2 N	7. 6		
CONDUCTIVITY, µhos/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 3 0. 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	3 8. 4		
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N	4 0. 0	3 3 3 3 3 N	2 9 0. 0
(2)MERCURIMETRIC	1 7 2 0 1 N		4 4 4 4 4 N	
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 N		0 7 5 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 4. 0		
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			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
MINDATI/GLOWDAT

1. STATION CODE: 1 8 4 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 3 0 5 1 8 0 2 : 1 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 D/s 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	0 2 0 0	1 N		TURBIDITY, JTU/NTU	0 2 1 0	1 N	
pH	1 0 3 0	2 N	7 . 7	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	6 . 5	(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
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 7 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 0 . 0	NITRITE mg/L			
MAGNESIUM 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
MINDAT/GLOWDAT

1. STATION CODE: **3167**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **170518 04:00 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 CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	02001N			TURBIDITY, JT/UNTU	2101N		
pH	10302N	7.5		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	02041N			(i) CURRENT METER	2201N		
ALKALINITY, mg/L				(ii) FLOATE	2202N		
(1) ELECTOMETRIC	10101N			(iii) CHEMICAL	2203N		
(2) VISUAL TITRATION	10102N	102.0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	07105N			(i) TITRATION	7001N		
DISSOLVED OXYGEN, mg/L	08101N	7.3		(ii) NESSELERIZATION	7004N		
BOD, mg/l	08201N			HARDNESS as CaCO ₃ , mg/L	2101N	84.0	
COD, mg/L	08301N	19.2		TOTAL COLIFORM, MPN/100ml	7001N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	333N	230.0	
(1) ARGENTOMETRIC	17201N	26.0		FIXED DISSOLVED SOLIDS, mg/L	444N		
(2) MERCURIMETRIC	17201N			AMMONIUM NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	755N		
(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	16.8		NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	12103N	10.24		SUSPENDED SOLI 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: 11017

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 22/05/18 01:20 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	VALUE
TEMPERATURE, °C	02001N			02101N		
pH	10302N	7.3				
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	7.1				
BOD, mg/l	08201N					
COD, mg/L	08301N	19.2				
CHLORIDE, mg/L		22.4				
(1)ARGENTOMETRIC	17201N					
(2)MERCURIMETRIC	17201N					
SULPHATE, mg/L						
(1)GRAVIMETRIC	16301N					
(2)TURBIDIMETRIC	16302N					
SODIUM, mg/L	11103N					
CALCIUM as CaCO ₃ , mg/L	20101N	16.0				
MAGENESIUM as CaCO ₃ , mg/L	12103N					
FECAL COLIFORM MPNI/100ml	36011N					
INSTANTANEOUS DISCHARGE, m ³	97167N					
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, MPNI/100ml						
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						

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 3163

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY): 31/05/18 01:10 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: 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
TEMPERTURE, °C	02001N		2101N	
pH	10302N	7.2		
CONDUCTIVITY, µghos/cm	02041N		2201N	
ALKALINITY, mg/L			2202N	
(1)ELECTOMETRIC	10101N		2203N	
(2)VISUAL TITRATION	10102N	120.0		
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			
DISSOLVED OXYGEN, mg/L	08101N	6.0		
BOD, mg/l	08201N			
COD, mg/L	08301N	15.2		
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	17201N	48.0	333N	260.0
(2)MERCURIMETRIC	17201N		444N	
SULPHATE, mg/L				
(1)GRAVIMETRIC	16301N		755N	
(2)TURBIDIMETRIC	16302N		7551N	
SODIUM, mg/L	11103N		5105N	
CALCIUM as CaCO ₃ , mg/L	20101N	24.0		
MAGENESIUM as CaCO ₃ , mg/L	12103N	7.31		
FECAL COLIFORM MPN/100ml	36011N			60.0
INSTANTANEOUS DISCHARGE, m ³	97167N			

N. K. Patel

U.K. Mandal

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/ GLOWDAT

1. STATION CODE: 8 1 2 1 8

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

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

4. APPROX DEPTH OF MAIN STREAM: Clear Turbid Green Brown 1=light 2=Moderate 3=High

5. COLOUR & INTENSITY: Non-Fishy H₂S Other

6. ODOUR: None Moderate High

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: 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 Abstraction For Bathing Ghat Water Supply

9. LOCATION DETAIL: PP[

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	WHO CODE	AQCFLAG	VALUE	ARBITRARY	
								CODE	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, 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 1 2 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	6.2		(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	5 8.8		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 3 N	1 8 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	2.4		NITRITE mg/L					
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	0.9 7 5		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

1. STATION CODE: 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 0 0 6 1 8 0 1 : 3 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 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 Bath Gath Abstraction For Water Supply

STATION: NEHRU NAGAR TALAB BHILAI DIST. DURG

COMPLETED BY: N. K. PATEL

VERIFIED BY: U.K. MANDAL

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)ELECTOMETRIC	1 0 1 0 1 N		2 2 0 3 N	
(2)VISUAL TITRATION	1 0 1 0 2 N 1 7 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 6 . 8		7 0 0 1 N	
BOD, mg/l	0 8 2 0 1 N		7 0 0 4 N	
COD, mg/L	0 8 3 0 1 N 1 7 1 . #		2 1 0 1 N 1 3 2 . 0	
CHLORIDE, mg/L			7 0 0 1 N	
(1)ARGENTOMETRIC	1 7 2 0 1 N 6 8 . 0		3 3 3 3 N 3 6 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 3 4 . 4			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 1 1 . 2 7			
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				
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
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 1 0 6 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 TYPE: NEAR W/S INTAKE WELL POINT

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: Cattle Wading None Fishery Other

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

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

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

DETERMINAND	WHO	WHO		WHO		DETERMINAND	ARBITRARY		VALUE
		CODE	AQCFLAG	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	1 0 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	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	7 8 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 7 0 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				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	1 8	4		NITRITE mg/L			
MAGNESIUM 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
MINDAT/GLOWDAT

1. STATION CODE 3 1 6 6
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 7 0 6 1 8 1 1 : 1 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 JHINJHRI VILLAGE, DURG

TYPE: AFTER CONFLUENCE OF SAMODDA NALLA

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	QC	FL	AG	CODE	QC		FL	AG	CODE	QC	FL
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	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	2	TOTAL KJELDAHL NITROGEN, mg/L					
NITROGEN (NO ₃ +NO ₂), 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	5	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	3 1 8
COD, mg/L	0 8	3	0	1 N	3	8	TOTAL COLIFORM, MPN/100ml	3 7	0	0	1 N	
CHLORIDE, mg/L							FIXED DISSOLVED SOLIDS, mg/L	3 3	3	3	3 N	3 1 0
(1) ARGENTOMETRIC	1 7	2	0	1 N	3	4	AMMONIUM 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	
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	3	3	SUSPENDED SOLID, mg/L					7 0
MAGNESIUM as CaCO ₃ , mg/L	1 2	1	0	3 N	5	7						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 0 6 1 8 0 4 : 15 0 P.M.

3. WEATHER Cloudy Windy Clear Raining

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

STATION : RIVER KHAROON AT DURG

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

TYPE : BEFOR KHAPARI NALLA

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 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 Pilgrim Center/ Bath Gath Abstraction For Water Supply

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 1 N		0 2 1 0 1 N	
pH	1 0 3 0 2 N	7. 4		
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 1 0. 0		
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N		0 7 0 0 1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	7. 0	0 7 0 0 4 N	
BOD, mg/l	0 8 2 0 1 N		2 2 1 0 1 N	9 0. 0
COD, mg/L	0 8 3 0 1 N	2 9. 4	3 7 0 0 1 N	
CHLORIDE, mg/L			3 3 3 3 3 N	2 3 0. 0
(1)ARGENTOMETRIC	1 7 2 0 1 N	2 4. 0	4 4 4 4 4 N	
(2)MERCURIMETRIC	1 7 2 0 1 N			
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 N		0 7 5 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	1 8. 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			5 0. 0
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: 3 1 6 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 1 0 6 1 8 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 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 : 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 . 5		
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	1 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 . 8	7 0 0 4 N	
BOD, mg/l	0 8 2 0 1 N		2 1 0 1 N	8 2 . 0
COD, mg/L	0 8 3 0 1 N	2 8 . 5 6	7 0 0 1 N	
CHLORIDE, mg/L			3 3 3 3 N	2 8 0 . 0
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 2 . 0	4 4 4 4 N	
(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	2 0 . 0		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	7 . 8 0		
FE CAL COLIFORM MPN/100ml	3 6 0 1 1 N			5 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 1 0 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 1 0 6 1 8 0 1 : 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 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		AQCFLAG		VALUE		DETERMINAND	AQCFLAG		VALUE	
	CODE	QACFLAG	CODE	QACFLAG	CODE	QACFLAG		CODE	QACFLAG	CODE	QACFLAG
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				
CCONDUCTIVITY, 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	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
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
(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	1	2		NITRITE mg/L				
MAGENESIUM as CaCO ₃ , mg/L	1 2 1	0 3 N					SUSPENDED SOLID, mg/L			6	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 7 1 8 0 1 : 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: 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 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: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	WHO CODE	AQCF	FLAG	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	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) ELECTROMETRIC	1 0 1 0 1 N				(iii) CHEMICAL	2 2 0 3 N			
(2) VISUAL TITRATION	1 0 1 0 2 N	1	2	6	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
COD, mg/L	0 8 3 0 1 N	1	2	7	TOTAL COLIFORM, MPN/100ml	7 0 0 1 N			
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 3 N	4	1	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				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	5	6	NITRITE mg/L				
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1	1	7	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								

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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): 1 2 0 7 1 8 0 4 : 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 Pilgrim Center/ Bath Gath Fising Other

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

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 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		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 3 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	7 . 2		
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	4 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 8 . 8		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1 . 2 1		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N			
TURBIDITY, JT/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				
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

MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 2 0 7 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 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 - BRIDGEGE
 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
TEMPERTURE, °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 2 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 1 0.0
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	3 1 0.0
(1)ARGENTOMETRIC	1 7 2 0	1 N	4 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 5.6	NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 1.2 1	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

[MINDAT/GLOWDAT

1. STATION CODE

3 1 6 6
1 1 0 7 1 8

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

1 1 : 2 5 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 Fising Other

VERIFIED BY: U.K.MANDAL

9. LOCATION DETAIL

U/s of Town or industrial Area	<input checked="" type="checkbox"/>	Dis 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		QCFLAG		VALUE		ARBITRARY	
	CODE	QCFLAG	CODE	QCFLAG	DETERMINAND	VALUE	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 . 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 4 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	1 2 8 . 0
COD, mg/L	0 8 3 0 1 N	4 7 . 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	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 7 . 2			NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 4 . 6 3			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/YYYY): 1 0 0 7 1 8 0 4 : 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: Cattle Wading Melon Farming Fising Other Fishery 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: 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 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	TOTAL DISSOLVED SOLIDS, mg/L
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	1 1 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	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	8 2 . 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 N	1 8 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	2 0 . 0		NITRITE mg/L														
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	7 . 8 0		SUSPENDED SOLI 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: 1107
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 10/07/18 04:25 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 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 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		VALUE
	CODE	AQCFLAG	CODE	AQCFLAG	
TEMPERATURE, °C	02001N		02101N		
pH	10302N	7.5			
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	7.0			
BOD, mg/l	08201N				
COD, mg/L	08301N	19.04			
CHLORIDE, mg/L		26.0			
(1)ARGENTOMETRIC	17201N				
(2)MERCURIMETRIC	17201N				
SULPHATE, mg/L					
(1)GRAVIMETRIC	16301N				
(2)TURBIDIMETRIC	16302N				
SODIUM, mg/L	11103N				
CALCIUM as CaCO ₃ , mg/L	20101N	18.4			
MAGNESIUM as CaCO ₃ , mg/L	12103N	7.80			
FECAL COLIFORM MPN/100ml	36011N				
INSTANTANEOUS DISCHARGE, m	97167N				
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)DISTILATION TITRATION					
BORON DISSOLVED, mg/L					
PHOSPHATE, mg/L					
NITRITE mg/L					
SUSPENDED SOLID, mg/L					

Alad

M. K. Patel

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 0 0 7 1 8 1 1 : 1 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 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		AQCFLAG		VALUE		DETERMINAND	ARBITRARY		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	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 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	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	7 8 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 7 0 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					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			
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

1. STATION CODE 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 9 0 8 1 8 0 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 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 Abstraction For

9. LOCATION DE TAIL
 Industrial Area D/s of Town of Pilgrim Center/
 Industrial Area Bath Gath 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	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. 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 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 2 0. 0	
COD, mg/L	0 8 3 0 1 N	1 6 7. 9 6		TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/l	3 3 3 N	3 1 0. 0	
(1) ARGENTOMETRIC	1 7 2 0 1 N	5 8. 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 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

1. STATION CODE: 1 8 4 5

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 0 0 8 1 8 1 1 : 2 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 Fishing 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 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	AQCF	FLAG	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, 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 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	6.8	(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
COD, mg/L		0 8 3 0	1	N	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
(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		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 3 2	NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L		1 2 1 0	3	N		SUSPENDED SOLID,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

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE 3 1 16 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 9 0 8 1 18 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 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 SHEONATHAT
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	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		
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. 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		2 2 1 0 1 N	1 2 6. 0
COD, mg/L	0 8 3 0 1 N	3 9. 5 2	3 7 0 0 1 N	
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 2. 0	3 3 3 3 3 N	3 3 0. 0
(2)MERCURIMETRIC	1 7 2 0 1 N		4 4 4 4 4 N	
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0 1 N		0 7 5 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 9. 6		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 2. 6 8		
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				
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				8 0. 0

Arjun

Nidoo

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 1 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 0 6 0 8 1 8 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 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 KHARCOON AT DURG
TYPE : AFTER KHAPRI NALLA
COMPLETED BY : N. K. PATEL
VERIFIED BY : U.K. MANCAL
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. 3		
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 0 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. 0		
BOD, mg/l	0 8 2 0 1 N			
COD, mg/L	0 8 3 0 1 N	3 8. 0 8		
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		0 7 5 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 8. 0		
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1. 2 1		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			5 0. 0
INSTANTANEOUS DISCHARGE, m	9 7 1 6 7 N			




MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOW/DAT

1. STATION CODE: 1 8 1 4 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY): 0 6 0 8 1 8 0 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 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 KHAROOM AT DURG
 TYPE : UP STEAM NEAR DURG- RAIPUR ROAD - BRIDGE
 COMPLETED BY : R. 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 1 0 0 1	1 N		TURBIDITY, JTUNTU	0 2 1 0 1	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	1 N		(i)CURRENT METER	0 2 2 0 1	1 N	
ALKALINITY, mg/L				(ii)FLOATE	0 2 2 0 2	1 N	
(1)ELECTOMETRIC	1 0 1 0 1	1 N		(iii)CHEMICAL	0 2 2 0 3	1 N	
(2)VISUAL TITRATION	1 0 1 0 2	1 N	1 6 2.0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5	1 N		(i)TITRATION	0 7 0 0 1	1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0 1	1 N		(ii)NESSELERIZATION	0 7 0 0 4	1 N	
BOD, mg/l	0 8 2 0 1	1 N		HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1	1 N	
COD, mg/L	0 8 3 0 1	1 N	1 8 7.7 2	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1	1 N	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3	3 N	4 0.0
(1)ARGENTOMETRIC	1 7 2 0 1	1 N	6 8.0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4	4 N	
(2)MERCURIMETRIC	1 7 2 0 1	1 N		AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5 5 5	5 N	
(1)GRAVIMETRIC	1 6 3 0 1	1 N		(ii)DISTILLATION TITRATION	0 7 5 5 1	1 N	
(2)TURBIDIMETRIC	1 6 3 0 2	1 N		BORON DISSOLVED, mg/L	0 5 1 0 5	5 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		NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3	1 N		SUSPENDED SOLID, mg/L			7 0.0
FECAL COLIFORM MPN/100ml	3 6 0 1 1	1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7	1 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 0 1 8 1 8 0 4 : 1 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 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. BH. LAI

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)ELECTOMETRIC	1 0 1 0 1 N		2 2 0 3 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			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6. 8	7 0 0 1 N	
BOD, mg/l	0 8 2 0 1 N		7 0 0 4 N	
CHLORIDE, mg/L	0 8 3 0 1 N	3 9. 5 2	2 1 0 1 N	1 0 2. 0
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 8. 0	7 0 0 1 N	
(2)MERCURIMETRIC	1 7 2 0 1 N		3 3 3 N	3 1 0. 0
SULPHATE, mg/L			4 4 4 N	
(1)GRAVIMETRIC	1 6 3 0 1 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N		7 5 5 N	
SODIUM, mg/L	1 1 1 0 3 N		7 5 5 1 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 1. 6	5 1 0 5 N	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1. 2 0		
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				
AMMONIUM NITROGEN, mg/L				
(i)COLOURIMETRY				
(ii)DISTILLATION TITRATION				
BORON DISSOLVED, mg/L				
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLI mg/L				

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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 0 0 8 1 8 0 4 : 3 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 SHEOVATH AT
 RAJNANDGAON
 TYPE : NEAR W/S INTAKE-WELL POINT
 COMPLETED BY : N K. PATEL
 VERIFIED BY : U.K.MANDAL
 AGENCY : R. O. C. E. S. BHILAI

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

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE 3 1 16 3

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 1 10 8 1 8 0 1 : 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 : 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 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: 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	QCFLAG	CODE	QCFLAG
TEMPERATURE, °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)ELECTROMETRIC	1 0 1 0 1 N		2 2 0 3 N	
(2)VISUAL TITRATION	1 0 1 0 2 N	1 1 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	6. 2		
BOD, mg/l	0 8 2 0 1 N			
COD, mg/L	0 8 3 0 1 N	1 4 8. 2		
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0 1 N	5 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 7. 5		
MAGNESIUM 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	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				
AMMONIUM NITROGEN, mg/L				
(i)COLOURIMETRY				
(ii)DISTILLATION TITRATION				
BORON DISSOLVED, mg/L				
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLI mg/L				

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEM'S
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 5
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 0 5 0 9 1 8 1 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
 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		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		
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 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 9 6 4		
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	1 7 2 0	1 N 3 2 0		
(2)MERCURIMETRIC	1 7 2 0	1 N		
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0	1 N	0 7 5 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 3 2		
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		
TURBIDITY, JT/UNTU				
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			0 7 0 0	1 N
(i)TITRATION			0 7 0 0	4 N
(ii)NESSELERIZATION			2 2 1 0	1 N 1 0 0
HARDNESS as CaCO ₃ , mg/L				
TOTAL COLIFORM, MPN/100ml			3 7 0 0	1 N
TOTAL DISSOLVED SOLIDS, mg/L			3 3 3 3	3 N 9 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
MINDATI/GLOWDAT

1. STATION CODE: 1 8 4 1 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 0 5 0 9 1 8 0 4 : 0 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: Cattle Wading Melon Farming Fishing Other

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

9. LOCATION DETAIL: Pilgrim Center/ Bath Gath Abstraction For Water Supply

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

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	ARBITRARY	
										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 . 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 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	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	1 1 8 . 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 7 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			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 8 . 0		NITRITE mg/L						
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 1 . 2 1		SUSPENDED SOLID, mg/L					8 0 . 0	
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N									
INSTANTANEOUS DISCHARGE, m	1 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): 0 5 0 9 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
 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 . 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 2 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 . 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 9 . 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	3 4 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	2 5 . 6		NITRITE mg/L			
MAGENESIUM 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						

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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 1 0 1 9 1 8 0 1 4 : 5 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 Fishing Other
 9. LOCATION DETAIL: U/s of Town or Industrial Area D/s of Town of Industrial Area Abstraction For Water Supply

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 . 4		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 0 . 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 . 3		(ii) NITROGEN	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 8 . 0	
COD, mg/L	0 8 3 0 1 N	2 9 . 6 4		TOTAL COLIFORM, MPN/100ml	7 0 0 1 N		
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	3 3 3 3 N	2 7 0 . 0	
(1) ARGENTOMETRIC	1 7 2 0 1 N	3 6 . 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 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	2 8 . 8		SUSPENDED SOLID mg/L		7 0 . 0	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 . 2 1					
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 1 0 9 1 8 0 4 : 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 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		ARBITRARY		VALUE
	CODE	AQCFLAG	CODE	AQCFLAG	
TEMPERATURE, °C	0 2 0 1 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		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 0 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				
BOD, mg/l	0 8 2 0 1 N		0 7 0 0 1 N		
COD, mg/L	0 8 3 0 1 N	2 9. 6 4	0 7 0 0 4 N		
CHLORIDE, mg/L		3 4. 0	2 2 1 0 1 N	1 1 0. 0	
(1)ARGENTOMETRIC	1 7 2 0 1 N		3 7 0 0 1 N		
(2)MERCURIMETRIC	1 7 2 0 1 N		3 3 3 3 3 N	2 6 0. 0	
SULPHATE, mg/L			4 4 4 4 4 N		
(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		0 7 5 5 5 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 3. 2	0 7 5 5 1 N		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N		0 5 1 0 5 N		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			7 0. 0	
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: 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 9 0 9 1 8 0 1 : 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 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: DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD
 COMPLETED BY: N. K. PATEL
 VERIFIED BY: U.K.MANDAL

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. 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 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. 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
COD, mg/L	0 8 3 0 1 N	1 1 8. 5	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	4 7. 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	2 3. 2	NITRITE mg/L	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 2. 1 9	SUSPENDED SOLI mg/L	1 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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(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) 3 0 1 0 1 8 0 3 : 5 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 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

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

DETERMINAND	WHO				ARBITRARY			
	CODE	QC	FLAG	VALUE	CODE	QC	FLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N	2	8		TURBIDITY, JTU/NTU	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	6 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	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 5 2	0
COD, mg/L	0 8 3 0 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 3 N	2 8 0	0
(1) ARGENTOMETRIC	1 7 2 0 1 N	1 6 6	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 6 3 0 1 N				(i) COLOURIMETRY	7 5 5 5 N		
(1) GRAVIMETRIC	1 6 3 0 2 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	3 7	6		PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 4	1 4		NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	3 6 0 1 1 N				SUSPENDED SOLID mg/L		9 0	0
FECAL COLIFORM MPN/100ml	1 9 7 1 6 7 N							
INSTANTANEOUS DISCHARGE, m								

(Signature)

(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): 3 0 1 0 1 8 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

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				DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE							
		0	2	0	0	1	N	2	8															
TEMPERATURE, °C		0	2	0	0	1	N	2	8					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	0	1	N					
ALKALINITY, mg/L														(ii)FLOATE	0	2	0	2	N					
(1)ELECTOMETRIC		1	0	1	0	1	N							(iii)CHEMICAL	0	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	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	1	0	0	
COD, mg/L		0	8	3	0	1	N	2	9	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	8	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	4	0				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
MINDAT/GLOWDAT

1. STATION CODE 3 1 6 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 3 0 1 0 1 8 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 TYPE : AFTER CONFLUENCE OF SAMODA NALLA

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

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	2 9				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 4 . 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					(i)TITRATION	0 7 0 0 4 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6 . 6				(ii)NESSELERIZATION	2 2 1 0 1 N	1 2 8 . 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 N	3 9 . 5 2				TOTAL COLIFORM, MPN/100ml	3 3 3 3 3 N	3 2 0 . 0	
CHLORIDE, mg/L						TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(1)ARGENTOMETRIC	1 7 2 0 1 N	3 8 . 0				FIXED DISSOLVED SOLIDS, mg/L			
(2)MERCURIMETRIC	1 7 2 0 1 N					AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L	1 6 3 0 1 N					(i)COLOURIMETRY	0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 2 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	3 0 . 4				PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 2 . 6 8				NITRITE, mg/L			
MAGENESIUM as CaCO ₃ , mg/L	3 6 0 1 1 N					SUSPENDED SOLID, mg/L		6 0 . 0	
FECAL COLIFORM MPN/100ml	1 9 7 1 6 7 N								
INSTANTANEOUS DISCHARGE, m									

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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): 3 0 1 0 1 8 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 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		ARBITRARY		VALUE
	CODE	AQCFLAG	CODE	AQCFLAG	
TEMPERATURE, °C	0 2 0 0	1 N 2 8	TURBIDITY, JT/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 4 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 3 9 . 5 2	HARDNESS as CaCO ₃ , mg/L	2 2 1 0	1 N 1 8 . 0
COD, mg/l	0 8 3 0	1 N 4 2 . 0	TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N
CHLORIDE, mg/l	1 7 2 0	1 N 4 2 . 0	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 2 9 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	1 6 3 0	1 N	(i) COLOURIMETRY	0 7 5 5	5 N
(1) GRAVIMETRIC	1 6 3 0	2 N	(ii) DISTILLATION TITRATION	0 7 5 5	1 N
(2) TURBIDIMETRIC	1 1 1 0	3 N 2 8 . 8	BORON DISSOLVED, mg/L	0 5 1 0	5 N
SODIUM, mg/L	2 0 1 0	1 N 2 8 . 8	PHOSPHATE, mg/L		
CALCIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 1 1 . 2 8	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
MINDAT/GLOWDAT

1. STATION CODE 1 8 4 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 3 0 1 0 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 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	2 8		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	5 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. 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 8. 0	
COD, mg/L	0 8 3 0 1 N	2 9. 6 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 9 0. 0	
(1)ARGENTOMETRIC	1 7 2 0 1 N	4 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 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 7. 2		NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 2. 1 9		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) 3 0 1 0 1 8 0 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

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 : 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	QC	FL	AG	CODE	QC	FL	AG
TEMPERATURE, °C	0 2 0 0	1 N	2 8		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	4 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	6 9		(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	4 8 0
COD, mg/L	0 8 3 0	1 N	3 9	5 2	TOTAL COLIFORM, MPN/100ml	7 0 0	1 N	
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3 3 3	3 N	2 8 0 0
(1) ARGENTOMETRIC	1 7 2 0	1 N	4 4	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	1 9	2	NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 1	7 0	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 1 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 0 1 0 1 8 0 4 : 5 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 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 CODE	AQCF	FLAG	VALUE	DETERMINAND	WHO CODE	AQCF	FLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N	2	8		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	4	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				(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	4	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	2	8	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	9	2	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
MINDAT/ GLOWDAT

1. STATION CODE: 3 1 6 3
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 0 1 0 1 8 0 1 : 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		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 0 1 N 3 0		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 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 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
COD, mg/L	0 8 3 0 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 9 0 . 0
(1) ARGENTOMETRIC	1 7 2 0 1 N 5 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 2 4 . 8		NITRITE mg/L	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 7 . 8 0		SUSPENDED SOLI mg/L	1 0 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 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 9 1 1 1 8 0 4 : 3 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 Pilgrim Center/Bath Gath Abstraction For Water Supply

STATION : RIVER KHAROON AT DURG
 UP STEAM NEAR DURG- RAIPUR
 ROAD - BRIDGE
 COMPLETED BY : SHIV PATEL
 VERIFIED BY : : N.C.MALVIYA
 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	1.4	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			HARDNESS as CaCO ₃ , mg/L	2 2 1 0 1 N	1	0.0
COD, mg/L	0 8 3 0 1 N		2.8	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
(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)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		2.2	NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N		1.0	SUSPENDED SOLID, mg/L			4.0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						



 Date: _____
 Name: _____

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 1 1 1 8 0 1 : 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 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
 TYPE: HITKASA TAILING DAM, RESERVIIR
 COMPLETED BY: SHIV PATEL
 VERIFIED BY: N.C. MALVIYA
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	WHO 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	0 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 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		6	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	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 N	6 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	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 4	0		NITRITE mg/L				
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	8	2 9		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/GEMS

1. STATION CODE: 3 1 6 4

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 0 1 1 1 8 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 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 Abstraction For

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

STATION: NEHRU NAGAR TALAB
BHILAI DIST. DURG

COMPLETED BY: SHIV PATEL

VERIFIED BY: N.C. MALVIYA

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

DETERMINAND	WHO		ARBITRARY		DETERMINAND	ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG		CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 0 1 N				TURBIDITY, JTU/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	1 2 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		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	1 3 0 0
COD, mg/L	0 8 3 0 1 N	1 1 4 2 4			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 N	8 4 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 6 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 0 7 3			SUSPENDED SOLI mg/L		6 0 0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m	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): 2 8 1 1 1 8 0 5 : 0 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 Abstraction For Water Supply
 9. LOCATION DETAIL: U/s of Town or Industrial Area Dis of Town or Industrial Area

STATION : RIVER SHEONATH AT RAJNANDGAON
 TYPE : NEAR MOHAD VILLAGE DOWN STEAM
 COMPLETED BY : SHIV PATEL
 VERIFIED BY : N.C.MALVIYA
 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)ELECTOMETRIC	1 0 1 0 1 N		2 2 0 3 N	
(2)VISUAL TITRATION	1 0 1 0 2 N	1 0 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	7 . 2		
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	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			
SODIUM, mg/L	1 1 1 0 3 N			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	1 1 0 . 0		
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	7 . 8		
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)DISTILLATION TITRATION				
BORON DISSOLVED, mg/L				
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLID mg/L				




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): 3 0 1 1 1 8 1 2 : 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 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: SHIV PATEL
 VERIFIED BY: N.C.MALVIYA
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	AQCF	FLAG	VALUE	ARBITRARY CODE	AQCF	FLAG	VALUE
TEMPERATURE, °C	02001N				TURBIDITY, JTU/NTU	02101N						
pH	10302N			7.6	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	1	3	0.0	TOTAL KJELDAHL NITROGEN, mg/L	07001N						
NITROGEN(NO ₃ +NO ₂), mg/L	07105N				(i)TITRATION	07004N						
DISSOLVED OXYGEN, mg/L	08101N			6.8	(ii)NESSELERIZATION	07001N						
BOD, mg/l	08201N				HARDNESS as CaCO ₃ , mg/L	22101N			1	18	0	
COD, mg/l	08301N			3.8	TOTAL COLIFORM, MPN/100ml	37001N						
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	33333N			2	30	0	
(1)ARGENTOMETRIC	17201N			4.2	FIXED DISSOLVED SOLIDS, mg/L	44444N						
(2)MERCURIMETRIC	17201N				AMMONIAM NITROGEN, mg/L							
SULPHATE, mg/L	16301N				(i)COLOURIMETRY	07555N						
(1)GRAVIMETRIC	16302N				(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			2.1	NITRITE mg/L							
MAGENESIUM as CaCO ₃ , mg/L	12103N			1.5	SUSPENDED SOLID, mg/L							60.0
FECAL COLIFORM MPN/100ml	36011N											
INSTANTANEOUS DISCHARGE, m ³	97167N											

Shiv 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 9 1 1 1 8 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 PROXIMIT: 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 KHARROON AT DURG
TYPE : AFTER KHAPRI NALLA
COMPLETED BY : SHIV PATEL
VERIFIED BY : L.N.C.MALVIYA
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY		VALUE
	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	5	
CONDUCTIVITY, µghos/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 1	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	7	0	
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	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			
SODIUM, mg/L	1 1 1 0	3 N			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	2 4	0	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 1	2 1	
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N			
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 N			
TURBIDITY, JTU/NTU			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 0 6
TOTAL COLIFORM, MPN/100ml			3 7 0 0	1 N	
TOTAL DISSOLVED SOLIDS, mg/L			3 3 3 3	3 N	2 2 0
FIXED DISSOLVED SOLIDS, mg/L			4 4 4 4	4 N	
AMMONIUM 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					6 0

(Handwritten signatures and initials)

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 8 1 1 1 8 0 4 : 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 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: SHIV PATEL
 VERIFIED BY: L.N.C.MALVIYA
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY		VALUE
	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			
CONDUCTIVITY, µhos/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	9.4			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N		0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N		0 7 0 0 4 N		
BOD, mg/l	0 8 2 0 1 N		2 2 1 0 1 N	7 2.0	
COD, mg/L	0 8 3 0 1 N	1 9.0 4	3 7 0 0 1 N		
CHLORIDE, mg/L		2 8.0	3 3 3 3 3 N	1 8 0.0	
(1)ARGENTOMETRIC	1 7 2 0 1 N		4 4 4 4 4 N		
(2)MERCURIMETRIC	1 7 2 0 1 N				
SULPHATE, mg/L			0 7 5 5 5 N		
(1)GRAVIMETRIC	1 6 3 0 1 N		0 7 5 5 1 N		
(2)TURBIDIMETRIC	1 6 3 0 2 N		0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N				
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	1 6.0			
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				
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					30.0

(Handwritten signatures and initials)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE _____

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

COMPLETED BY : SHIV PATEL
VERIFIED BY : N.C.MALVIYA
AGENCY : R. O. C. E. C. B. BHILAI

STATION: Tandula Dam Reserwire Water,
Balod, Distt.-Balod

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	AQCFLAG	VALUE	ARBITRARY	
							CODE	VALUE
TEMPERATURE, °C	02001N			TURBIDITY, JTU/NTU			02	101N
pH	10302N		7.23	VELOCITY OF FLOW, m/sec				
CONDUCTIVITY, µghos/cm	02041N			(i)CURRENT METER			02	201N
ALKALINITY, mg/L				(ii)FLOATE			02	202N
(1)ELECTOMETRIC	10101N			(iii)CHEMICAL			02	203N
(2)VISUAL TITRATION	10102N		58.00	TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			(i)TITRATION			07	001N
DISSOLVED OXYGEN, mg/L	08101N		7.4	(ii)NESSELERIZATION			07	004N
BOD, mg/l	08201N			HARDNESS as CaCO ₃ , mg/L			22	101N
COD, mg/L	08301N		19.20	TOTAL COLIFORM, MPN/100ml			37	001N
CHLORIDE, mg/L			28.00	TOTAL DISSOLVED SOLIDS, mg/L			33	33N
(1)ARGENTOMETRIC	17201N			FIXED DISSOLVED SOLIDS, mg/L			44	44N
(2)MERCURIMETRIC	17201N			AMMONIAM NITROGEN, mg/L				
SULPHATE, mg/L				(i)COLOURIMETRY			07	55N
(1)GRAVIMETRIC	16301N			(ii)DISTILATION TITRATION			07	551N
(2)TURBIDIMETRIC	16302N			BORON DISSOLVED, mg/L			05	105N
SODIUM, mg/L	11103N			PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	20101N		20.80	NITRITE, mg/L				
MAGNESIUM as CaCO ₃ , mg/L	12103N		11.70	SUSPENDED SOLID, mg/L				30.0
FECAL COLIFORM MPN/100ml	36011N							
INSTANTANEOUS DISCHARGE, m ³	97167N							

(Handwritten signatures and initials)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 1 1 1 1 1 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
DHAMDHA VILLAGE, DURG

TYPE : NEAR DURG DHAMDHA ROAD
BRIDGE

COMPLETED BY: SHIV PATEL

VERIFIED BY: N.C.MALVIYA

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

DETERMINAND	WHO		ARBITRARY		VALUE
	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
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			
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N			1.26
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N			7.1
BOD, mg/l	0 8 2 0	1 N			
COD, mg/L	0 8 3 0	1 N			3.8
CHLORIDE, mg/L					
(1)ARGENTOMETRIC	1 7 2 0	1 N			5.2
(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			1.8
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N			1.5
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					
AMMONIUM NITROGEN, mg/L					
(i)COLOURIMETRY					
(ii)DISTILLATION TITRATION					
BORON DISSOLVED, mg/L					
PHOSPHATE, mg/L					
NITRITE mg/L					
SUSPENDED SOLID mg/L					

Shiv Patel

Shiv Patel

Shiv Patel

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE **3171**
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) **28/12/18** **01:30 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 Moderate High

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

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

STATION : HAND PUMP WATER, SHANKAR
 NAGAR NEPALI MOHALLA, H.I.A., BHILAI, DISTT.-
 DURG (C.G.)

TYPE : HAND PUMP WATER

COMPLETED BY : SHIVPALEL

VERIFIED BY : N.C.MALVIYA

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

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCF	FLAG	VALUE
TEMPERATURE, °C	02001N				TURBIDITY, JTU/NTU	02101N			
pH	10302N			7.41	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				
DISSOLVED OXYGEN, mg/L	08101N			7.10	(ii)NESSELERIZATION	07004N			
BOD, mg/l	08201N				HARDNESS as CaCO ₃ , mg/L	22101N			108.00
COD, mg/L	08301N			3.8.00	TOTAL COLIFORM, MPN/100ml	37001N			
CHLORIDE, mg/L				52.00	TOTAL DISSOLVED SOLIDS, mg/L	33333N			210.00
(1)ARGENTOMETRIC	17201N				FIXED DISSOLVED SOLIDS, mg/L	44444N			
(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			1.8.40	NITRITE, mg/L				
MAGNESIUM as CaCO ₃ , mg/L	12103N			1.5.12	SUSPENDED SOLID, mg/L				60.00
FECAL COLIFORM MPN/100ml	36011N								
INSTANTANEOUS DISCHARGE, m	97167N								

(Handwritten signatures and initials)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE **3164**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) **28/12/18 04:55 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: **NEHRU NAGAR TALAB
BHILAI DIST.DURG**

COMPLETED BY: **SHIV PATEL**

VERIFIED BY: **I. N.C.MALVIYA**

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

DETERMINAND	WHO		ARBITRARY		VALUE
	CODE	AQCFLAG	CODE	AQCFLAG	
TEMPERTURE, °C	0200	1N			
pH	1030	2N			7.43
CONDUCTIVITY, µghos/cm	0204	1N			
ALKALINITY, mg/L					
(1)ELECTOMETRIC	1010	1N			
(2)VISUAL TITRATION	1010	2N			172.00
NITROGEN(NO ₃ +NO ₂), mg/L	0710	5N			
DISSOLVED OXYGEN, mg/L	0810	1N			6.80
BOD, mg/l	0820	1N			
COD, mg/L	0830	1N			161.84
CHLORIDE, mg/L					
(1)ARGENTOMETRIC	1720	1N			
(2)MERCURIMETRIC	1720	1N			
SULPHATE, mg/L					
(1)GRAVIMETRIC	1630	1N			
(2)TURBIDIMETRIC	1630	2N			
SODIUM, mg/L	1110	3N			
CALCIUM as CaCO ₃ , mg/L	2010	1N			161.84
MAGENESIUM as CaCO ₃ , mg/L	1210	3N			18.93
FECAL COLIFORM MPN/100ml	3601	1N			
INSTANTANEOUS DISCHARGE, m ³	9716	7N			
TURBIDITY, JTU/NTU	2101	1N			
VELOCITY OF FLOW, m/sec					
(i)CURRENT METER	2201	1N			
(ii)FLOATE	2202	2N			
(iii)CHEMICAL	2203	3N			
TOTAL KJELDAHL NITROGEN, mg/L					
(i)TITRATION	7001	1N			
(ii)NESSELERIZATION	7004	4N			
HARDNESS as CaCO ₃ , mg/L	2101	1N			162.00
TOTAL COLIFORM, MPN/100ml	7001	1N			
TOTAL DISSOLVED SOLIDS, mg/L	3333	3N			162.00
FIXED DISSOLVED SOLIDS, mg/L	4444	4N			
AMMONIAM NITROGEN, mg/L					
(i)COLOURIMETRY	7555	5N			
(ii)DISTILATION TITRATION	7551	1N			
BORON DISSOLVED, mg/L	5105	5N			
PHOSPHATE, mg/L					
NITRITE mg/L					
SUSPENDED SOLII mg/L					40.00







MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/ GLOWDAT

1. STATION CODE: **1845**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **27/12/18 11:00 AM**

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 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 WIS INTAKE WELL POINT
COMPLETED BY : SHIV PATEL
VERIFIED BY : N.C.MALVIYA
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	WHO CODE	AQCF	FLAG	VALUE
TEMPERATURE, °C	0210	1N			TURBIDITY, JTU/NTU	0210	1N		
pH	1030	2N		7.50	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		68.00	TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	0710	5N			(i)TITRATION	0700	1N		
DISSOLVED OXYGEN, mg/L	0810	1N		7.20	(ii)NESSELERIZATION	0700	4N		
BOD, mg/l	0820	1N			HARDNESS as CaCO ₃ , mg/L	2210	1N	102	00
COD, mg/L	0830	1N		19.04	TOTAL COLIFORM, MPN/100ml	3700	1N		
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3333	3N		
(1)ARGENTOMETRIC	1720	1N		34.00	FIXED DISSOLVED SOLIDS, mg/L	4444	4N		
(2)MERCURIMETRIC	1720	1N			AMMONIAM NITROGEN, mg/L				
SULPHATE, mg/L					(i)COLOURIMETRY	0755	5N		
(1)GRAVIMETRIC	1630	1N			(ii)DISTILATION TITRATION	0755	1N		
(2)TURBIDIMETRIC	1630	2N			BORON DISSOLVED, mg/L	0510	5N		
SODIUM, mg/L	1110	3N			PHOSPHATE, mg/L				
CALCIUM as CaCO ₃ , mg/L	2010	1N		19.00	NITRITE mg/L				
MAGNESIUM as CaCO ₃ , mg/L	1210	3N		13.17	SUSPENDED SOLID,mg/L			30	00
FECAL COLIFORM MPN/100ml	3601	1N							
INSTANTANEOUS DISCHARGE, m ³ /	9716	7N							

Shiv Patel *Shiv Patel*

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: **3166**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **28/12/18 12:10 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: RIVER SHEONATH AT
JHINJHRI VILLAGE, DURG

TYPE: AFTER CONFLUENCE OF SAMODDA
NALLA

COMPLETED BY: SHIV PATEL

VERIFIED BY: N.C.MALVIYA

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

DETERMINAND	WHO	CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY	CODE	AQCFLAG	VALUE											
										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
TEMPERATURE, °C	020	01N			TURBIDITY, JT/UNTU	021	01N													
PH	103	02N		7.42	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		136	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		112											
COD, mg/L	083	01N		28	TOTAL COLIFORM, MPN/100ml	370	01N		220											
CHLORIDE, mg/L				62	TOTAL DISSOLVED SOLIDS, mg/L	333	33N		00											
(1)ARGENTOMETRIC	172	01N			FIXED DISSOLVED SOLIDS, mg/L	444	44N													
(2)MERCURIMETRIC	172	01N			AMMONIAM NITROGEN, mg/L															
SULPHATE, mg/L					(i)COLOURIMETRY	075	55N													
(1)GRAVIMETRIC	163	01N			(ii)DISTILATION TITRATION	075	51N													
(2)TURBIDIMETRIC	163	02N			BORON DISSOLVED, mg/L	051	105N													
SODIUM, mg/L	111	03N			PHOSPHATE, mg/L															
CALCIUM as CaCO ₃ , mg/L	201	01N		50	NITRITE, mg/L															
MAGNESIUM as CaCO ₃ , mg/L	121	03N		62	SUSPENDED SOLID, mg/L				70											
FECAL COLIFORM MPN/100ml	360	11N																		
INSTANTANEOUS DISCHARGE, m ³	971	167N																		

SHIV PATEL

ON

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 2 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 PROXIMITY: Cattle Wading Fishery Other

8. HUMAN ACTIVITIES AROUND STATION: Pilgrim Center/Bath Fishing Other

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

STATION : RIVER KHAROON AT DURG
TYPE : AFTER CONFLUENCE OF KHAPRI NALLA
COMPLETED BY : SHIV PATEL
VERIFIED BY : L.N.C.MALVIYA
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	AQCF	FLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 1	N		TURBIDITY, JT/UNTU	0 2	1 0 1 1	N
pH	1 0 3 0	2 1	N	7.4	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µhos/cm	0 2 0 4	1 1	N		(i) CURRENT METER	0 2	2 0 1 1	N
ALKALINITY, mg/L					(ii) FLOATE	0 2	2 0 2 1	N
(1) ELECTOMETRIC	1 0 1 0	1 1	N		(iii) CHEMICAL	0 2	2 0 3 1	N
(2) VISUAL TITRATION	1 0 1 0	2 1	N	2.4	TOTAL KJELDAHL NITROGEN, mg/L	0 7	0 0 1 1	N
NITROGEN (NO ₃ +NO ₂), mg/L	0 7 1 0	5 1	N	7.0	(i) NITRATION	0 7	0 0 4 1	N
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 1	N		(ii) NITROSELENERAZATION	2 2	1 0 1 1	N
BOD, mg/l	0 8 2 0	1 1	N		HARDNESS as CaCO ₃ , mg/L	3 7	0 0 1 1	N
COD, mg/L	0 8 3 0	1 1	N	3.0	TOTAL COLIFORM, MPN/100ml	3 7	0 0 1 1	N
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3 3	3 3 3 1	N
(1) ARGENTOMETRIC	1 7 2 0	1 1	N	4.2	FIXED DISSOLVED SOLIDS, mg/L	4 4	4 4 4 1	N
(2) MERCURIMETRIC	1 7 2 0	1 1	N		AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L					(i) COLOURIMETRY	0 7	5 5 5 1	N
(1) GRAVIMETRIC	1 6 3 0	1 1	N		(ii) DISTILLATION TITRATION	0 7	5 5 1 1	N
(2) TURBIDIMETRIC	1 6 3 0	2 1	N		BORON DISSOLVED, mg/L	0 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	4.2	NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 1	N	1.3	SUSPENDED SOLID, mg/L			5.0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 1	N					0.0
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6	7 1	N					

(Handwritten signatures and initials)

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 2 1 8 0 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 industrial area Dis 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 : SHIV PATEL
 VERIFIED BY : N.C.MALVIYA
 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 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		9 4. 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 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 2. 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 1 0. 0 0
(1)ARGENTOMETRIC	1 7 2 0 1 N		3 8. 0 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 0	NITRITE mg/L			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N		1 3. 1 7	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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[Signature]

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE **3167**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) **21/12/18 05:10 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 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 MOHAD VILLAGE DOWN STEAM
COMPLETED BY : SHIV PATEL

VERIFIED BY : N. C. MALVIYA
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQCFLAG	VALUE
TEMPERATURE, °C	02001N			TURBIDITY, JT/UNTU	2101N		
pH	10302N		7.40	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	02041N			(i) CURRENT METER	2201N		
ALKALINITY, mg/L				(ii) FLOATE	2202N		
(1) ELECTOMETRIC	10101N			(iii) CHEMICAL	2203N		
(2) VISUAL TITRATION	10102N	112	00	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	07105N			(i) TITRATION	7001N		
DISSOLVED OXYGEN, mg/L	08101N		7.20	(ii) NESSELERIZATION	7004N		
BOD, mg/l	08201N			HARDNESS as CaCO ₃ , mg/L	2101N		10200
COD, mg/L	08301N		28.80	TOTAL COLIFORM, MPN/100ml	7001N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3333N		20000
(1) ARGENTOMETRIC	17201N		48.00	FIXED DISSOLVED SOLIDS, mg/L	4444N		
(2) MERCURIMETRIC	17201N			AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	7555N		
(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		52.00	NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	12103N		50.00	SUSPENDED SOLI mg/L			4000
FECAL COLIFORM MPN/100ml	36011N						
INSTANTANEOUS DISCHARGE, m ³ /97167N							

Patel

Shiv Patel

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 1 1 2 1 8 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 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: RIVER SHEONATH AT RAJNANDGAON
 TYPE: NEAR W/S INTAKE-WELL POINT
 COMPLETED BY: SHIV PATEL
 VERIFIED BY: U.N.C.MALVIYA
 AGENCY: R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		DETERMINAND		ARBITRARY		
	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		7.32	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	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		7.20	(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 0
COD, mg/L	0 8 3 0 1 N		1.9	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L			4.6	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N		1 9 0 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	NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N		1.1	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						

Shiv Patel

Shiv Patel

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: **31613**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **29.12.18 01.10 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 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: **DALLI RAJHARA IRON ORE MINES, DALLI RAJHARA, DIST. BALOD**

TYPE: **HITKASA TAILING DAM, RESERVOIR**

COMPLETED BY: **SHIV PATEL**

VERIFIED BY: **U. N.C. MALVIYA**

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

DETERMINAND	WHO		DETERMINAND		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG	CODE	VALUE
TEMPERATURE, °C	021001N		TURBIDITY, JT/NTU	2101N		
pH	10302N	7.00	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	02041N		(i) CURRENT METER	2201N		
ALKALINITY, mg/L			(ii) FLOATE	2202N		
(1) ELECTOMETRIC	10101N		(iii) CHEMICAL	2203N		
(2) VISUAL TITRATION	10102N	134.00	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	07105N		(i) TITRATION	7001N		
DISSOLVED OXYGEN, mg/L	08101N	6.00	(ii) NESSELERIZATION	7004N		
BOD, mg/l	08201N		HARDNESS as CaCO ₃ , mg/L	2101N	96.00	
COD, mg/L	08301N	134.00	TOTAL COLIFORM, MPN/100ml	7001N		
CHLORIDE, mg/L			TOTAL DISSOLVED SOLIDS, mg/l	3333N	460.00	
(1) ARGENTOMETRIC	17201N	72.00	FIXED DISSOLVED SOLIDS, mg/L	4444N		
(2) MERCURIMETRIC	17201N		AMMONIAM NITROGEN, mg/L			
SULPHATE, mg/L			(i) COLOURIMETRY	7555N		
(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	24.8	NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	12103N	8.29	SUSPENDED SOLID mg/L		130.00	
FECAL COLIFORM MPN/100ml	36011N					
INSTANTANEOUS DISCHARGE, m ³	97167N					

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[Handwritten Signature]

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 2 0 1 1 8

3. WEATHER

Cleddy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

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

5. COLOUR & INTENSITY ODOUR

Clear Turbit Green Brown 1 = Light 2 = Moderate 3 = High
None Fishy H-S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

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 Fishing 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 & S. Singh, Lab. Asst.-II

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

ARBITRARY DETERMINAND CODE

TEMPERATURE	0	2	0	0	1	N	2	5	8	ACQFLAG	VALUE
pH	1	0	3	0	2	N	7	1	9		
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N					
ALKALINITY mg/L						N	8	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	4			
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	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	3	0	0		
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N					
PRECIPITATION DISCHARGE M ³ /s											

DETERMINAD	CODE	ACQFLAG	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	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 3 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			

Bhaskar

ANALYSED BY

Chemist

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

3 1 6 9
2 7 2 0 1 1 8
1 1 5 0

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

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

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

Clear	Turbid	Green	Brown	1 - Light	2 - Moderate	3 - High
None	Fishy	H ₂ S	Other			
				None	Moderate	High
U/S of Town of Industrial Area		Cattle Wading D/S of Town of Industrial Area		Fishing Abstraction for Water Supply		

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
8. HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

ARBITRARY DETERMINAND

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

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

Analysed By

Chemist

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3 1 6 8

2 7 0 1 1 8

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

Cloudy	Clear	Windy	Raining
< 50 cm.	30-100 cm.	> 100cm	Flood

STATION- Down Stream of Hosdev River
Near Urga Village Korba
TYPE- River Water

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

COLOUR & INTENSITY
ODOUR

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None	Moderate	High
Cattle Wading	Melon-farming	Fishing

HUMAN ACTIVITIES AROUND STATION

LOCATION DETAIL

U/S of Town or Industrial Area	D/S of Town or 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 . 5			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		N 8 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			
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 7 6 . 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 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			
SULPHATE mg/L		N 1 2 . 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 6 . 0			NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 4 0 . 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

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

1. STATION CODE

3 1 6 5

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

1 1 3 5

3. WEATHER

Cloudy Clear Windy Retaining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 50-100 cm. > 100 cm. POOR

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

D/S of Town of Industrial Area Pilgrim-Centre Abstraction for Bathing Ghat 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

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 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 KILDAHL NITROGEN mg/L			
urate 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 1 0			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 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 9 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				(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 4 0			NITRITE mg/L			
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

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

STATION CODE: 1 1 0 5
 DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 8 0 1 1 8
 WEATHER: Cloudy Clear Windy Raining
 APPROX DEPTH OF MAIN STREAM: < 50 cm. 50-100 cm. > 100 cm.
 COLOUR & INTENSITY ODOUR: Clear Turbid Green Brown Light 2 2 Moderate 3 High
 None Fishy H₂S Other

MINDA T/GLOW DAT

STATION- Up Stream of Hasdeo Bango, Hydrel 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

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT: None Moderate High

HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL:
 U/S of Town of Industrial Area: Cattle Wading, D/S of Town of Industrial Area, Pilgrim Centre/ Bathing Ghat, Abstraction for Water Supply, Motor Farming, Fishing

ARBITRARY DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N	2 5 4		TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7 1 7		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 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	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	6 8 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 9 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		
(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]*

Checked by: *[Signature]*

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

1	1	0	5
2	4	0	2
1	2	5	0

Cloudy	Clear	Windy	Raining
--------	-------	-------	---------

< 50 cm.	50-100 cm.	> 100cm
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Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fishy	H ₂ S	Other					

None	Moderate	High
------	----------	------

Cattle Wading	Mston-farming	Fishing
D/S of Town of Industrial Area	Pilgrim Centre/ 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 PROXIMIT
- HUMAN ACTIVITIES AROUND STATION
- LOCATION DETAIL

ARBITRARY DETERMINAND CODE

DETERMINAND	CODE	AQFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5 6	
pH	1	0 3 0 2 N 7 2 2	
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N	
ALKALINITY mg/L		N 7 4	
(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 1 8 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 3 2 0	
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE M ³ /s			

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 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 0 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 6	
NITRITE mg/L		0 0 3	

Analysed By
B.P. Mishra

Chemist

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 6 0 2 1 8

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. 30-100 cm. > 100 cm. 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

US of Town of D/S of Town of Pilgrimage Centre Abstraction for Industrial Area Bathing Ghat Water Supply

STATION- 100 Meter Down Stream after confluence of Denguinallah 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	AQFLAG	VALUE
TEMPERATURE	0 2 0 0 1	N 2 5 . 6	
pH	1 0 3 0 2	N 7 . 3 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 . 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 . 8	
C.O.D mg/L	0 8 3 0 1	N 1 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 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 6 . 0	
FECAL COLIFORM MPN/100 ML	3 6 0 1 1	N	
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAD	CODE	AQFLAG	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 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 1 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 . 6	
NITRITE mg/L		0 . 0 6	

Analysed By

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

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

3 1 6 8
1 6 0 2 1 8
0 2 3 0

STATION- Down Sirem 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

- 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

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

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

None	Moderate	High
Cattle Wading	Melon-farming	Fishing

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	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 3 9		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			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 4		(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 1 2		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 2 0		TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
CHLORIDE mg/L			0	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			0 5
SULPHATE mg/L			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 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

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

STATION CODE
3 1 6 9

DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)
1 9 0 2 1 8

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

COLOUR & INTENSITY ODOUR
Clear Turbid Green Brown 1 = Light 2 = Moderate 3 = High
None Fishy H₂S Other None Moderate High

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
None Moderate High

HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL
U/S of Town of Industrial Area Cattle Wading D/S of Town of Industrial Area Fishing. Abstraction for Bathing Ghat 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

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5	8
pH	1	0 3 0 2 N 7	2 1
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	3
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 7	2
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 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 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	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 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 1 6 . 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 . 5
NITRITE mg/L			0 . 0 2

Analysed By
B.P. Mishra

Checked By
C. G. Environment Conservation Board, Korba

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 2 0 2 1 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 1 = 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

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon-farming Fishing

9. LOCATION DETAIL

U/S of Town of Industrial Area Industrial Area Bathing Ghat Water Supply

AGENCY - C.G. Environment Conservation Board, Korba

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0	1 N 2 5 . 9	TURBIDITY JTU/NTU	0	2 1 0	1 N
pH	1	0 3 0	2 N 7 . 3 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 . 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 . 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 . 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 0 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 4 . 0				
FECAL COLIFORM MPN/100 ML	3	6 0 1	1 N				
INSTANTANEOUS DISCHARGE M ³ /s							

B.P.M. Mishra
Analysed By

Chemist

[Signature]

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

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

2 3 0 3 1 8

0 3 4 8

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. 30-100 cm. > 100 cm. - Frost

5. COLOUR & INTENSITY
ODOUR

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

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishy H.S. Other None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

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

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N	2 5 . 9		TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7 . 2 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 8 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 . 4		(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		
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 2 . 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		N 2 1 . 9 9		TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	2 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			
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			
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 4 . 0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

B.P. Mishra
Analysed By

Chemist

Regional officer

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

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

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

1. STATION CODE

3 1 6 9

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

2 3 0 3 1 8

3. WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	30-100 cm.	> 100 cm.	1 2 3 0

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY ODOUR

Clear	Furrid	Green	Brown	Light	2 = Moderate	3 = High
None	Fishy	F.S.	Other	None	Moderate	High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

U/S of Town/Industrial Area	Cattle Wading	Melon Farming	Fishing
Industrial Area	D/S of Town/Industrial Area	Pilgrim Centre	Abstraction for Water Supply

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

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

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5	8	
pH	1 0 3 0 2 N 7	2 4	
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 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 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 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 4	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			

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 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 1 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	4
NITRITE mg/L		0	0 3

Analysed By

Checked

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3 1 6 8

0 2 5 0

2 8 0 3 1 8

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	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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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	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5	9	TURBIDITY JT/UNTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N 7	3 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 KILDAHL 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 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 7	0
C.O.D mg/L	0	8 3 0 1 N 2	4	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
(i) ARGENTOMETRIC	1	7 2 0 1 N	9	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	NITRITE (NO ₂) mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3	4				
FECAL COLIFORM MPN/100 MIL	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 3 0 3 1 8

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

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

5. COLOUR & INTENSITY ODOUR

Clear Turbid Brown 1-2 Moderate 3- High None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading

9. LOCATION DETAIL

U/S of Town of Industrial Area D/S of Town of Industrial Area Pilgrin-Centre Bathing Ghai 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	DETERMINAD	CODE	AQCFLAG								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	3	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						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	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	1	0			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	1	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	1		
(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	5		
CALCIUM AS CaCO ₃ mg/L	2	0	1	0	1	N	3	4	0		NITRITE mg/L							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																					

Analysed By
B.P. Mishra

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

1 1 0 5
3 1 0 3 1 8
1 2 5 0

STATION CODE
DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)
WEATHER
APPROX DEPTH OF MAIN STREAM

STATION- Up Stream of Hasdeo Bango,
Hydel Power Station, Machadoli, Korba
TYPE - River Water

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

1. STATION CODE
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)
3. WEATHER
4. APPROX DEPTH OF MAIN STREAM

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

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

5. COLOUR & INTENSITY
ODOUR

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

None Moderate High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

Cattle Wading Fishing
Pilgrim Centre/ Abstraction for
Industrial Area Baffling Ghat Water Supply

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

ARBITRARY DETERMINAND	CODE	AOQFLAG	VALUE	DETERMINAND	AOQFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5	5		TURBIDITY JT/UNTU	0 2 1 0 1 N	
pH	1 0 3 0 2 N 7	2 0		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 0	1		(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	6 8 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 0 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 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	6 0		NITRITE mg/L		0 0 2
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

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

0 3 3 0

2 4 0 4 1 8

0 3 0

STATION- Before Confluence of Hasdeo river
Chapara village 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

Cloudy	Clear	Windy	Rainning

< 50 feet	5-7feet.	> 100feet	Flood
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Clear	Turbid	Green	Brown	1 = Light	2 = Moderate	3 = High
None	Fishy	H ₂ S	Other			
				Moderate	High	

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	

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

HUMAN ACTIVITIES AROUND STATION
LOCATION DETAIL

ARBITRARY DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAD	CODE	AQFLAG	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	2 0		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 5 3	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	4		(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 1 2	0		(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 7 2	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 2 1	9 9	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 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			AMMONICAL NITROGEN mg/L			0 4
SULPHATE mg/L		N 1 2	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 8	0		NITRITE mg/L			0 0 6
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

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

1. STATION CODE

3 1 7 4

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

2 4 0 4 1 8

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 1 = Light 2 = Moderate 3 = High
None Fishy H₂S Other None Moderate High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

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

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

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
TEMPERATURE	0 2 0 0 1 N 2 6 5		
pH	1 0 3 0 2 N 7 1 7		
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 1 5 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 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 2		
C.O.D mg/L	0 8 3 0 1 N 4 0		
CHLORIDE mg/L		N 3 3 9 2	
(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 4 2 0		
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 6 0		
FECAL COLIFORM MPNI/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 8 0		
TOTAL COLIFORM MPNI/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 9 0 0		
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L			0 2
(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		0 8
PHOSPHATE mg/L			N 1 L
NITRITE mg/L			

Analysed By

[Signature]

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

STATION- Bore well / hand pump in pearsabhata
Balco 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

3 1 7 3
2 4 0 4 1 8

0 1 4 0

Cloudy	Clear	Windy	Raining
<50 feet	50-100 feet	>100feet	Flood

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

U/S of Town of Industrial Area	Cattle Wading D/S of Town of Industrial Area	Melon farming Pilgrim-Centre/ Bathing Ghat	Fishing Abstraction for Water Supply
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- 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	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 6 8	
pH	1	0 3 0 2 N 7 1 9	
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N	
ALKALINITY mg/L		N 2 3 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 1 L	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 1 2	
B.O.D. mg/L	0	8 2 0 1 N 0 4	
C.O.D mg/L	0	8 3 0 1 N 1 0 0	
CHLORIDE mg/L		N 3 8 9 8	
(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 7 2 0	
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 8 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 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 5 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 7 8 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			1 6
NITRITE mg/L			N 1 L

B.P. Mishra
Analysed By

Chemist

Regional Officer

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

1. STATION CODE

3 1 7 2

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

2 0 0 4 1 8

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH

< 40 feet 50-100 feet > 100 feet 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
D/S of Tower of Pilgrim Centre Abstraction for
Industrial Area Bathing Ghat Water Supply

8. HUMAN ACTIVITIES AROUND STATION

U/S of Town of Industrial Area

9. LOCATION DETAIL

STATION- Bore well / hand pump in rogahari village 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	AQCLAG						VALUE
TEMPERATURE	0	2	0	0	1	N	2 6 6	
pH	1	0	3	0	2	N	7 2 3	
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N		
ALKALINITY mg/L						N	1 6 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	1 L 4	
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	1 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 9 8	
CHLORIDE mg/L						N	4 0	
(i) ARGENTOMETRIC	1	7	2	0	1	N		
(ii) MERCURIMETRIC	1	7	2	0	1	N	1 8 0	
SULPHATE mg/L						N	1 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	5 4 0	
MAGNESIUM AS CaCO ₃ mg/L	1	2	1	0	3	N	4 0 0	
FECAL COLIFORM MPN/100 ML	3	6	0	1	1	N		
INSTANTANEOUS DISCHARGE M ³ /s								

DETERMINAD	CODE	AQCLAG						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 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	9 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 8 1 0	
FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N		
AMMONICAL NITROGEN mg/L							0 2	
(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							1 4	
NITRITE mg/L							N I L	

B. P. Mishra
Analysed By

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1. STATION CODE

3 1 7 0

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

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

1 9 0 4 1 8

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

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

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

TYPE- River Water

5. COLOUR & INTENSITY

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

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

6. ODOUR

None Fishy H₂S Other None

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

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

Cattle Wading D/S of Lower of Industrial Area

Other

8. HUMAN ACTIVITIES AROUND STATION

Melon farming Fishing Pilgrim-Centre Abstraction for Bathing Ghat Water Supply

9. LOCATION DETAIL

U/S of Tower of Industrial Area

ARBITRARY DETERMINAND	CODE	AOQFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 6	3	
pH	1 0 3 0 2 N 7	2 8	
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 8 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	3	
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 7	8	
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 2	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 4	0	
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			

DETERMINAD	CODE	AOQFLAG	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 3 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 0 3	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		0 4
PHOSPHATE mg/L		0	0 2
NITRITE mg/L			

Analysed By

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

3 1 6 9

1 2 4 0

1. STATION CODE

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

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

3. WEATHER

4. APPROX DEPTH OF MAIN STREAM

Clear	Turbid	Green	Brown	1 = Light	2 = Moderate	3 = High
None	Fishy	H+S	Other			

5. COLOUR & INTENSITY

ODOUR

Moderate	High
Melon-farming	Fishing
Pilgrim-Centre	Abstraction for
Bathing Ghat	Water Supply

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

Cattle Wading	
D/S of Town of	
Industrial Area	

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

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

Regional Officer

Signature

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

STATION CODE	3	1	6	8
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DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	3	0	4	1	8
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WEATHER	Cloudy	Clear	Windy	Raining
	< 50 cm.	> 100 cm.	> 100 cm.	Foot

APPROX DEPTH OF MAIN STREAM	Clear	Turbid	Brown	High
	None	Fishty	H ₂ S	Other

COLOUR & INTENSITY ODOUR	None	Green	Brown	High
		H ₂ S	Other	

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	None	Moderate	High

HUMAN ACTIVITIES AROUND STATION	Cattle Wading	Melon farming	Fishing
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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	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N	26.4	TURBIDITY JT/UNTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N	7.35	VELOCITY OF FLOW. m/sec	0	2 2 0 1 N	
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N		(i) CURRENT METER	0	2 2 0 2 N	
ALKALINITY mg/L		N 7 6 . 0		(ii) FLOT	0	2 2 0 3 N	
(i) ELECTROMETRIC	1	0 1 0 1 N		(iii) CHEMICAL			
(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	8	(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	68.0
C.O.D mg/L	0	8 3 0 1 N	26.0	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	221.0
(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			0.7
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N	32.0	NITRITE mg/L			0.06
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N	36.0				
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Chief

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINDA T/GLOW DAT

STATION- 100 Meter Down Stream after confluence of Dengurnallah 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
Other

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR				
3	1	6	5	
2	3	0	4	1 8
1	1	4	0	
Cloudy	Clear	Windy	Clear	Rainning

< 50 cm.	50-100 cm.	> 100cm
Clear	Green	Brown
None	Fisty	Other

1- Light	2- Moderate	3- High
None	Moderate	High
U/S of Town of Industrial Area	Cattle Wading D/S of Town of Industrial Area	Melon farming Fishing- 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 PROXIMIT
- HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

ARBITRARY DETERMINAND	CODE	AQCLAG						VALUE	
TEMPERATURE	0	2	0	0	1	N	2	6	3
pH	1	0	3	0	2	N	7	3	2
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	7	2	
B.O.D. mg/L	0	8	2	0	1	N	1	2	
C.O.D mg/L	0	8	3	0	1	N	2	0	0
CHLORIDE mg/L						N	2	1	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	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	AQCLAG						VALUE
TURBIDITY JT/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	4
TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N		
TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	2	1
FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N		
AMMONICAL NITROGEN mg/L						N	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						N	0	6
NITRITE mg/L						N	0	0

Analysed By
B.P. Mishra

Checked
Chandest

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

1 1 0 5
2 4 0 4 1 8

1 2 2 5

1. STATION CODE

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

3. WEATHER

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY
ODOUR

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cloudy Clear Windy Raining
-Flood

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

Clear Turbid Green Brown Light 2 2 = Moderate 3 = High
None Fishy H₂S Other

None Moderate High

Cattle Wading Fishing
U/S of Town of D/S of Town of Pilgrim Centre/ Abstraction for Industrial Area Baffing Ghat Water Supply

Meton farming Fishing
Other

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

ARBITRARY DETERMINAND	CODE	QCFLAG	VALUE	QCFLAG	VALUE
TEMPERATURE	0 2 0 0 1	N 2 6	3		
pH	1 0 3 0 2	N 7	1 8		
CONDUCTIVITY μmhos/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	1		
DISSOLVED OXYGEN mg/L	0 8 1 0 1	N 7	6		
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 9	9 9		
(i) ARGENTOMETRIC	1 7 2 0 1	N			
(ii) MERCURIMETRIC	1 7 2 0 1	N	6 - 0		
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 3 2	0		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1	N			
INSTANTANEOUS DISCHARGE M ³ /s					
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 1 9 7	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 6		
NITRITE mg/L			0 0 4		

ARBITRARY DETERMINAND	CODE	QCFLAG	VALUE
TEMPERATURE	0 2 0 0 1	N 2 6	3
pH	1 0 3 0 2	N 7	1 8
CONDUCTIVITY μmhos/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	1
DISSOLVED OXYGEN mg/L	0 8 1 0 1	N 7	6
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 9	9 9
(i) ARGENTOMETRIC	1 7 2 0 1	N	
(ii) MERCURIMETRIC	1 7 2 0 1	N	6 - 0
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 3 2	0
FECAL COLIFORM MPN/100 ML	3 6 0 1 1	N	
INSTANTANEOUS DISCHARGE M ³ /s			

Analysed By
Bhavya

Chemist

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 8 0 5 1 8

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. > 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 Fishing
D/S of Town of Industrial Area Bathing Ghat Water Supply
U/S of Town of Industrial Area Bathing Ghat Water Supply

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N	2 6 4		TURBIDITY JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N	7 2 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 8 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 2		(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		
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	6 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 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		N		(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 8 0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Chemist

Registered officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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 kohadria 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

1. STATION CODE 3 1 6 9

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

3. WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	50-100 cm.	> 100cm	—ftood

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	None	Moderate	High		

6. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

7. HUMAN ACTIVITIES AROUND STATION
 LOCATION DETAIL

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

ARBITRARY DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 6	3	TURBIDITY JTU/NTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N 7	2 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	0	(iii)CHEMICAL	0	2 2 0 3 N	
(ii) VISUAL TITRATION	1	0 1 0 2 N		TOTAL KJL DAHL 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
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	0 1 0
(i) ARGENTOMETRIC	1	7 2 0 1 N	9 9	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	4 0	NITRITE mg/L			
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

Regd Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3 1 6 8

2 3 0 5 1 8

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

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

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

None	Moderate	High
Cattle Wading	Melon-farming	Fishing

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

DETERMINAND	CODE	AQFLAG	VALUE	DETERMINAD	CODE	AQFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5	4		TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7	3 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			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 7	2		(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	6	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			9 8	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2	1	6
(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			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			1
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3	4	0	NITRITE (NO ₂) mg/L			0
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3	2	0				0
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Cheekist

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 3 0 5 1 8

3. WEATHER

Cloudy Clear Windy Remaining

4. APPROX DEPTH OF MAIN STREAM

< 50 cm. ~50-100 cm. >100cm

Flood

5. COLOUR & INTENSITY
ODOUR

Clear Turbid 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 Fishing
U/S of Town of D/S of Town of
Industrial Area Bathing Ghat Water Supply

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

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

ARBITRARY

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

Analysed By

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

1 1 0 5

2 7 0 5 1 8

Cloudy Clear Windy Raining

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

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

None Moderate High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading	Mechan farming	Fishing
D/S of Town 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 . 2			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 8 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			
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N 0 . 1			(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 4 . 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 1 8 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 . 2
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 4 0 . 0			NITRITE mg/L			0 . 0 3
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 *B.P. Mishra*
Checked by *[Signature]*
Registered Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINDA T/G L O W D A T
0 1 1 1 5

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

1. STATION CODE
3 1 6 8

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)
1 9 0 6 1 8

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 - H₂S - 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	AQFLAG	VALUE	DETERMINAD JT/UNTU	CODE	AQFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 6	0	0	TURBIDITY JT/UNTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7	2	6	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 8 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			
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	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 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 7	9 9	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 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			AMMONICAL NITROGEN mg/L			0 7
SULPHATE mg/L		N 1 2	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		1 0
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L			0 0 7
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 6	0		NITRITE (NO ₂) mg/L			
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							

Analyse By *[Signature]*

Chemist

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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.

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 2 0 6 1 8

Cloudy Clear Windy Raining

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

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

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

1. STATION CODE

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

3. WEATHER

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY
 ODOUR

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

ARBITRARY DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 6 2		
pH	1 0 3 0 2 N 7 2 4		
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L	N 8 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 4		
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 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 3 8 0		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAND	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 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 2 0 3 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		0 4
PHOSPHATE mg/L			0 0 3
NITRITE mg/L			

Analysed By

Chemist

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

1. STATION CODE	3 1 6 9
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1 2 0 6 1 8
3. WEATHER	Cloudy Clear Windy Raining < 50 cm. 50-100 cm. > 100 cm. — Foot
4. APPROX DEPTH OF MAIN STREAM	1 2 3 5

5. COLOUR & INTENSITY ODOUR	Clear	Furbid	Green	Brown 1	Light 2	Moderate 3	High
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	None	Fishy	H/S	Other	None	Moderate	High
8. HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL	U/S of Town of Industrial Area		Cattle Wading	Melon farming	Fishing	Abstraction for Water Supply	

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 1 0 1 N		
pH	0 2 2 0 1 N		
CONDUCTIVITY μ mhos/cm	0 2 2 0 2 N		
ALKALINITY mg/L	0 2 2 0 3 N		
(i) ELECTROMETRIC			
(ii) VISUAL TITRATION	0 7 0 0 1 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 0 0 4 N		
DISSOLVED OXYGEN mg/L	2 2 1 0 1 N	6 8 0	
B.O.D. mg/L	2 2 1 0 1 N		
C.O.D mg/L	3 3 3 3 3 N	1 9 9 0	
CHLORIDE mg/L	4 4 4 4 4 N		
(i) ARGENTOMETRIC			
(ii) MERCURIMETRIC			
SULPHATE mg/L			
(i) GRAVIMETRIC	0 7 5 5 5 N		
(ii) TURBIDIMETRIC	0 7 5 5 1 N		
SODIUM mg/L	0 5 1 0 5 N		0 5
CALCIUM AS CaCO ₃ mg/L			0 0 4
MAGNESIUM AS CaCO ₃ mg/L			
FECAL COLIFORM MPN/100 ML			
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 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 8 0	
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	1 9 9 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		0 5
PHOSPHATE mg/L			0 0 4
NITRITE mg/L			

Regional Officer

Chemist

B. P. Mishra

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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.

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

3	1	7	0
2	3	0	7
1	8		

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	2= Moderate	3= High
None	Fishy	H ₂ S	Other	Moderate	High	

U/S of Town or Industrial Area	Cattle Wading	Melon-farming	Fishing
Industrial Area	D/S of Town or Industrial Area	Pilgrimage Centre/ 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

ARBITRARY DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5 8	
pH	1	0 3 0 2 N 7 2 4	
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N	
ALKALINITY mg/L		N 8 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 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 6 0	
CHLORIDE mg/L		N 2 4 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 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 KjLDahl 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 7 0 0		
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N		
TOTAL COLIFORM MPN/100 ml	3 3 3 3 3 N 2 0 1 0		
TOTAL DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
FIXED DISSOLVED SOLIDS mg/L		0 4	
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 4	
NITRITE mg/L		0 0 5	

Registrar officer

Chief

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

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

1. STATION CODE

3 1 6 8

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

2 5 0 7 1 8

0 3 0 5

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	Fishy	H ₂ S	Other			

5. COLOUR & INTENSITY

None	Moderate	High
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Cattle Wading	Melon-farming	Fishing
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7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

8. 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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9. LOCATION DETAIL

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

CODE AQCFLAG VALUE

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

DETERMINAD	CODE	AQCFLAG	VALUE
TURBIDITY JTU/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) FLOT	0	2 2 0 3 N	
(iii)CHEMICAL			
TOTAL KILDAHL 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 6 8 0	
HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N	
TOTAL COLIFORM MPN/100 ml	3	3 3 3 3 N 2 3 1 0	
TOTAL DISSOLVED SOLIDS mg/L	4	4 4 4 4 N	
FIXED DISSOLVED SOLIDS mg/L			0 . 7
AMMONICAL NITROGEN mg/L	0	7 5 5 5 N	
(i) COLOURIMETRY	0	7 5 5 1 N	
(ii) DISTILLATION TITRATION	0	5 1 0 5 N	
BORON DISSOLVED mg/L			0 . 8
PHOSPHATE mg/L			0 . 0 8
NITRITE (NO ₂) mg/L			

B.P. Mishra
Lab. Asst. II

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

1. STATION CODE

3 1 6 9
2 3 0 7 1 8

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

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

3. WEATHER

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY
ODOUR

Clear Turbid Green Brown 1 - Light 2 - Moderate 3 - High
None Fishy Hrs Other None Moderate High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

Melon farming Eishing-
Pilgrim Centre/ Abstraction for
Bathing Ghat Water Supply

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading
D/S of Town of Industrial Area

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	1 0 1 N	
pH	0 2	2 0 1 N	
CONDUCTIVITY μ mhos/cm	0 2	2 0 2 N	
ALKALINITY mg/L	0 2	2 0 3 N	
(i) ELECTROMETRIC			
(ii) VISUAL TITRATION	0 7	0 0 1 N	
Nitrate NITROGEN (NO ₃) mg/L	0 7	0 0 4 N	
DISSOLVED OXYGEN mg/L	2 2	1 0 1 N	6 0
B.O.D. mg/L	2 2	1 0 1 N	
C.O.D mg/L	3 3	3 3 3 N	2 1 0 0
CHLORIDE mg/L	4 4	4 4 4 N	
(i) ARGENTOMETRIC			
(ii) MERCURIMETRIC	0 7	5 5 5 N	
SULPHATE mg/L	0 7	5 5 1 N	
(i) GRAVIMETRIC	0 5	1 0 5 N	0 6
(ii) TURBIDIMETRIC			
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			

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	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 1 0 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	0 6
PHOSPHATE mg/L			
NITRITE mg/L			

Registered Officer

Chemist

B.P. Mishra

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1	1	0	5
2	9	0	7
1	8	0	1
1	0	1	0

Cloudy	Clear	Windy	Raining

<50cm	50-100 cm	>100cm

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

None	Moderate	High
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7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION

U/S of Town of Industrial Area	Cattle Wading	Misc farming	Fishing
Industrial Area	D/S of Town of Industrial Area	Bathing Ghat	Abstraction for Water Supply

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE		
TEMPERATURE	0	2	0	0	1	N	2	5	7
pH	1	0	3	0	2	N	7	1	5
CONDUCTIVITY μ mhos/cm	0	2	0	4	1	N			
ALKALINITY mg/L							N	7	4
(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	2	
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	0	0
CHLORIDE mg/L							N	2	0
(i) ARGENTOMETRIC	1	7	2	0	1	N			
(ii) MERCURIMETRIC	1	7	2	0	1	N			
SULPHATE mg/L							N	1	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									
TURBIDITY JT/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	1	8	7
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	3

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

Analysed By

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1. STATION CODE

3 1 7 0

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

2 1 0 8 1 8

3. WEATHER

Cloudy 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 Light 2 = Moderate 3 = High
None Fishy H₂S Other Absence Moderate High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

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

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Other

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

ARBITRARY DETERMINAND	CODE	AQFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N	2 5 7	
pH	1 0 3 0 2 N	7 2 2	
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 4	
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	8 0	
CHLORIDE mg/L		N 2 3 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			

DETERMINAD	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 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 0 6 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 4	
NITRITE mg/L		0 0 4	

Analysed By

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

3 1 6 9
2 1 0 8 1 8
1 1 5 5

1. STATION CODE
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)
3. WEATHER
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

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

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

Clear	Turbid	Green	Brown	Light	2= Moderate	3= High
None	Fishy	H ₂ S	Other	Moderate	High	
U/S of Town-of Industrial Area		Cattle Wading D/S of Town of Industrial Area		Melon farming Pilgrim Centre Bathing Ghat		Fishing- Abstraction for Water Supply

5. COLOUR & INTENSITY
ODOUR
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

ARBITRARY DETERMINAND	CODE	AQCFLAG	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N	TURBIDITY JT/NTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N	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	(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	
B.O.D. mg/L	0	8 2 0 1 N	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	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 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 . 6
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	0 . 7
SODIUM mg/L	1	1 1 0 3 N	PHOSPHATE mg/L			0 . 0 4
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						

ARBITRARY DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N	2 5 . 5
pH	1	0 3 0 2 N	7 . 1 5
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N	
ALKALINITY mg/L			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 . 5
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N	6 . 6
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 6 . 0
CHLORIDE mg/L			2 1 . 9 9
(i) ARGENTOMETRIC	1	7 2 0 1 N	
(ii) MERCURIMETRIC	1	7 2 0 1 N	
SULPHATE mg/L			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	
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			

B.P. Mishra
Analysed By

Chemist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINDA T/GLOW DAT

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

3 1 6 8
2 8 0 8 1 8
0 3 1 0

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

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

None	Moderate	High
Cattle Wading	Melon-farming	Fishing

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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- 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

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

DETERMINAD	CODE	AQFLAG					VALUE
TURBIDITY JTUNTU	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) FLOT	0	2	2	0	3	N	
(iii) CHEMICAL	0	2	2	0	3	N	
TOTAL KILDAHL 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	7
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	7
TOTAL COLIFORM MPN/100 ml	3	3	3	3	3	N	2
TOTAL DISSOLVED SOLIDS mg/L	4	4	4	4	4	N	3
FIXED DISSOLVED SOLIDS mg/L	4	4	4	4	4	N	3
AMMONICAL NITROGEN mg/L	0	7	5	5	5	N	0
(i) COLOURIMETRY	0	7	5	5	1	N	8
(ii) DISTILLATION TITRATION	0	5	1	0	5	N	
BORON DISSOLVED mg/L	0	5	1	0	5	N	
PHOSPHATE mg/L							1
NITRITE (NO ₂) mg/L							0

Analysed By

Chemist

Regional officer

MIND A T / G L O W D A T

1. STATION CODE

3	1	6	5
2	8	0	8
0	1	1	0

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

Cloudy	Clear	Windy	Raining
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3. WEATHER

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

5. COLOUR & INTENSITY ODOUR

Clear	Turbid	Green	Brown	1	2	3	4	5
None	Fishy	H ₂ S	Other	1	2	3	4	5

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

8. HUMAN ACTIVITIES AROUND STATION

None	Moderate	High
Cattle Wading	Melon farming	Fishing
D/S of Town of Industrial Area	Pilgrim Centre/ Bathing Ghat	Abstraction for Water Supply

9. LOCATION DETAIL

ARBITRARY DETERMINAND	CODE	AOCFLAG					VALUE	DETERMINAD	CODE	AOCFLAG					VALUE
TEMPERATURE	0	2	0	0	1	2	5	TURBIDITY JT/UNTU	0	2	1	0	1	N	
pH	1	0	3	0	2	N	7	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 KJLDAHL NITROGEN mg/L					N		
Nitrate NITROGEN (NO ₃) mg/L	0	7	1	0	5	N	5	(i) TITRATION	0	7	0	0	1	N	
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	6	(ii) NESSELERIZATION	0	7	0	0	4	N	
B.O.D. mg/L	0	8	2	0	1	N	8	HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	
C.O.D. mg/L	0	8	3	0	1	N	2	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	0	(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 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														0	

Analysed By

Chemist

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

1 1 0 5
2 5 0 8 1 8

Cloudy Clear Windy Raining
Flood

<50cm: 50-100 cm. >100cm
Light 2= Moderate 3= High

None Turbid Green Brown
Fisby H₂S Other
None Moderate High

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

1. STATION CODE

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

3. WEATHER

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY
ODOUR

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

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

B.P. Mishra
Analysed By

Chemist

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	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	1 9 1 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		0 8
PHOSPHATE mg/L			0 0 5
NITRITE mg/L			

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 4 0 9 1 8

1 2 4 5

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 kohradia village Korba .

4. APPROX DEPTH OF MAIN STREAM

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

5. COLOUR & INTENSITY ODOUR

Clear Turbid 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 Melon farming Fishing
D/S of Town of Pilgrim-Centre Abstraction for
Industrial Area Bathing Ghat Water Supply

9. LOCATION DETAIL

U/S of Town of Industrial Area

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 2 0			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 8 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			
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 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 6 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 0 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 4
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 3
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 4 2 0			NITRITE mg/L			0 0 5
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							

Bfml

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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 9 1 8

3. WEATHER

Cloudy	Clear	Windy	Raining
<50 cm.	50-100 cm.	>100 cm	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	H ₂ S	Other	Moderate	High	

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading	Melon farming	Fishing
U/S of Town 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	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 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	4	(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 1	4	HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 7	0
C.O.D mg/L	0	8 3 0 1 N 1 8	0	TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N	
CHLORIDE mg/L			9 9	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			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 4	0	NITRITE mg/L			0 0 5
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							

B.P. Mishra

Regional Officer

3 1 6 8

2 6 0 9 1 8

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

0 3 2 0

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

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

STATION- Down Stream of Hosdev River
Near Urga Village Korba
TYPE- River Water

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

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

None	Moderate	High
Cattle Wading	Melon-farming	Fishing

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
HUMAN ACTIVITIES AROUND STATION

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

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 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 8 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 2 2		HARDNESS as CaCO ₃ mg/L	2	2 1 0 1 N 7 6 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 2 4 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		N 1 2 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 (NO ₂) mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 4 4 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

1. STATION CODE

3 1 6 5

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

2 6 0 9 1 8

1 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 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

9. LOCATION DETAIL

U/S of Town of Industrial Area
D/S of Town of Industrial Area
Melon farming
Pilgrim Centre
Bathing Ghat
Fishing
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	AQCLAG							VALUE
TEMPERATURE	0	2	0	0	1	N	2	5	7
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	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	4	
DISSOLVED OXYGEN mg/L	0	8	1	0	1	N	6	6	
B.O.D. mg/L	0	8	2	0	1	N	1	6	
C.O.D mg/L	0	8	3	0	1	N	2	0	0
CHLORIDE mg/L						N	2	1	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	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	AQCLAG				VALUE
TURBIDITY JTUNTU	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 KJDLAHL 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

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, 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

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

1. STATION CODE	1 1 0 5	2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1 1 5 5	3. WEATHER	Windy	4. APPROX DEPTH OF MAIN STREAM	50-100 cm.
5. COLOUR & INTENSITY	None	6. ODOUR	None	7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	None	8. HUMAN ACTIVITIES AROUND STATION	None

Cattle Wading	Fishing	Motel/Farming
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	6
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	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	1	6	
C.O.D mg/L	0	8	3	0	1	N	1	4	0
CHLORIDE mg/L						N	2	1	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	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									

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	4
TOTAL COLIFORM MPN/100 ml	2	2	1	0	1	N		
TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	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	5
NITRITE mg/L							0	0

Analysed By

Checked By

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

1. STATION CODE

3 1 6 9

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

2 3 1 0 1 8

3. WEATHER

Cloudy	Clear	Windy	Raining
< 50 cm.	30-100 cm.	> 100cm	Flood

4. APPROX DEPTH OF MAIN STREAM

1 2 2 0

5. COLOUR & INTENSITY ODOUR

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

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. 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	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	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1	N 2 5 . 9	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 0 1	N
ALKALINITY mg/L			N 7 4 . 0	(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			
Nitrate NITROGEN (NO ₃) 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
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 8 . 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 1 8 . 9 9	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			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	3 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 0 . 0	NITRITE mg/L			
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

Signature

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3 1 6 8

0 2 1 0

3 0 1 0 1 8

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

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

WEATHER

APPROX DEPTH OF MAIN STREAM

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fisly	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

MINDA T/GLOW DAT

STATION- Down Stream of Hosdev River
Near Uрга 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	CODE	AQCFLAG										VALUE
TEMPERATURE	0	2	0	0	1	2	5	7					TURBIDITY JTU/NTU	0	2	1	0	1	0	1	0	1	0		
pH	1	0	3	0	2	N	7	2	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	8	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							(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	7	2	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						N	2	3	9				TOTAL DISSOLVED SOLIDS mg/L	3	3	3	3	3	N	2	5	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	1	2	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	4	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 *B. Mishra*

Regional officer *[Signature]*

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

3 1 6 5
3 0 1 0 1 8

1 1 5 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

Cleady	Clear	Windy	Resting
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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- Moderate	3- High
None	Fisly	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 Point of Bathing Chat	Abstraction for Water Supply
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STATION- 100 Meter Down Stream after confluence of Dengurnallah 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
 Other _____

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 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		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		N	
Nitrate NITROGEN (NO ₃) 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	
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 8 . 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 0 . 9 9		TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3	N 2 4 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			
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 . 5	
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 0 . 0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1	N					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By B.P. Mishra 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

1. STATION CODE

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

2	6	1	0	1	8
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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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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

5. COLOUR & INTENSITY
ODOUR

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

None	Moderate	High
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7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT
Conservation

8. 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	Bathing Ghat	Water Supply	

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 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		N 8 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		(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 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 1 7 . 9 9		TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N 2 0 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			
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							

B.P. Mishra
Analysed By

Chaitist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES MINARS / GEMS

Annexure-VI

1. STATION CODE

3 1 7 2

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

2 3 1 0 1 8

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH

< 40 feet 50-100 feet > 100 feet 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
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 rogbahari 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	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 6	. 1	
pH	1 0 3 0 2 N 7	. 1 1	
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 1 4 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		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N		
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 3 7 . 9 8	
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L		N 2 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 5 6 . 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

Chemist

Regional Officer

DETERMINAND	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 9 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 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		1 . 2	
NITRITE mg/L		N 1 L	

1. STATION CODE

3 1 7 0
 MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

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

2 3 1 0 1 8
 0 3 3 5

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
 None Fisty H₂S Other None Moderate High

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

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

Cattle Wading
 D/S of Town of Industrial Area

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

8. HUMAN ACTIVITIES AROUND STATION

Melon farming Fishing
 Pilgrim-Centre Abstraction for
 Bathing Ghat Water Supply

9. LOCATION DETAIL

Other

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 . 9		
pH	1 0 3 0 2 N 7 . 1 8		
CONDUCTIVITY µmhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L	N 8 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		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N 7 . 0		
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 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 0 . 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			

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 0 6 . 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 . 4	
NITRITE mg/L			

Analysed By

Chemist

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

3 1 7 3

0 1 0 5

1. STATION CODE

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

3. WEATHER

Cloudy	Clear	Windy	Raining
<50-feet-	50-100 feet.	>100feet-	-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	None		

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
Industrial Area	D/S of Lower 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- Bore well / hand pump in parsabhata
Balco 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	AQFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 6 . 0		
pH	1 0 3 0 2 N 7 . 1 5		
CONDUCTIVITY μmhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 2 3 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		
DISSOLVED OXYGEN mg/L	0 8 1 0 1 N		
B.O.D. mg/L	0 8 2 0 1 N	0 1 4	
C.O.D mg/L	0 8 3 0 1 N	8 . 0	
CHLORIDE mg/L		N 3 3 . 9 8	
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L		N 1 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	7 0 . 0	
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N	7 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
C. Mishra

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 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 4 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 3 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		1 . 0	
NITRITE mg/L			

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 1 1 1 8

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 1 = Light 2 = Moderate 3 = High

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishy H-S 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

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

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 6		
pH	1 0 3 0 2 N 7 1 8		
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		
D/S SOLVED OXYGEN mg/L	0 8 1 0 1 N 7 4		
B.O.D. mg/L	0 8 2 0 1 N 0 2		
C.O.D mg/L	0 8 3 0 1 N 6 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 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 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

Chemist

Scientist

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 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 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 0 7 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 3	
NITRITE mg/L			

Scientist

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

- 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

3 1 6 9
1 5 1 1 1 8

Cloudy	Clear	Windy	Remaining
<50cm	50-100 cm	>100cm	Flood

Clear	Turbid	Green	Brown	1 = Light 2 = Moderate 3 = High
None	Fishy	H ₂ S	Other	
		None		Moderate
				High
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	

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

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5	
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 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	
DISSOLVED OXYGEN mg/L	0	8 1 0 1 N 7 2	
B.O.D. mg/L	0	8 2 0 1 N 0 8	
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 4 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			

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 2 2 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

Analysed By

Chemist

Scientist

Regional Officer

STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS Annexure-VJ

3 1 6 8
2 2 1 1 1 8
0 3 0 5

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

Cloudy Clear Windy Raining
< 50 cm. 50-100 cm. > 100 cm. Flood
None Turbid Green Brown + Fishy H₂S Other Light 2 = Moderate 3 = High

WEATHER

APPROX DEPTH OF MAIN STREAM

COLOUR & INTENSITY
ODOUR

VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

HUMAN ACTIVITIES AROUND STATION

LOCATION DETAIL.

COMPLETED BY - B.P. Mishra,
Lab. 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

STATION- Down Stream of Hosdev River
Near Urga Village Korba
TYPE- River Water

U/S of Town of Industrial Area D/S of Town of Industrial Area
Pilgrim-Centre/ Bathing Ghat Abstraction-for Water Supply
None Moderate High
Cattle Wading Melon Farming Fishing

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5 6		TURBIDITY JT/UNTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N 7 2 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 8 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		(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 2 0		HARDNESS as CaCO ₃ mg/L			
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 7 0 0	
CHLORIDE mg/L		N 2 5 9 9		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		N 1 2 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 6 0		NITRITE (NO ₂) mg/L			0 . . 9
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

Scientist

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

1. STATION CODE

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

3 1 6 5
2 6 1 1 1 8
1 2 2 5

Cloudy Clear Windy Raining

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

3. WEATHER

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY ODOUR

6. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

7. HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

8. ARBITRARY DETERMINAND

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5	5	TURBIDITY JT/UNTU	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				(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		(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	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 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 5 2	0
(i) ARGENTOMETRIC	1	7 2 0 1 N	9 9	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	0	(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 4	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

CHINAST

Scientist

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

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

Cloudy	Clear	Windy	Retaining
--------	-------	-------	-----------

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

Clear	Turbid	Green	Brown	Light	2	Moderate	3	High
None	Fishy	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

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5	5	
pH	1 0 3 0 2 N 7	1 5	
CONDUCTIVITY μmhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L		N 8 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		
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 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 4	2	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		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	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	5	1
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	3
NITRITE mg/L			

Analysed By

Chemist

Scientist

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS Annexure-VI

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

2 7 1 1 2 1 8

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 1 = Light 2 = Moderate 3 = High
 None Fishy H₂S 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 Bathing Chat Abstraction for Water Supply

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 1 N 2 5 4			TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 2 0			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 8 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			(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 4			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 7 6 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 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 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 4 0			NITRITE (NO ₂) mg/L			
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

Chemist

Scientist

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS

Annexure-VI

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

3 1 6 5
2 7 1 2 1 8

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

3. WEATHER

Cloudy Clear Windy Retaining

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 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 5 3			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 KILDAHL NITROGEN mg/L			
Nitrate NITROGEN (NO ₃) 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		
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 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 4 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 3 2 0			NITRITE mg/L			
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							

Analyse By

Chemist

Scientist

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
3 1 6 9

MINARS / GEMS

Annexure-VI

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

1 9 1 2 1 8

3. WEATHER

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

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

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	1 = Bright	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
9. LOCATION DETAIL

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

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	4
pH	1 0 3 0	2 N 7	1 5
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	
DISSOLVED OXYGEN mg/L	0 8 1 0	1 N 7	0
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 4	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 3 8	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 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 7	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 5
NITRITE mg/L			

Analysed By

Chemist

Scientist

Regional Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

Annexure-VI

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

19 1 2 1 8

3. WEATHER

Clear Windy Raining

MINDA T/GLOW DAT

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

4. APPROX DEPTH OF MAIN STREAM

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

5. COLOUR & INTENSITY ODOUR

Clear Turbidity 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

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

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

DETERMINAND	CODE	AQCFLAG	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N	TURBIDITY JTUNTU	0 2 1 0 1 N		
pH	1	0 3 0 2 N	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	(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		
B.O.D. mg/L	0	8 2 0 1 N	HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	7 8 0	
C.O.D mg/L	0	8 3 0 1 N	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 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			
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		0 4	
MAGNESIUM AS CaCO ₃ mg/L	2	1 0 3 N				
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N				
INSTANTANEOUS DISCHARGE M ³ /s						

B.P. Mishra
Analysed By

Chandrasekhar
Chemist

Scientist

Revision 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 2 0 1 1 8

3. WEATHER: Cloudy Clear Windy Raining 0 9 4 0

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
TEMPERATURE, °c	0 2 0 0	1 N 1 5		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 0	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 0 9 7		(i) TITRATION	0 7 0 0	0 1 N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 6 9		(ii) NESSELERIZATION	0 7 0 0	0 4	
BOD, mg/L	0 8 2 0	1 N 0 5		HARDNESS as CaCO ₃ mg/L	2 2 1 0	0 1 N 7 0	0
COD, mg/L	0 8 3 0	1 N 1 9 2		TOTAL COLIFORM, MPN/100ml	3 7 0 0	0 1 N 4 3	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 3 2	0
(1) ARGENTOMETRIC	1 7 2 0	1 N 2 2 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 4	
(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 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 1 8 4		NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 5 8 5		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					

SAMPLER

CHEMIST

REGIONAL OFFICER

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 2 0 1 1 8
- 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 : 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	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 1 5	
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 9 3	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 0 9 5	
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 3 9 0	
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 8 8	
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 6 0 9	
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	

ARBITRARY CODE AQC FLAG VALUE

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0 2 1 0	1 N 1 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) NESSELERIZATION	0 7 0 0	4	
HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N 7 2 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 5 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 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			

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 0 0 2 1 8 0 9 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 : 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

WHO CODE AQC FLAGE VALUE

DETERMINAND DETERMINAND ARBITRARY CODE AQC FLAGE VALUE

TEMPERATURE, °C	0 2 0 0 1 N 1 8			
Ph	1 0 3 0 2 N 7 4			
CONDUCTIVITY, μmhos/cm	0 2 0 4 1 N 1 8 9 0			
ALKALINITY, mg/L				
(1) ELECTROMETRIC	1 0 1 0 1 N			
(2) VISUAL TITRATION	1 0 1 0 2 N 8 9 0			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 8 7 7			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 8			
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 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 6 0			
SODIUM, mg/L	1 1 1 0 3 N			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 6 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			
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) NITROGEN	0 7 0 0 4 N			
HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 2 0			
TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 3 9			
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 3 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 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				
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 0 0 2 1 8 1 0 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

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	DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
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TEMPERATURE, °c	0 2 0 0 1 N 1 8			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			
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 9 1 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 2 0			TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 9 3 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 6 8 0		
CHLORIDE, mg/L	0 8 3 0 1 N 1 9 8 4			TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 4 3		
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 4 0			TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 4 8 0		
(2) MERCURIMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
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 7		
(2) TURBIDIMETRIC	1 6 3 0 2 N 4 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 7 6			PHOSPHATE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5 8 5			NITRITE, mg/L			
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			NITRATE NITROGEN (NO ₃ N), mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N			TOTAL SUSPENDED SOLIDS, mg/L			

S.K. Pradhan
REGIONAL OFFICER

S.K. Pradhan
CHEMIST

S.K. Pradhan
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 0 0 2 1 8 1 1 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

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
TEMPERATURE, °c	0	0 0 1 N 1 8		TURBIDITY, JTU/NTU	0 2 1 0 1 N 2 8	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 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 1 0 1	0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 1 9 9 9	9		(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		
BOD, mg/L	0 8 2 0 1 N 2	2		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 8 0	0	
CHLORIDE, mg/L	0 8 3 0 1 N 3 5	7 1		TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 1 2 0		
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 6	0		TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 5 3	0	
(2) MERCURIMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
SULPHATE, mg/L				AMMONIA NITROGEN, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N			(i) COLOURIMETRY	0 7 5 5 5 N 1 4		
(2) TURBIDIMETRIC	1 6 3 0 2 N 5 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 2 0	4		PHOSPHATE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 7	0 7		NITRITE, mg/L			
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			NITRATE NITROGEN (NO ₃ N), mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N			TOTAL SUSPENDED SOLIDS, mg/L			

R. O. C. E. C. B. Raigarh
 REGIONAL OFFICER

9
 CHEMIST

S. K. Pradhan
 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 0 0 3 1 8 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

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

DETERMINAND DETERMINAND ARBITRARY 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 2 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 0 8 9 7			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 7			
BOD, mg/L	0 8 2 0 1 N 0 6			
COD, mg/L	0 8 3 0 1 N 2 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 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 6 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			
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N			

TURBIDITY, JTU/NTU	0 2 1 0 1 N 1 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 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 6 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 5 2 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				

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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): 2 0 0 3 1 8

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

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0	0 0 1 N 2 1	
pH	1	0 3 0 2 N 7 6	
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 1 0 0	0
NITROGEN(NO ₃ + NO ₂), mg/L	0	7 1 0 5 N 0 9 7 8	
DISSOLVED OXYGEN, mg/L	0	8 1 0 1 N 6 6	
BOD, mg/L	0	8 2 0 1 N 2 0	
COD, mg/L	0	8 3 0 1 N 3 6 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 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 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	WHO CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0	2 1 0 1 N 2 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) NITROSELENERIZATION	2	2 1 0 1 N 7 8 0	
HARDNESS as CaCO ₃ mg/L	3	7 0 0 1 N 1 5 0	
TOTAL COLIFORM, MPN/100ml	3	7 0 0 1 N 1 5 0	
TOTAL DISSOLVED SOLIDS, mg/L	4	4 4 4 4 N	
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 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 0 0 1 8
NITRATE NITROGEN (NO ₃ N), mg/L			0 0 9 6
TOTAL SUSPENDED SOLIDS, mg/L			5 8 0 0

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REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1 1 0 1

1 0 0 4 1 8 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

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

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 2			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 1		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 8		0	(i) TITRATION	0 7 0 0 1 N		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 8 5 6		6	(ii) NESSELERIZATION	0 7 0 0 4		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 9		9	HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 5 0		0
BOD, mg/L	0 8 2 0 1 N 0 5		5	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 4 3		
COD, mg/L	0 8 3 0 1 N 1 5 9 3		3	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 3 0		0
CHLORIDE, mg/L				FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 3 0		0	AMMONIA NITROGEN, mg/L			
(2) MERCURIMETRIC	1 7 2 0 1 N			(i) COLOURIMETRY	0 7 5 5 5 N 1 0 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 5 0 0		0	PHOSPHATE, mg/L			
SODIUM, mg/L	1 1 1 0 3 N			NITRITE, mg/L			0 8
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 6 8		8	NITRATE NITROGEN (NO ₃ N), mg/L			0 0 1 6
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5 6 0		0	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						

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REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

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

1. STATION CODE: 1 8 4 9

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

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

DETERMINAND	WHO CODE	AQC FLAG	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TEMPERATURE, °C	0 2 0 0	1 N 2 2		TURBIDITY, JTU/NTU	0 2 1 0	1 N 1 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 3	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 2	0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 0 9 1 7 5		(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	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 6 8	0
COD, mg/L	0 8 3 0	1 N 1 9 2		TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N 7 5	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 5 3	0
(1) ARGENTOMETRIC	1 7 2 0	1 N 2 6 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 4 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 2 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 7 2		NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 6 0 9		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					

SAMPLER

CHEMIST

REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

STATION : Kelo River, Raigarh
 TYPE : Down Stream of Raigarh City
 COMPLETED BY : S. K. Pradhian (Chemist)
 VERIFIED BY : S. K. Pradhan (Chemist)
 AGENCY : R. O. C. E. C. B. Raigarh

1. STATION CODE: 1 8 5 0

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

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 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

WHO CODE AQC FLAGE VALUE

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0	0 0 1 N 2 2	
pH	1 0	3 0 2 N 7 6	
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 1 0 2	0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7	1 0 5 N 0 9 7 8	
DISSOLVED OXYGEN, mg/L	0 8	1 0 1 N 6 6	
BOD, mg/L	0 8	2 0 1 N 2 1	
COD, mg/L	0 8	3 0 1 N 3 5	8 5
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 5 6	0
SODIUM, mg/L	1 1	1 0 3 N	
CALCIUM as CaCO ₃ , mg/L	2 0	1 0 1 N 2 0	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	

DETERMINDAND ARBITRARY CODE AQC FLAGE VALUE

DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0 2	1 0 1 N 2 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 0	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 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 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			1 0
NITRATE NITROGEN (NO ₃ N), mg/L			0 0 1 8
TOTAL SUSPENDED SOLIDS, mg/L			0 9 6
			6 0 0

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 2 0 5 1 8 1 0 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

WHO CODE AQC FLAG VALUE

DETERMINDAND	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 1 9 3 . 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 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 . 5		
COD, mg/L	0 8 3 0 1 N 2 0 . 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 4 . 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 5 . 1 2		
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 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			
(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 5 . 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 5 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 . 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			
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 1 0 1

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

3. WEATHER: Cloudy Clear Windy Raining Flood

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

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 : 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: Pilgrim Center / Bathing Ghat: Abstraction For Water Supply:

WHO CODE AQC FLAG VALUE DETERMINAND ARBITRARY CODE AQC FLAG VALUE

TEMPERATURE, °C	0 2 0 0 1 N 2 7		TURBIDITY, JTU/NTU	0 2 1 0 1 N 1 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 0	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 0	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 1 5		(i) TITRATION	0 7 0 0 4	
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 9		(ii) NESSELERIZATION	2 2 1 0 1 N 6 0	0
BOD, mg/L	0 8 2 0 1 N 0 4		HARDNESS as CaCO ₃ mg/L	3 7 0 0 1 N 2 1	
COD, mg/L	0 8 3 0 1 N 1 5	6 8	TOTAL COLIFORM, MPN/100ml	3 3 3 3 3 N 1 2 8	0
CHLORIDE, mg/L			TOTAL DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N	
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 6	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 0 9 2	
(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 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 1 6	0	NITRITE, mg/L		0 0 1 5
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 4	8 7	NITRATE NITROGEN (NO ₃ N), mg/L		0 0 8
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		TOTAL SUSPENDED SOLIDS, mg/L		3 0 0
INSTANTANEOUS DISCHARGE, m ³ /s	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 9

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

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 FLAGE VALUE

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 7	
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 0 1 0	1 N	
(1) ELECTROMETRIC			
(2) VISUAL TITRATION	1 0 1 0	2 N 8 6	0
NITROGEN(NO ₂ + NO ₃), mg/L	0 7 1 0	5 N 0 8 5 5	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 6 8	
BOD, mg/L	0 8 2 0	1 N 0 6	
COD, mg/L	0 8 3 0	1 N 1 9 6	
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 5 6	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 6	4
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 5	1 2
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 1 8	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	1 N 6 2	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0	0 1 N 3 9	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 5 3	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			

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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 9 0 6 1 8

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 DETERMINAND

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE	DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0	0	27	TURBIDITY, JTU/NTU	0	2	1
pH	1	0	7.6	VELOCITY OF FLOW, m/sec	0	2	0
CONDUCTIVITY, μmhos/cm	0	2	95	(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	2	TOTAL KJELDAHL NITROGEN, mg/l	0	7	0
NITROGEN(NO ₂ + NO ₃), mg/L	0	7	0	(i) TITRATION	0	7	0
DISSOLVED OXYGEN, mg/L	0	8	7	(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	6	3	AMMONIA NITROGEN, mg/L	0	7	5
SULPHATE, mg/L	1	6	3	(i) COLOURIMETRY	0	7	5
(1) TURBIDIMETRIC	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	1	0	0
CALCIUM as CaCO ₃ , mg/L	1	2	1	NITRITE, mg/L	0	0	0
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	NITRATE NITROGEN (NO ₃ N), mg/L	0	0	9
FECAL COLIFORM MPN/100mg/L	3	6	0	TOTAL SUSPENDED SOLIDS, mg/L	5	8	0
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1				

R. O. C. B. Raigarh
REGIONAL OFFICER

S. K. Pradhan
CHEMIST

S. K. Pradhan
SAMPLER

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) 3 0 0 7 1 8

0 9 3 0

3. WEATHER

√Cloudy Clear Windy Raining

STATION : Mahanadi River, Raigarh

4. APPROX DEPTH OF MAIN STREAM

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

TYPE : Interstate boundary near Surajgarh

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
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WHO CODE

DETERMINAND

AQC FLAGE

ARBITRARY CODE

AQC FLAGE

VALUE

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 1		
Ph	1 0 3 0 2 N 7 4		
CONDUCTIVITY, μmhos/cm	0 2 0 4 1 N 2 2 1 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 1 2 4		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 2		
BOD, mg/L	0 8 2 0 1 N 2 9		
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 8 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 4		
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		

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0 2 1 0 1 N 7 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) NITROGENIZATION	0 7 0 0 4 N		
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 4 6 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 7 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 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			

S.K.P.
SAMPLER

S.K.P.
CHEMIST

S.K.P.
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 8 4 9
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 0 0 7 1 8
- 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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DETERMINDANT	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0 2 0 0 1 N 2 1		
pH	1 0 3 0 2 N 7 4		
CONDUCTIVITY, μmhos/cm	0 2 0 4 1 N 2 2 0		0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 0 8		0
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 1 1 4		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 2		
BOD, mg/L	0 8 2 0 1 N 2 8		
COD, mg/L	0 8 3 0 1 N 3 6		
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0 1 N 3 6		
(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 6		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 6		0 9
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		

DETERMINDANT	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0 2 1 0 1 N 7 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) NESSELERIZATION	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 6 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 7 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 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			1 2
NITRATE NITROGEN (NO ₃ -N), mg/L			0 2 4
TOTAL SUSPENDED SOLIDS, mg/L			1 1 2
			1 4 0 0

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)

3 0 0 7 1 8

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

DETERMINDAND	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0	0	1
pH	1	0	7
CONDUCTIVITY, μmhos/cm	0	2	5
ALKALINITY, mg/L	0	2	1
(1) ELECTROMETRIC	1	0	1
(2) VISUAL TITRATION	1	0	1
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	1
DISSOLVED OXYGEN, mg/L	0	8	1
BOD, mg/L	0	8	1
COD, mg/L	0	8	1
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	2	0	1
CALCIUM as CaCO ₃ , mg/L	1	2	1
MAGNESIUM as CaCO ₃ , mg/L	1	2	1
FECAL COLIFORM MPN/100mg/L	3	6	0
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1

ARBITRARY CODE AQC FLAG VALUE

DETERMINDAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0	2	1
VELOCITY OF FLOW, m/sec	0	2	1
(I) CURRENT METER	0	2	0
(II) FLOAT	0	2	0
(III) CHEMICAL	0	2	0
TOTAL KJELDAHL NITROGEN, mg/L	0	7	0
(I) TITRATION	0	7	0
(II) NESSELERIZATION	0	7	0
HARDNESS as CaCO ₃ 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	0	7	5
(I) COLOURIMETRY	0	7	5
(II) DISTILLATION TITRATION	0	7	5
BORON DISSOLVED, mg/L	0	5	1
PHOSPHATE, mg/L	0	5	1
NITRITE, mg/L			2
NITRATE NITROGEN (NO ₃), mg/L			0
TOTAL SUSPENDED SOLIDS, mg/L			1

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 **REGIONAL OFFICER**

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 1 1 0 1

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 0 0 8 1 8 0 9 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 : 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	2	1
CONDUCTIVITY, umhos/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	1	0	1	(i) TITRATION	0	7	0
DISSOLVED OXYGEN, mg/L	0	7	1	(ii) MESSELERIZATION	0	7	0
BOD, mg/L	0	8	1	HARDNESS as CaCO ₃ mg/L	2	2	1
COD, mg/L	0	8	2	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	7	0
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	6	3	BORON DISSOLVED, mg/L	0	5	1
SODIUM, mg/L	1	1	0	PHOSPHATE, mg/L	1	1	1
CALCIUM as CaCO ₃ , mg/L	2	0	1	NITRITE, mg/L	0	0	2
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	NITRATE NITROGEN (NO ₃ -N), mg/L	1	1	0
FECAL COLIFORM MPN/100mg/L	3	6	0	TOTAL SUSPENDED SOLIDS, mg/L	1	2	0
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1				

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√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 3 4 9

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 0 0 8 1 8 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 : 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 3			TURBIDITY, JTU/NTU	0 2 1 0 1 N 5 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 2 1 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 ₂ + NO ₃), mg/L	0 7 1 0 5 N 1 0 6 3		0	(i) TITRATION	0 7 0 0 1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 7 1		1	(ii) NESSELERIZATION	0 7 0 0 4		
BOD, mg/L	0 8 2 0 1 N 2 6		6	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 2		0	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 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 6		
(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 7 4		0	BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			1 1 1
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 2 0		0	NITRITE, mg/L			0 2 3
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5 8 5		5	NITRATE NITROGEN (NO ₃ -N), mg/L			1 0 4
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			TOTAL SUSPENDED SOLIDS, mg/L			1 2 2 0
INSTANTANEOUS DISCHARGE, m ³ /s	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 0 1
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 1 9 0 9 1 8
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

DETERMINDAND	WHO CODE	AQC FLAG	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 2 0 5		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 1 0 0 2		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 9		
BOD, mg/L	0 8 2 0 1 N 2 1		
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 4		0
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N 1 8		4
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5		6 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 FLAG VALUE

DETERMINDAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0 2 1 0 1 N 5 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 CaCO ₃ , mg/L	2 7 1 0 1 N 6 9		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 5 3		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			
NITRITE, mg/L			1 0
NITRATE NITROGEN (NO ₃ N), mg/L			0 0 2 2
TOTAL SUSPENDED SOLIDS, mg/L			1 9 8
			9 2 0

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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 9 1 8

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	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 5	
pH	1 0 3 0	2 N 7 4	
CONDUCTIVITY, umhos/cm	0 2 0 4	1 N 2 0 9	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 2 2
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 6	8
BOD, mg/L	0 8 2 0	1 N 2	3
COD, mg/L	0 8 3 0	1 N 2	8
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 6 8	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 8	8
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 5	6 0
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

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0 2 1 0	1 N 5 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) NITROGEN	0 7 0 0	4	
HARDNESS as CaCO ₃ , mg/L	2 7 1 0	1 N 7 0	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 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 2 6	
(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			

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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): 1 9 0 9 1 8
- 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 : 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

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0	0	25	TURBIDITY, JTU/NTU	0	1	0
pH	1	0	7.5	VELOCITY OF FLOW, m/sec	0	2	0
CONDUCTIVITY, µmhos/cm	0	2	1	(i) CURRENT METER	0	2	0
ALKALINITY, mg/L	0	4	1	(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	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	FIXED DISSOLVED SOLIDS, mg/L	3	3	3
(2) MERCURIMETRIC	1	7	2	AMMONIA NITROGEN, mg/L	4	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			
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				

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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 7 1 0 1 8

0 9 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
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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
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TEMPERATURE, °c	0 2 0 0 1 N 2 4			TURBIDITY, JTU/NTU	0 2 1 0 1 N 3 2	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 0 3	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 2	0		TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 9 6			(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 1 8			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 5	0	
CHLORIDE, mg/L	0 8 3 0 1 N 2 3	7 6		TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 2 1 0		
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 3	0		TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 4 9	0	
(2) MERCURIMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
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		
(2) TURBIDIMETRIC	1 6 3 0 2 N 6 2	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 7	6		PHOSPHATE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5	1 2		NITRITE, mg/L			
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			NITRATE NITROGEN (NO ₃ N), mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N			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): 1 7 1 0 1 8

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 checked="" type="checkbox"/>	Pilgrim Center / Bathing Ghat	<input type="checkbox"/>	Abstraction For Water Supply	<input type="checkbox"/>
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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 4			TURBIDITY, JTU/NTU	0 2 1 0 1 N 3 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 0 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 9 6 0			TOTAL KJELDAHL NITROGEN, mg/L		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 1 0 0 1			(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 2 7 2			HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 8 0	
CHLORIDE, mg/L	0 8 3 0 1 N 2 7 2			TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 2 4 0	
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 5 0			TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 5 3 0	
(2) MERCURIMETRIC	1 7 2 0 1 N			FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N	
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 4	
(2) TURBIDIMETRIC	1 6 3 0 2 N 6 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 8 0			PHOSPHATE, mg/L		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5 6 0			NITRITE, mg/L		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			NITRATE NITROGEN (NO ₃ N), mg/L		
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N			TOTAL SUSPENDED SOLIDS, mg/L		

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 8 5 0

1. STATION CODE

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

1 7 1 0 1 8

1 1 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 : 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	WHO CODE	AQC FLAG	VALUE
TEMPERATURE, °c	0	0 0 1 N 2 4	
pH	1	0 3 0 2 N 7 . 6	
CONDUCTIVITY, µmhos/cm	0	2 0 4 1 N 2 0 7 . 0	
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1	0 1 0 1 N	
(2) VISUAL TITRATION	1	0 1 0 2 N 1 0 0 . 0	
NITROGEN(NO ₃ + NO ₂), mg/L	0	7 1 0 5 N 1 . 0 2 1	
DISSOLVED OXYGEN, mg/L	0	8 1 0 1 N 6 . 7	
BOD, mg/L	0	8 2 0 1 N 2 . 6	
COD, mg/L	0	8 3 0 1 N 3 1 . 6 8	
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 6 8 . 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 5 . 8 5	
FECAL COLIFORM MPN/100mg/L	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9	7 1 6 7 N	

DETERMINAND DETERMINAND WHO CODE AQC FLAG VALUE

DETERMINAND	WHO CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0	2 1 0 1 N 4 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 CaCO ₃ mg/L	2	2 1 0 1 N 7 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 5 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 . 2 6	
(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

Rafiqul Hasan
CHEMIST

Rafiqul Hasan
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 6 1 1 1 8

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

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: 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

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

WHO CODE: 0 2 0 0 1 N 2 3

DETERMINAND: TURBIDITY, JTU/NTU

WHO CODE: 1 0 3 0 2 N 7 5

DETERMINAND: VELOCITY OF FLOW, m/sec

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

DETERMINAND: (i) CURRENT METER

WHO CODE: 1 0 1 0 1 N

DETERMINAND: (ii) FLOAT

WHO CODE: 1 0 1 0 2 N 9 2 0

DETERMINAND: (iii) CHEMICAL

WHO CODE: 0 7 1 0 5 N 0 9 4

DETERMINAND: TOTAL KJELDAHL NITROGEN, mg/L

WHO CODE: 0 8 1 0 1 N 6 9

DETERMINAND: (i) TITRATION

WHO CODE: 0 8 2 0 1 N 1 6

DETERMINAND: (ii) NITROGEN

WHO CODE: 0 8 3 0 1 N 2 4 0

DETERMINAND: (iii) NITROGEN

WHO CODE: 1 7 2 0 1 N 2 3 0

DETERMINAND: HARDNESS as CaCO₃ mg/L

WHO CODE: 1 7 2 0 1 N

DETERMINAND: TOTAL DISSOLVED SOLIDS, mg/L

WHO CODE: 1 6 3 0 1 N

DETERMINAND: FIXED DISSOLVED SOLIDS, mg/L

WHO CODE: 1 6 3 0 2 N 6 0 0

DETERMINAND: AMMONIA NITROGEN, mg/L

WHO CODE: 1 1 1 0 3 N

DETERMINAND: (i) COLOURIMETRY

WHO CODE: 2 0 1 0 1 N 1 7 6

DETERMINAND: (ii) DISTILLATION TITRATION

WHO CODE: 1 2 1 0 3 N 5 1 2

DETERMINAND: BORON DISSOLVED, mg/L

WHO CODE: 3 6 0 1 1 N

DETERMINAND: PHOSPHATE, mg/L

WHO CODE: 9 7 1 6 7 N

DETERMINAND: NITRITE, mg/L

WHO CODE: 9 7 1 6 7 N

DETERMINAND: NITRATE NITROGEN (NO₃-N), mg/L

WHO CODE: 9 7 1 6 7 N

DETERMINAND: TOTAL SUSPENDED SOLIDS, mg/L

DETERMINAND	WHO CODE	AQC FLAGE	VALUE	DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0 2 0 0 1 N 2 3			TURBIDITY, JTU/NTU	0 2 1 0 1 N 2 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 2 0 4 0		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 2 0		0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 9 4		9 4	(i) TITRATION	0 7 0 0 1 N		0
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 9		9	(ii) NITROGEN	0 7 0 0 4		
BOD, mg/L	0 8 2 0 1 N 1 6		6	HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N 6 5 0		0
COD, mg/L	0 8 3 0 1 N 2 4 0		0	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N 2 1 0		0
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 5 0 0		0
(1) ARGENTOMETRIC	1 7 2 0 1 N 2 3 0		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 9		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 0 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 1 7 6		6	NITRITE, mg/L			0 0 2
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N 5 1 2		1 2	NITRATE NITROGEN (NO ₃ -N), mg/L			0 9 2
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N			TOTAL SUSPENDED SOLIDS, mg/L			5 3 0 0
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N						

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 6 1 1 8 1 1 5 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

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

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0	0	23
pH	1	0	7.6
CONDUCTIVITY, µmhos/cm	0	2	0.5
ALKALINITY, mg/L	0	2	0.5
(1) ELECTROMETRIC	1	0	1
(2) VISUAL TITRATION	1	0	2
NITROGEN(NO ₃ + NO ₂), mg/L	0	7	0.98
DISSOLVED OXYGEN, mg/L	0	8	1.67
BOD, mg/L	0	8	2.4
COD, mg/L	0	8	3.0
CHLORIDE, mg/L	1	7	2.5
(1) ARGENTOMETRIC	1	7	2.0
(2) MERCURIMETRIC	1	6	3.0
SULPHATE, mg/L	1	6	3.0
(1) GRAVIMETRIC	1	6	3.0
(2) TURBIDIMETRIC	1	6	3.0
SODIUM, mg/L	1	1	0.3
CALCIUM as CaCO ₃ , mg/L	2	0	1.0
MAGNESIUM as CaCO ₃ , mg/L	1	2	1.0
FECAL COLIFORM MPN/100mg/L	3	6	0.1
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1.67

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0	2	1
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0	2	0
(ii) FLOAT	0	2	0
(iii) CHEMICAL	0	2	0
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0	7	0
(ii) NESSELERIZATION	0	7	0
HARDNESS as CaCO ₃ 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			1
NITRATE NITROGEN (NO ₃ -N), mg/L			0
TOTAL SUSPENDED SOLIDS, mg/L			0

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) 1 8 1 2 1 8 0 8 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

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0 2	0 0 1 N 2 2	
CONDUCTIVITY, μmhos/cm	1 0 3 0 2 N 7 4		
ALKALINITY, mg/L	0 2 0 4 1 N 1 9 8 0		
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 8 5 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 9		
BOD, mg/L	0 8 2 0 1 N 1 1		
COD, mg/L	0 8 3 0 1 N 1 6 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 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 6 0		
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		

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0 2 1 0 1 N 1 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 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 0 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 4 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 1 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.
SAMPLER

S.K.
CHEMIST

R.K. Pradhan
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 1 2 1 8 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 : 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
TEMPERATURE, °C	0	0 0 1 N 2 2	
CONDUCTIVITY, μmhos/cm	1 0 3 0 2 N 7 6		
ALKALINITY, mg/L	0 2 0 4 1 N 2 0 4		
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 9 6 0		
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N 0 9 8		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 6 7		
BOD, mg/L	0 8 2 0 1 N 2 3		
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 6 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 0 9		
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 4 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	0 7 0 0 1 N		
(i) TITRATION	0 7 0 0 4		
(ii) NITROGENIZATION	2 2 1 0 1 N 7 5 0		
HARDNESS as CaCO ₃ mg/L	3 7 0 0 1 N 2 4 0		
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 5 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 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			
NITRATE NITROGEN (NO ₃ -N), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			

S.K. SAMPLER

CHEMIST

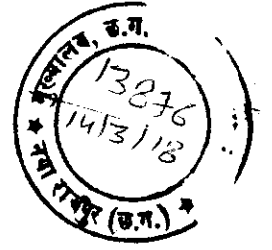
REGIONAL OFFICER



क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल

कबीर नगर व्यवसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)



क्रमांक 6994/क्षेका/वैज्ञा/छ.प.सं.मं/2017 रायपुर दिनांक 13/03/2018

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 2018.

महोदय,

उपरोक्त विषयांतर्गत माह जनवरी 2018 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।

Add Sec/CE(I/C)ACE(R/U)
SE(B/M/S) / SSO/EE/CC
PRO / SO (A/C) / Stf. O

MEMBER SECRETARY

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE	1	0	9	9	1	1	8	1	6	3	0	MINDAT / GLOWDAT
1. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	4	0	1	1	1	8	1	6	3	0	STATION : RIVER MAHANADI AT RAJIM
2. WEATHER	Cloudy	✓Clear	✓Clear	Windy	Windy	Raining						NEAR ROAD BRIDGE
3. APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	> 100 cm			Flood						TYPE : RIVER
4. COLOUR & INTENSITY	✓Clear	Turbid	Green	Brown								COMPLETED BY : K.C. Sahu (Chemist), S.K. Khanna (Lab. Asst. Grade-II)
5. ODOUR	None	fishy	H ₂ S	Other								VERIFIED BY : Scientist
6. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	None	None	Moderate	High								AGENCY : REGIONAL OFFICE CHHATTISGARH
7. HUMAN ACTIVITIES AROUND STATION	Cattle	None	Moderate	High								ENVIRONMENT CONSERVATION
8. LOCATION DETAIL	✓U/s of town or Industrial area	✓Melon Farming	D/s of Town or Industrial area	Other								BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	5	0
pH	7	6	6
CONDUCTIVITY µS/CM	2	5	4
ALKALINITY MGL (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	1	6
NITROGEN (NO ₂) MGL			0
DISSOLVED OXYGEN MGL	7		4
BOD MGL			
COD MGL	1	6	0
CHLORIDE MGL			
(I) ARGENTOMETRIC	2	8	0
(II) MERCURIMETRIC			
SULPHATE MGL			
(I) GRAVIMETRIC			
(II) TURBIDITY MATRIC			
SODIUM MGL			
CALCIUM as CaCO ₃ MGL	3	5	2
MAGNESIUM as CaCO ₃ MGL	7		8
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

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			

MICRO POLLUTANT (SEDIMENT) VALUE

ARSENIC, µg/L			
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			

PHYSICO-CHEMICAL PARAMETERS VALUE

FIXED DISSOLVED SOLID MGL	9	4	0
AMMONIA NITROGEN MGL			
(I) COLOURIMETRIC MGL			
(II) DISTILLATION TITRATION MGL			
BORAN DISSOLVED MGL			
PHOSPHATE MGL			
NITRATE (NO ₃) MGL			
PHENOL/PTHALEIN ALKALINITY MGL			
TOTAL SUSPENDED SOLID MGL	4	8	0
POTASSIUM MGL			
FLUORIDE MGL			

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	5	8	1	2	3	0	MINDAT / GLOWDAT	
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	1	0	1	1	1	1	2	3	0	STATION : RIVER KHARON AT BHATAGAON
3. WEATHER	Cloudy	√Clear	Windy	√Clear	Windy	√Clear	Flood				TYPE : RIVER
4. APROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	> 100 cm	√Clear	Green	Brown	Other				COMPLETED BY : S.K.Khanna (Lab. Asst. Grade-II)
5. COLOUR & INTENSITY	√None	Fishy	H ₂ S	Other							VERIFIED BY : Scientist
6. ODOUR	√None	moderate	High								AGENCY : REGIONAL OFFICE CHHATTISGARH
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Carlie	melon Forming	√Other								ENVIRONMENT CONSERVATION
8. HUMAN ACTIVITIES AROUND STATION	√U/s of town or Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Chat								BOARD RAIPUR (C G)
9. LOCATION DETAIL											

PHYSICO-CHEMICAL PARAMETERS VALUE VALUE

TEMPERATURE °C	24	0
pH	7	74
CONDUCTIVITY μS/CM	244	0
ALKALINITY MG/L (TOTAL)		
(I) ELECTROMETRIC		
(II) VISUAL TITRATION	1	4
NITROGEN (NO ₂) MG/L		
DISSOLVED OXYGEN MG/L	7	4
BOD MG/L		
COD MG/L	2	0
CHLORIDE MG/L		
(I) ARGENTOMETRIC	2	8
(II) MERCURIMATRIC		
SULPHATE MG/L		
(I) GRAVIMATRIC		
(II) TURBIDITY MATRIC		
SODIUM MG/L		
CALCIUM as CaCO ₃ MG/L	2	9
MAGNESIUM as CaCO ₃ MG/L	8	2
FECAL COLIFORM MPN/100 ML		
INSTANTANEOUS DISCHARGE M ³ /S		
PHYSICO-CHEMICAL PARAMETERS	VALUE	VALUE
TURBIDITY JT/NTU	3	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
TOTAL COILFORM MPN/100 ML	2	1
TOTAL DISSOLVED SOLID MG/L	1	4
ARSENIC μg/L		

MICRO POLLUTANT (WATER) VALUE 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	VALUE
FIXED DISSOLVED SOLID MG/L	8	2
AMMONIA NITROGEN MG/L		
(I) COLURIMETRIC MG/L		
(II) DISTILLATION TITRATION MG/L		
BORAN DISSOLVED MG/L		
PHOSPHATE MG/L		
NITRATE MG/L		
PHENOLPHTHALEIN ALKALINITY MG/L		
TOTAL SUSPENDED SOLID MG/L	3	6
POTASSIUM MG/L		
FLUORIDE MG/L		
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) 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	
SAROBITY		
DIVERSITY INDAX		
P/R RATIO		

Handwritten signature and initials.

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1.	STATION CODE	1	8	5	1	1	8	1	1	2	0	MINDAT / GLOWDAT	STATION	RIVER MAHANADI AT SIHAWA
2.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	4	0	1	1	8	1	1	2	0	STATION	ORIGIN POINT OF RIVER MAHANADI	
3.	WEATHER	Cloudy	√Clear	√Clear	Windy	√>100 cm	Raining					TYPE	RIVER	
4.	APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	Turbid	Green	Brown						COMPLETED BY	K.C. Sahu (Chemist), S.K. Khanna (Lab Assit. Grade-II)	
5.	COLOUR & INTENSITY	√Clear										VERIFIED BY	Scientist	
6.	ODOUR	√None	fishy	H ₂ S	Other							AGENCY	REGIONAL OFFICE CHHATTISGARH ENVIRONMENT CONSERVATION	
7.	VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle	√None	melon Forming	Moderate	High						AGENCY	ENVIRONMENT CONSERVATION	
8.	HUMAN ACTIVITIES AROUND STATION	√U/s of town or Industrial area	D/s of Town or Industrial area	√Other	Pilgrim Centre / Bathing Ghat							AGENCY	ENVIRONMENT CONSERVATION	
9.	LOCATION DETAIL											AGENCY	BOARD RAIPUR (C G)	

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	4	0
pH	7	7	6
CONDUCTIVITY μS/CM	2	5	8
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	1	2
NITROGEN (NO ₃) MG/L			0
DISSOLVED OXYGEN MG/L	6		6
BOD MG/L			
COD MG/L	1	1	0
CHLORIDE MG/L			
(I) ARGENTOMETRIC	2	8	0
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMATRIC			
(II) TURBIDITY MATRIC			
SODIUM MG/L			
CALCIUM as CaCO ₃ MG/L	3	2	8
MAGNESIUM as CaCO ₃ MG/L	6		8
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

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			
DIEIDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L			
PARATHION, 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			
DIEIDRIN, 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) COLOURMETRIC 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	4	4	0
POTASSIUM MG/L			
FLUORIDE MG/L			
ARSENIC, μg/L			

BIO MONITORING VALUE

SAPROBITY			
DIVERSITY INDAX			
P/R RATIO			

Handwritten signature and initials.

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1.	STATION CODE	1	6	2	0	1	1	8	1	1	3	0	MINDAT / GLOWDAT
2.	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	7	0	1	1	1	8	1	1	3	0	STATION : BORE WELL WATER
3.	WEATHER	Cloudy	√Clear	√Clear	Windy	Raining							New H.I.G. 11, Taibandh, Raipur
4.	APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	√ > 100 cm	Flood								BORE WELL WATER
5.	COLOUR & 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	Other	Pilgrim Centre / Bathing Ghat							BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	4	0
pH	7	3	8
CONDUCTIVITY μS/CM	4	5	6
ALKALINITY MGL (TOTAL)			
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	4	4
NITROGEN (NO ₂) MGL			0
DISSOLVED OXYGEN MGL	0	6	
BOD MGL			
COD MGL	9	0	
CHLORIDE MGL			
(I) ARGENTOMETRIC	3	2	0
(II) MERCURIMATRIC			
SULPHATE MGL			
(I) GRAVIMATRIC			
(II) TURBIDITY MATRIC			
SODIUM MGL			
CALCIUM as CaCO ₃ MGL	4	6	0
MAGNESIUM as CaCO ₃ MGL	8	2	0
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY JTU/NTU	1	2	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MGL			
(I) TITRATION			
(II) NESSELERIZATION			
HARDNESS AS CaCO ₃ MGL	1	4	6
TOTAL COLIFORM MPN/100 ML	2	0	
TOTAL DISSOLVED SOLID MGL	3	5	6

MICRO POLLUTANT (WATER) VALUE

ARSENIC, μg/L				
CADMIMUM, 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 MGL	1	5	4	0
AMMONIA NITROGEN MGL				
(I) COLOURIMETRIC MGL				
(II) DISTILLATION TITRATION MGL				
BORAN DISSOLVED MGL				
PHOSPHATE MGL				
NITRATE (NO ₂) MGL				
PHENOL/PHTHALEIN ALKALINITY MGL				
TOTAL SUSPENDED SOLID MGL	2	2	0	
POTASSIUM MGL				
FLUORIDE MGL				
ARSENIC, μg/L				

MICRO POLLUTANT (SEDIMENT) VALUE

CADMIMUM, μg/L				
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				

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	6	2	1	1	8	1	2	3	0	MINDAT / GLOWDAT
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	9	0	1	1	8	1	2	3	0	STATION
3. WEATHER	Cloudy	√Clear	Windy	Raining							Bore well water in the Premises of Prakriti Industries, Rawabhatta, Raipur
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	√>100 cm	Flood							BORE WELL WATER
5. COLOUR & INTENSITY	√Clear	Turbid	Green	Brown							S.K. Khanna (Lab. Assr. Grade-II)
6. ODOUR	√None	fishy	H ₂ S	Other							Scientist
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None	√None	Moderate	High							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

PHYSICO-CHEMICAL PARAMETERS

PHYSICO-CHEMICAL PARAMETERS

PARAMETER	VALUE
TEMPERATURE °C	25.0
pH	7.36
CONDUCTIVITY μS/CM	458.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	186.0
NITROGEN (NO ₂) MG/L	
DISSOLVED OXYGEN MG/L	0.8
BOD MG/L	
COD MG/L	8.0
CHLORIDE MG/L	
(I) ARGENTOMETRIC	44.0
(II) MERCURIMETRIC	
SULPHATE MG/L	
(I) GRAVIMETRIC	
(II) TURBIDITY MATRIC	
SODIUM MG/L	
CALCIUM as CaCO ₃ MG/L	46.8
MAGNESIUM as CaCO ₃ MG/L	13.65
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	

PHYSICO-CHEMICAL PARAMETERS

PARAMETER	VALUE
FIXED DISSOLVED SOLID MG/L	190.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORON DISSOLVED MG/L	
PHOSPHATE MG/L	
NITRATE MG/L	
PHENOL/PTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	26.0
POTASSIUM MG/L	
FLUORIDE MG/L	
ARSENIC μg/L	
CADMIUM μg/L	
COPPER μg/L	
CHROMIUM (TOTAL) μg/L	

PHYSICO-CHEMICAL PARAMETERS

PARAMETER	VALUE
CADMIUM μg/L	
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	

PHYSICO-CHEMICAL PARAMETERS

PARAMETER	VALUE
BIO MONITORING	
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

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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 7895/वैज्ञा/क्षेका/छ.प.सं.मं/2018 रायपुर दिनांक 23/02/2018

प्रति,

सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मंडल,
मुख्यालय, नया रायपुर (छ.ग.)



विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूने की विश्लेषण रिपोर्ट माह फरवरी 2018.
महोदय,

उपरोक्त विषयांतर्गत माह फरवरी 2018 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.)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINNARS/GEMS

STATION CODE	1	0	9	9	8	1	2	1	0	MINDAT / GLOWDAT
DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	3	0	2	1	8	1	2	1	0
WEATHER	Cloudy	vClear	vClear	Windy	Windy	Windy	Flood	Rating		STATION : RIVER MAHANADI AT RAJIM
APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	> 100 cm							NEAR ROAD BRIDGE
COLOR & INTENSITY	vClear	Turbid	Green	Brown						TYPE : RIVER
ODOUR	vNone	fishy	H ₂ S	Other						COMPLETED BY : S.K. Khanna (Lab. Asst. Grade-II), Sanjay Singh (Lab. Asst. Grade-II)
VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	vNone	vNone	Moderate	High						VERIFIED BY : Scientist
HUMAN ACTIVITIES AROUND STATION	Cattle	vNone	Industrial area	Other						AGENCY : REGIONAL OFFICE CHHATTISGARH ENVIRONMENT CONSERVATION
LOCATION DETAIL	v/U/s of town or Industrial area	Industrial area	D/s of town or Industrial area	Other						BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	26.0
pH	7.86
CONDUCTIVITY μS/CM	244.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	121.0
NITROGEN (NO ₃) MG/L	*
DISSOLVED OXYGEN MG/L	7.2
BOD MG/L	*
COD MG/L	18.0
CHLORIDE MG/L	
(I) ARGENTOMETRIC	27.0
(II) MERCURIMETRIC	
SULPHATE MG/L	
(I) GRAVIMETRIC	
(II) TURBIDITY METRIC	*
SODIUM MG/L	*
CALCIUM as CaCO ₃ MG/L	33.6
MAGNESIUM as CaCO ₃ MG/L	82.9
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M/S	

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	
ELDRIN, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	

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	
ELDRIN, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	

PHYSICO-CHEMICAL PARAMETERS VALUE

FIXED DISSOLVED SOLID MG/L	92.0
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	46.0
POTASSIUM MG/L	*
FLUORIDE MG/L	*
ARSENIC, μg/L	
CADMIUM, μg/KG	

BIO MONITORING VALUE

SAPROBITY	
DIVERSITY INDEX	
P/R RATIO	

Remark :- * Instrument Failure

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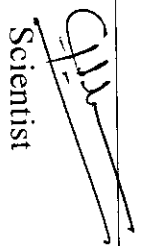
Billing Pro-forma for MINARS for the Month of February 2018

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
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	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	135	105	150	75
Amount			45	45	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

 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 2364/क्षेका/वैज्ञा/छ.प.सं.मं/2018 रायपुर दिनांक 18/05/2018

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 अप्रैल 2018.

महोदय

उपरोक्त विषयांतर्गत माह अप्रैल 2018 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.	रिपोर्ट संलग्न है।
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 सप्लाय 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 सप्लाय 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।

Add Sec/CE(I/C)ACE(R/L)
SE(B/M/S) / SSO/EE/CC
PRO / SO (A/C) / Stf. 0

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 / GIOWDAT				
2. DATE & TIME OF SAMPLE TAKEN (DDMMYY)	2 5 0 4 1 8	1	7	5	5	RIVER MAHANADI AT RAJIM
3. WEATHER	Cloudy	Clear	Windy	Raining		NEAR ROAD BRIDGE
4. APPROX. DEPTH OF MAIN STREAM	50 cm	50-100 cm	Green	Flood		RIVER
5. COLOUR & INTENSITY	Clear	Turbid		Brown		K.C. Sahu (Chemist), Sanjay Singh (Lab./Asst. Grade-II)
6. ODOUR	None	fishy	H ₂ S	Other		Scientist
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY		None	Moderate	High		REGIONAL OFFICE, CHHATTISGARH
8. HUMAN ACTIVITIES AROUND STATION	Cattle	yclon Forming	Other			ENVIRONMENT CONSERVATION
9. LOCATION DETAILS	Us 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	2 8	0
pH	7	7 4
CONDUCTIVITY µS/CM	2 4	8 0
ALKALINITY MG/L (TOTAL)		
(I) ELECTROMETRIC		
(II) VISUAL TITRATION	1 1	8 0
NITROGEN (NO ₃) MG/L	6	2
DISSOLVED OXYGEN MG/L		
BOD MG/L	1 8	0
COD MG/L	3 0	0
CHLORIDE MG/L		
(I) ARGENTOMETRIC		
(II) MERCURIMETRIC		
SULPHATE MG/L		
(I) GRAVIMETRIC		
(II) TURBIDITY METER	8 2	0
SODIUM MG/L	3 3	0
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 JTU/NTU	2 6	0
VELOCITY OF FLOW M/SEC		
(I) CURRENT METER		
(II) FLOAL		
(III) CHEMICAL		
TOTAL KJELDAHAL NITROGEN MG/L		
(I) TITRATION		
(II) Nesslerization	1 1	5 0
HARDNESS AS CaCO ₃ MG/L		
TOTAL COLIFORM MPN/100ML	1 5	6 0
TOTAL DISSOLVED SOLID MG/L	1 5	6 0

PHYSICO-CHEMICAL PARAMETERS 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	
ELDRIN 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 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	
TOTAL SUSPENDED SOLID MG/L	3 0 0
POTASSIUM MG/L	
FLUORIDE MG/L	

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	
ELDRIN µg/l	
CARBAMATE µg/l	
2-4D µg/L	
MELATHION µg/L	
PARATHION µg/L	
BIO MONITORING VALUE	
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

Handwritten signature and initials.

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GILOWDAT				
	1	2	6	4	5
2. DATE & TIME OF SAMPLE TAKEN (DD MM/YY)	2	5	0	4	1
3. WEATHER	Cloudy	Clear	Windy	Raining	
4. APPROX. DEPTH OF MAIN STREAM	50 cm	>100 cm	Green	Brown	
5. COLOUR & INTENSITY	Clear	Turbid			
6. ODOUR	None	fishy	H ₂ S	Other	
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	None	Moderate	High		
8. HUMAN ACTIVITIES AROUND STATION	Cattle	Industrial area	D/s of Town or Industrial area	Pilgrim Centre - Bathing Ghat	
9. LOCATION DETAIL	U/s of town or Industrial area				

COMPLETED BY: KC. Saha (Chemist), Sanjay Singh (Lab. Asst. Grade-II)

VERIFIED BY: Scientist

AGENCY: REGIONAL OFFICE, CHHATTISGARH

ENVIRONMENT CONSERVATION

BOARD RAIPUR (C G)

MICRO POLLUTANT (WATER)

MICRO POLLUTANT (SEDIMENT)

PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)	VALUE	MICRO POLLUTANT (SEDIMENT)	VALUE
TEMPERATURE °C	28	CADMIUM, µg/l		CHROMIUM (TOTAL), µg/KG	
pH	7.2	COPPER, µg/l		NICKEL, µg/l	
CONDUCTIVITY µS/CM	242	CHROMIUM (TOTAL), µg/L		ZINC, µg/l	
ALKALINITY MG/L (TOTAL)	0	NICKEL, µg/l		MERCURY, µg/l	
(I) ELECTROMETRIC		ZINC, µg/L		IRON (TOTAL), µg/KG	
(II) VISUAL TITRATION	1.6	MERCURY, µg/l		LEAD, µg/KG	
NITROGEN (NO ₃) MG/L	0	IRON (TOTAL), µg/l		BIC (TOTAL), µg/L	
DISSOLVED OXYGEN MG/L	6.2	LEAD, µg/l		DDT (TOTAL), µg/l	
BOD MG/L	0	BIC (TOTAL), µg/l		ENDOSULPHAN, µg/l	
CHEMICAL OXYGEN DEMAND MG/L	0	DDT (TOTAL), µg/l		DIELDRIN, µg/l	
(I) ARGENTOMETRIC	2.8	ENDOSULPHAN, µg/l		ELDORIN, µg/l	
(II) MERCURIMETRIC	0	DIELDRIN, µg/l		CARBAMATHI, µg/l	
SULPHATE MG/L		ELDORIN, µg/l		2-4D, µg/l	
(I) GRAVIMETRIC		CARBAMATHI, µg/l		MELATHION, µg/l	
(II) TURBIDITY METRIC		2-4D, µg/L		PARATHION, µg/l	
SODIUM MG/L		MELATHION, µg/l			
CALCIUM as CaCO ₃ MG/L	78	PARATHION, µg/l			
MAGNESIUM as CaCO ₃ MG/L	32				
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M ³ /S					
PHYSICO-CHEMICAL PARAMETERS	VALUE				
TURBIDITY JT/NTU	2.6	PHYSICO-CHEMICAL PARAMETERS	VALUE		
VELOCITY OF FLOW M/SEC	0	FIXED DISSOLVED SOLID MG/L	76		
(I) CURRENT METER		AMMONIA NITROGEN MG/L			
(II) FLOAL		(I) COLOURIMETRIC MG/L			
(III) CHEMICAL		(II) DISTILLATION TITRATION MG/L			
TOTAL KIELDAHAL NITROGEN MG/L		BORAN DISSOLVED MG/L			
(I) TITRATION		PHOSPHATE MG/L			
(II) NITROGENIZATION		NITRATE (NO ₃) MG/L			
HARDNESS AS CaCO ₃ MG/L	110	PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL COLIFORM MPN/100ML	0	TOTAL SUSPENDED SOLID MG/L	24		
TOTAL DISSOLVED SOLID MG/L	0	POTASSIUM MG/L			
ARSENIC, µg/l		FLUORIDE MG/L			
		ARSENIC, µg/l			
		CADMIUM, µg/KG			
		COPPER, µg/l			

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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)	2	4	0	4	1	8	1	8	0	5
3. WEATHER	Cloudy	< 50 cm	> 100 cm	> 100 cm	Windy	Raining	STATION : RIVER KUAROON AT BHAJAGAON			
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	< 50 cm	Turbid	Green	Green	Flood	US Near w/s intake well			
5. COLOUR & INTENSITY	< 50 cm	< 50 cm	Turbid	Green	Green	Brown	TYPE : RIVER			
6. ODOUR	< 50 cm	< 50 cm	fishy	H ₂ S	Moderate	Other	COMPLETED BY : K.C. Sahu (Chemist), Sanjay Singh (Lab. Asst. Grade-II)			
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	< 50 cm	< 50 cm	None	Moderate	High	Other	VERIFIED BY : Scientist			
8. HUMAN ACTIVITIES AROUND STATION	Cattle	< 50 cm	None	Moderate	High	Other	AGENCY : REGIONAL OFFICE, CHHATTISGARH			
9. LOCATION DETAILS	< 50 cm	< 50 cm	None	Moderate	High	Other	ENVIRONMENT CONSERVATION			
	< 50 cm	< 50 cm	None	Moderate	High	Other	BOARD RAIPUR (C.G)			

PHYSICO-CHEMICAL PARAMETERS

MICRO POLLUTANT (WATER)

MICRO POLLUTANT (SEDIMENT)

PHYSICO-CHEMICAL PARAMETERS	VALUE
TEMPERATURE °C	33.0
pH	7.68
CONDUCTIVITY µS/CM	218.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	116.0
(II) VISUAL TITRATION	
NITROGEN (NO ₃) MG/L	6.4
DISSOLVED OXYGEN MG/L	
BOD MG/L	
COD MG/L	
CHLORIDE MG/L	
(I) ARGENTOMETRIC	3.8
(II) MERCURIMETRIC	
SULPHATE MG/L	
(I) GRAVIMETRIC	
(II) TURBIDIMETRIC	
SODIUM MG/L	
CALCIUM as CaCO ₃ MG/L	77.0
MAGNESIUM as CaCO ₃ MG/L	34.0
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M/S	

PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	82.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORON DISSOLVED MG/L	
PHOSPHATE MG/L	
NITRATE MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	38.0
POTASSIUM MG/L	
FLUORIDE MG/L	
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:	1	2	6	6	MINDAT / GLOWDAT					
2. DATE & TIME OF SAMPLE TAKEN (DDMMYY)	2	4	0	4	1	8	1	4	5	STATION
3. WEATHER	Cloudy	vClear	vClear	vClear	Windy	Raining				RIVER SHEONATHI AT SIMGA NEAR SIMGA - BEMETARA ROAD BRIDGE
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	> 50-100 cm	> 100 cm		Green	Flood				
5. COLOUR & INTENSITY	vClear	Turbid	Green			Brown				
6. ODOUR	vNone	fishy	H ₂ S			Other				
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	vNone	vNone	Moderate			High				
8. HUMAN ACTIVITIES AROUND STATION	Cattle	U/s of town or Industrial area	Industrial area		D/s of Town or Industrial area	Pilgrim Centre / vBathing Ghat				
9. LOCATION DETAIL										BOARD RAIPUR (C G)
COMPLETED BY	: K. C. Sahu (Chemist), Sanjay Singh (Lab. Asst. Grade-II)									
VERIFIED BY	: Scientist									
AGENCY	: REGIONAL OFFICE CHHATTISGARH ENVIRONMENT CONSERVATION									

PHYSICO-CHEMICAL PARAMETERS

MICRO POLLUTANT (WATER)

MICRO POLLUTANT (SEDIMENT)

PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)				VALUE	MICRO POLLUTANT (SEDIMENT)				VALUE	
		1	3	8	0							
TEMPERATURE °C	30.0					TOTAL DISSOLVED SOLID MG/L					CADMIUM, µg/KG	
pH	7.85					ARSENIC, µg/L					COPPER, µg/L	
CONDUCTIVITY µS/CM	256.0					CADMIUM, µg/L					CHROMIUM (TOTAL), µg/KG	
ALKALINITY MG/L (TOTAL)						COPPER, µg/L					NICKEL, µg/L	
(I) ELECTROMETRIC						CHROMIUM (TOTAL), µg/L					ZINC, µg/L	
(II) VISUAL TITRATION	114.0					NICKEL, µg/L					MERCURY, µg/L	
NITROGEN (NO ₃) MG/L	6.4					ZINC, µg/L					IRON (TOTAL), MG/KG	
DISSOLVED OXYGEN MG/L						MERCURY, µg/L					LEAD, µg/KG	
BOD MG/L	1.20					IRON (TOTAL), µg/L					BHC (TOTAL), µg/L	
COD MG/L						LEAD, µg/L					DDT (TOTAL), µg/L	
CHLORIDE (MG/L)						BHC (TOTAL), µg/L					ENDOSULPHAN, µg/L	
(I) ARGENTOMETRIC	26.0					DDT (TOTAL), µg/L					DIFLIDKN, µg/L	
(II) MERCURIMATRIC						ENDOSULPHAN, µg/L					ELDRIN, µg/L	
SULPHATE (MG/L)						ELDRIN, µg/L					CARBAMATE, µg/L	
(I) GRAVIMETRIC						CARBAMATE, µg/L					2-4D, µg/L	
(II) TURBIDITY MATRIC						2-4D, µg/L					MELATHION, µg/L	
SODIUM MG/L						MELATHION, µg/L					PARATHION, µg/L	
CALCIUM as CaO, MG/L	67.0					PARATHION, µg/L						
MAGNESIUM as CaCO ₃ MG/L	32.0											
FECAL COLIFORM MPN/100 ML												
INSTANTANEOUS DISCHARGE M/S												
PHYSICO-CHEMICAL PARAMETERS	VALUE					VALUE					VALUE	
TURBIDITY JT/NTU						FIXED DISSOLVED SOLID MG/L	7	4	0		SAPROBITY	
VELOCITY OF FLOW M/SEC	2.0					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 (NO ₃) MG/L						
(I) TITRATION						NITRATE (NO ₃) MG/L						
(II) Nesslerization						PHENOL/PHTHALEIN ALKALINITY MG/L						
HARDNESS AS CaCO ₃ MG/L	99.0					TOTAL SUSPENDED SOLID MG/L	3	4	0			
TOTAL COLIFORM MPN/100ML						POTASSIUM MG/L						
						FLUORIDE MG/L						
						ARSENIC, µg/L						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1 8 5 3			MINDAT / GLOWDAI		
	2. DATE & TIME OF SAMPLE TAKEN (DD MM/YY)	3. WEATHER	4. CLOUDY	5. 50-100 cm	6. >100 cm	7. RAINING
8. HUMAN ACTIVITIES AROUND STATION	9. LOCATION DETAIL	10. VISIBILITY	11. WINDY	12. GREEN	13. FLOOD	14. BROWN
15. ODOUR	16. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	17. HUMAN ACTIVITIES AROUND STATION	18. CATTLE	19. U/s of town or industrial area	20. D/s of Town or Industrial area	21. Pilgrim Centre / Bathing Ghat
22. STATION	23. TYPE	24. COMPLETED BY	25. VERIFIED BY	26. AGENCY	27. ENVIRONMENT CONSERVATION	28. BOARD RAIPUR (C.G)
29. DATE	30. TIME	31. PLACE	32. NAME	33. ADDRESS	34. PIN CODE	35. DISTRICT

PHYSICO-CHEMICAL PARAMETERS VALUE

PARAMETER	VALUE
TEMPERATURE °C	34.0
pH	7.68
CONDUCTIVITY µS/CM	238.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	120.0
NITROGEN (NO ₃) MG/L	
DISSOLVED OXYGEN MG/L	6.4
BOD MG/L	
COD MG/L	24.0
CHLORIDE MG/L	
CHLOROMETRIC	
(II) MERCURIMETRIC	36.0
SULPHATE MG/L	
(I) GRAVIMETRIC	
(II) TURBIDIMETRIC	
SODIUM MG/L	
CALCIUM as CaCO ₃ MG/L	82.0
MAGNESIUM as CaCO ₃ MG/L	36.0
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS VALUE	
TURBIDITY JTU/NTU	32.0
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	118.0
TOTAL COLIFORM MPN/100 ML	
TOTAL DISSOLVED SOLID MG/L	156.0

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	
FIXED DISSOLVED SOLID MG/L	78.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORON DISSOLVED MG/L	
PHOSPHATE MG/L	
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	42.0
POTASSIUM MG/L	
FLUORIDE MG/L	

MICRO POLLUTANT (SEDIMENT) VALUE

PARAMETER	VALUE
ARSENIC µg/g	
CADMIUM µg/KG	
COPPER µg/L	
CHROMIUM (TOTAL) µg/KG	
NICKEL 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

AMJNARS/GEMS

1. STATION CODE	1	8	5	1	MINDAT / GLOWDAT							
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	5	0	4	1	8	1	0	5	0	STATION	RIVER MAHANADI AT SIHAWA
3. WEATHER	Cloudy		vClear	vClear	Windy	Windy		Raining			TYPE	ORIGIN POINT OF RIVER MAHANADI
4. APPROX. DEPTH OF MAIN STREAM	v50 cm	50-100 cm	Turbid	Green	Green	Green		Flood			COMPILED BY	K.C. Sahu (Chemist) Sanjay Singh (Lab. Asst. Grade-II)
5. COLOUR & INTENSITY	vNone	fishy	H ₂ S	Moderate	Other	High		High			VERIFIED BY	Scientist
6. ODOUR	Cattle		Industrial area	D/s of Town or Industrial area	Industrial area	vOther		vOther			AGENCY	REGIONAL OFFICE: CHHATTISGARH
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	U/s of town or Industrial area		Industrial area	Industrial area	Industrial area						ENVIRONMENT	CONSERVATION
8. HUMAN ACTIVITIES AROUND STATION											BOARD	RAIPUR (C.G)
9. LOCATION DETAIL												

PHYSICO-CHEMICAL PARAMETERS VALUE MICRO POLLUTANT (WATER) VALUE MICRO POLLUTANT (SEDIMENT) VALUE

TEMPERATURE °C	3	0	0	ARSENIC, µg/L		CADMIUM, µg/KG	
pH	7	6	8	CADMIUM, µg/l		COPPER, µg/l	
CONDUCTIVITY µS/CM	2	6	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	1	1	3	ZINC, µg/L		MERCURY, µg/L	
NITROGEN (NO ₃) MG/L				MERCURY, µg/l		IRON (TOTAL), MG/KG	
DISSOLVED OXYGEN MG/L	5	9		IRON (TOTAL), µg/l		LEAD, µg/KG	
BOD MG/L				LEAD, µg/l		BHC (TOTAL), µg/L	
COD MG/L	2	2	0	BHC (TOTAL), µg/L		DDT (TOTAL), µg/l	
CHLORIDE MG/L				DDT (TOTAL), µg/l		ENDOSULPHAN, µg/L	
(I) ARGENTOMETRIC	2	7	0	ENDOSULPHAN, µg/l		DIELDRIN, µg/l	
(II) MERCURIMETRIC				DIELDRIN, µg/l		ELDRIN, µg/l	
SULPHATE MG/L				ELDRIN, µg/l		CARBAMATE, µg/L	
(I) GRAVIMETRIC				CARBAMATE, µg/l		2-4D, µg/l	
(II) TURBIDIMETRIC				2-4D, µg/L		MELATHION, µg/L	
SODIUM MG/L				MELATHION, µg/l		PARATHION, µg/l	
CALCIUM as CaCO ₃ MG/L	7	2	0	PARATHION, µg/l			
MAGNESIUM as CaCO ₃ MG/L	3	4	0				
FECAL COLIFORM MPN/100 ML							
INSTANTANEOUS DISCHARGE M/S							
PHYSICO-CHEMICAL PARAMETERS VALUE				PHYSICO-CHEMICAL PARAMETERS VALUE			
TURBIDITY JT/NTU	2	8	0	FIXED DISSOLVED SOLID MG/L	8	6	0
VELOCITY OF FLOW M/SEC				AMMONIA NITROGEN MG/L			
(I) CURRENT METER				(I) COLOURIMETRIC MG/L			
(II) FLOAL				(II) DISTILLATION TITRATION MG/L			
(III) CHEMICAL				BORAN DISSOLVED MG/L			
TOTAL KJELDAHAL NITROGEN MG/L				PHOSPHATE MG/L			
(I) TITRATION				NITRATE (NO ₃) MG/L			
(II) NESSELEIZATION				PHENOLPHTHALEIN ALKALINITY MG/L			
HARDNESS AS CaCO ₃ MG/L	1	0	6	TOTAL SUSPENDED SOLID MG/L	3	4	0
TOTAL COLIFORM MPN/100ML				POTASSIUM MG/L			
TOTAL DISSOLVED SOLID MG/L	1	5	6	FLUORIDE MG/L			
				ARSENIC, µg/l			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	8	5	2	MINDAT / GLOW/DAT						
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	6	0	4	1	8	1	5	1	0	RIVER MAHANADI AT ARANG
3. WEATHER	Cloudy	\Clear	\Clear	Windy	Raining						
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	> 100 cm	Green	Flood						
5. COLOUR & INTENSITY	\Clear	Turbid		Green	Brown						
6. ODOUR	\None	fishy	H ₂ S	Moderate	Other						
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	\None	\None	\None	\None	High						
8. HUMAN ACTIVITIES AROUND STATION	Cattle	Industrial area	D/s of town or Industrial area	Other							
9. LOCATION DETAILS	U/s of town or Industrial area					vPilgrim Centre / Bathing Ghat					
COMPLETED BY : K.C. Sahu (Chemist), Sanjay Singh (Lab. Asst. Grade-II)											
VERIFIED BY : Scientist											
AGENCY : REGIONAL OFFICE, CHHATTISGARH ENVIRONMENT CONSERVATION											
BOARD RAIPUR (C G)											

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	3	0	0
pH	7	6	7
CONDUCTIVITY µS/CM	2	6	2
ALKALINITY MGE (TOTAL)			
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	2	9
NITROGEN (NO ₃) MG/L			
DISSOLVED OXYGEN MG/L	5	6	
BOD MG/L			
COD MG/L	2	4	0
CHLORIDE MG/L			
(I) ARGENTOMETRIC	3	4	0
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC			
(II) TURBIDITY MATRIX			
SODIUM MG/L			
CALCIUM as CaCO ₃ MG/L	7	6	0
MAGNESIUM as CaCO ₃ MG/L	4	2	0
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS VALUE			
TURBIDITY JT/UNTU	3	6	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	1	8
TOTAL COLIFORM MPN/100ML			

MICRO POLLUTANT (WATER) VALUE

TOTAL DISSOLVED SOLID MG/L	1	5	4	0
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	8	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				
PHENOL/PHTHALEIN ALKALINITY MG/L				
TOTAL SUSPENDED SOLID MG/L	4	4	0	
POTASSIUM MG/L				

MICRO POLLUTANT (SEDIMENT) VALUE

FLUORIDE MG/L				
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 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		
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	6	0	4	1	8	Windy
3. WEATHER	Cloudy		vClear	> 100 cm	> 100 cm	Raining	Flood
4. APPROX. DEPTH OF MAIN STREAM	50 cm	vClear	Turbid	Green	Brown		
5. COLOUR & INTENSITY							
6. ODOUR		vNone	fishy	H ₂ S	Other		
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY			vNone	Moderate	High		
8. HUMAN ACTIVITIES AROUND STATION	Cattle		meat on forming	Industrial area	Other		
9. LOCATION DETAIL	1/3 of town or Industrial area		D/s of Town or Industrial area		Pilgrim Centre / Bathing Ghat		

PHYSICO-CHEMICAL PARAMETERS

MICRO POLLUTANT (WATER)

MICRO POLLUTANT (SEDIMENT)

PARAMETERS	VALUE	VALUE	VALUE
TEMPERATURE °C	28.0		
pH	7.32		
CONDUCTIVITY µS/CM	448		
ALKALINITY MG/L (TOTAL)	0		
(I) ELECTROMETRIC	178		
(II) VISUAL TITRATION	0		
NITROGEN (NO ₃) MG/L	0		
DISSOLVED OXYGEN MG/L	9		
BOD MG/L	9		
COD MG/L	0		
CHLORIDE MG/L	46		
(I) ARGENTOMETRIC	0		
(II) MERCURIMETRIC	0		
SULPHATE MG/L	0		
(I) GRAVIMETRIC	0		
(II) TURBIDIMETRIC	0		
SODIUM MG/L	0		
CALCIUM as CaCO ₃ MG/L	114		
MAGNESIUM as CaCO ₃ MG/L	54		
FECAL COLIFORM MPN/100 ML	0		
INSTANTANEOUS DISCHARGE M ³ /S	0		
PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY JTU/NTU	15		
VELOCITY OF FLOW M/SEC	0		
(I) CURRENT METER	0		
(II) FLOAL	0		
(III) CHEMICAL	0		
TOTAL KJELDAHL NITROGEN MG/L	0		
(I) TITRATION	0		
(II) NITROGENIZATION	0		
HARDNESS AS CaCO ₃ MG/L	168		
TOTAL COLIFORM MPN/100 ML	0		
TOTAL DISSOLVED SOLID MG/L	338		

PARAMETERS	VALUE	VALUE	VALUE
ARSENIC µg/l			
CADMIUM µg/l			
COPPER µg/l			
CHROMIUM (TOTAL) 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			
FLDRINE µg/l			
CARBAMATH µg/L			
2-4D µg/l			
MELATHION µg/L			
PARATHION µg/L			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
FIXED DISSOLVED SOLID MG/L	184		
AMMONIA NITROGEN MG/L	0		
(I) COLOURIMETRIC MG/L	0		
(II) DISTILLATION TITRATION MG/L	0		
BORON DISSOLVED MG/L	0		
PHOSPHATE MG/L	0		
NITRATE MG/L	0		
PHENOLPHTHALEIN ALKALINITY MG/L	0		
TOTAL SUSPENDED SOLID MG/L	270		
POTASSIUM MG/L	0		
FLUORIDE MG/L	0		
ARSENIC µg/l	0		
CADMIUM µg/l	0		

PARAMETERS	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	
FLDRINE µg/l	
CARBAMATH µg/L	
2-4D µg/l	
MELATHION µg/L	
PAPATHION µg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDEX	
P/R RATIO	

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क्षेत्रीय कार्यालय
छ.ग. पर्यावरण संरक्षण मण्डल
कबीर नगर व्यावसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 4069 वैज्ञा/क्षेका/छ.प.सं.मं/2018 रायपुर दिनांक 17/7/2018

प्रति,

सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मंडल,
मुख्यालय, नया रायपुर (छ.ग.)

विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूने की विश्लेषण रिपोर्ट माह जून 2018.

महोदय,

उपरोक्त विषयांतर्गत माह जून 2018 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।

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28/7/18

Add Sec/CE(I/C)ACE(R/L)
SE(B/M/S)/SSO/EE/CC
PRO/SO(A/C)/Stt. O

MEMBER SECRETARY

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23/7/18

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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)	2	6	0	6	1	8	1	1	4	0	RIVER MAJANADI AT RAJIM
3. WEATHER	Cloudy		✓Clear	Windy	Green	Raining	NEAR ROAD BRIDGE				
4. APPROX. DEPTH OF MAIN STREAM	✓50 cm	50-100 cm	Turbid	Green	Brown	RIVER					
5. COLOR & INTENSITY	✓Clear	None	fishy	H ₂ S	Other	S.K.Khanna (Lab.Asst. Grade-II), Sanjay Singh (Lab.Asst. Grade-II)					
6. ODOUR	✓None	None	melon	Forming	High	Scientist					
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	Cattle	U/s of town or Industrial area	D/s of Town or Industrial area	Other	REGIONAL OFFICE CHHATTISGARH						
8. HUMAN ACTIVITIES AROUND STATION	U/s of town or Industrial area		D/s of Town or Industrial area	Other	ENVIRONMENT CONSERVATION						
9. LOCATION DETAIL	BOARD RAIPUR (C G)										

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	3	0	0
pH			
CONDUCTIVITY µS/CM	2	3	8
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	3	4
NITROGEN (NO ₃) MG/L	*		
DISSOLVED OXYGEN MG/L	5	6	
BOD MG/L	*		
COD MG/L	2	8	0
CHLORIDE MG/L			
(I) ARGENTOMETRIC	3	8	0
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC	*		
(II) TURBIDITY METRIC	*		
SODIUM MG/L	*		
CALCIUM as CaCO ₃ MG/L	8	8	0
MAGNESIUM as CaCO ₃ MG/L	4	2	0
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY JTU/NTU			
VELOCITY OF FLOW M/SEC	3	0	0
(I) CURRENT METER			
(II) FLOW			
(III) CHEMICAL			
TOTAL KJEL DAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NITROGENIZATION			
HARDNESS AS CaCO ₃ MG/L	1	2	6
TOTAL COLIFORM MPN/100NL			
TOTAL DISSOLVED SOLID MG/L	1	7	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	*		
NITRATE (NO ₃) MG/L			
PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	4	4	0
POTASSIUM MG/L	*		
FLUORIDE MG/L	*		
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			

Remark :- * Instrument Failure

8

Chh

FL

Billing Pro-forma for MINARS for the Month of June 2018

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	*	*	*	*	*	*	*
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	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	135	135	105	150	75		
Amount			*	45	45	*	45	*	45	115	45	45	45	45	*	45	*	75	75	75	*	15	*	200	*	*	*	*	*	*	*	*	

Total Analysis Charges Rs.	870=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.	3270=00

Rs. Three Thousand Two Hundred Seventy Only

KA
Chemist

[Signature]
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 4688/क्षेका/वैज्ञा/छ.प.सं.मं/2018 रायपुर दिनांक 23/8/2018

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 2018.

महोदय,

उपरोक्त विषयांतर्गत माह जुलाई 2018 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.	रिमांक
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 मेसर्स प्रकृति इण्डस्ट्रीज, रावांभाठा, रायपुर	1621	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

Add Sec/CE(I/C)AD/CE(R/L),
SE(B/M/S) / SS0/EE/CC
PRO / SO (A/C) / Stf. O

क्षेत्रीय अधिकारी

क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

MEMBER SECRETARY

14/9/18

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	MINDAT / GLOWDAT									
	1	2	6	5	7	1	8	1	3	3
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	9	0	7	1	8	1	3	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		√None		Moderate		High			
8. HUMAN ACTIVITIES AROUND STATION	VU/s of town or Industrial area		melon Forming		D/s of Town or Industrial area		Pilgrim Centre / Bathing Ghat			
9. LOCATION DETAIL										
	STATION		: RIVER KHAROON AT BHATAGAON		TYPE		: RIVER			
	COMPLETED BY		: S.K. Khanna (Lab Asst. Grade-II), Sanjay Singh (Lab. Asst. Grade-II)		VERIFIED BY		: Scientist			
	AGENCY		: REGIONAL OFFICE CHHATTISGARH ENVIRONMENT CONSERVATION BOARD RAIPUR (C.G.)		AGENCY		: ENVIRONMENT CONSERVATION BOARD RAIPUR (C.G.)			

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	8	0
PH			
CONDUCTIVITY μS/CM	5	1	2
ALKALINITY MG/L (TOTAL)			0
(D) ELECTROMETRIC			
(D) VISUAL TITRATION	1	2	4
NITROGEN (NO ₃) MG/L			0
DISSOLVED OXYGEN MG/L	6		8
BOD MG/L			
COD MG/L	3	3	0
CHLORIDE MG/L			
(D) ARGENTOMETRIC	3	6	0
(D) MERCURIMETRIC			
SULPHATE MG/L			
(D) GRAVIMETRIC			
(D) TURBIDITY MAFRIC			
SODIUM MG/L			
CALCIUM as CaCO ₃ MG/L	6	8	0
MAGNESIUM as CaCO ₃ MG/L	4	2	0
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

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											

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											

PHYSICO-CHEMICAL PARAMETERS VALUE

TURBIDITY JTU/NTU	1	0	6	0
VELOCITY OF FLOW M/SEC				
(D) CURRENT METER				
(D) FLOAL				
(D) CHEMICAL				
TOTAL KJELDAHAL NITROGEN MG/L				
(D) TITRATION				
(D) NITRIFICATION				
HARDNESS AS CaCO ₃ MG/L	1	1	0	0
TOTAL COLIFORM MPN/100 ML				
TOTAL DISSOLVED SOLID MG/L	2	4	7	0

PHYSICO-CHEMICAL PARAMETERS VALUE

FIXED DISSOLVED SOLID MG/L	1	0	5	0
AMMONIA NITROGEN MG/L				
(D) COLOURMETRIC MG/L				
(D) DISTILLATION TITRATION MG/L				
BORAN DISSOLVED MG/L				
PHOSPHATE MG/L				
NITRATE MG/L				
PHENOL/PTHALAIN ALKALINITY MG/L				
TOTAL SUSPENDED SOLID MG/L	1	1	0	0
POTASSIUM MG/L				
FLUORIDE MG/L				
ARSENIC, μg/L				

BIO MONITORING VALUE

SAPROBITY											
DIVERSITY INDAX											
P/R RATIO											

45

K

Chh

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	8	5	1	1	8	1	5	1	5	MINDAT / GLOWDAT
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	1	0	7	1	8	1	5	1	5	STATION
3. WEATHER	√Cloudy		Clear		Windy		Raining				RIVER MAHANADI AT SIHAWA
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm		50-100 cm		> 100 cm		Flood				ORIGIN POINT OF RIVER MAHANADI
5. COLOUR & INTENSITY	Clear		√Turbid		Green		Brown				TYPE
6. ODOUR	√None		fishy		H ₂ S		Other				COMPLETED BY
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None		None		Moderate		High				VERIFIED BY
8. HUMAN ACTIVITIES AROUND STATION	Cattle		melon Forming		√Other						AGENCY
9. LOCATION DETAIL	U/s of town or Industrial area		D/s of Town or Industrial area		√Pilgrim Centre / Bathing Ghat						REGIONAL OFFICE CHHATTISGARH ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	6	0
PH			
CONDUCTIVITY µS/CM	3	5	4
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	3	6
NITROGEN (NO ₃) MG/L			0
DISSOLVED OXYGEN MG/L			
BOD MG/L	6		6
COD MG/L	3	2	0
CHLORIDE MG/L			
(I) ARGENTOMETRIC	3	2	0
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC			
(II) TURBIDITY METRIC			
SODIUM MG/L			
CALCIUM as CaCO ₃ MG/L	8	2	0
MAGNESIUM as CaCO ₃ MG/L	4	2	0
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

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			
ELDRIN µg/L			
CARBAMATE µg/L			
2-4D µg/L			
MELATHION µg/L			
PARATHION 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			
ELDRIN µg/L			
CARBAMATE µg/L			
2-4D µg/L			
MELATHION µg/L			
PARATHION µg/L			

BIO MONITORING VALUE

SAPROBITY			
DIVERSITY INDEX			
P/R RATIO			

PHYSICO-CHEMICAL PARAMETERS VALUE

FIXED DISSOLVED SOLID MG/L	1	3	4
AMMONIA NITROGEN MG/L			0
(I) COLORIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L			
PHOSPHATE MG/L			
NITRATE (NO ₃) MG/L			
PHENOL PHTHALAIN ALKALINITY MG/L			
TOTAL SPENDED SOLID MG/L	9	8	0
POTASSIUM MG/L			
FLUORIDE MG/L			
ARSENIC µg/L			

PHYSICO-CHEMICAL PARAMETERS VALUE

TURBIDITY JTU/NTU	7	4	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAT			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) Nesslerization			
HARDNESS AS CaCO ₃ MG/L	1	2	4
TOTAL COLIFORM MPN/100ML			
TOTAL DISSOLVED SOLID MG/L	1	8	4

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Signature

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	8	5	2	8	1	4	3	0	MINDAT / GLOWDAT STATION
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	2	7	0	7	1	8	1	4	3	RIVER MAHANADI AT ARANG
3. WEATHER	✓Cloudy	Clear	Clear	Windy	Raining					NEAR GANDHI SETU NH -6
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), Sanjay Singh (Lab. Asst. Grade-II)
6. ODOUR	✓None	fishy	H ₂ S	Other						Scientist
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	✓None	✓None	Moderate	High						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	Other	Other						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	TOTAL DISSOLVED SOLID MGL	210.0	FLUORIDE MGL	
pH		ARSENIC, µg/L		ARSENIC, µg/L	
CONDUCTIVITY µS/CM	484.0	CADMIUM, µg/L		CADMIUM, µg/KG	
ALKALINITY MGL (TOTAL)		COPPER, µg/L		COPPER, µg/L	
(I) ELECTROMETRIC		CHROMIUM (TOTAL), µg/L		CHROMIUM (TOTAL), µg/KG	
(II) VISUAL TITRATION	136.0	NICKEL, µg/L		NICKEL, µg/L	
NITROGEN (NO ₂) MGL		ZINC, µg/L		ZINC, µg/L	
DISSOLVED OXYGEN MGL	6.6	MERCURY, µg/L		MERCURY, µg/L	
BOD MGL		IRON (TOTAL), µg/L		IRON (TOTAL), µg/KG	
COD MGL	42.0	LEAD, µg/L		LEAD, µg/KG	
CHLORIDE MGL		BHC (TOTAL), µg/L		BHC (TOTAL), µg/L	
(I) ARGENTOMETRIC	38.0	DDT (TOTAL), µg/L		DDT (TOTAL), µg/L	
(II) MERCURIMETRIC		ENDOSULPHAN, µg/L		ENDOSULPHAN, µg/L	
SULPHATE MGL		DIELDRIN, µg/L		DIELDRIN, µg/L	
(I) GRAVIMETRIC		ELDRIANE, µg/L		ELDRIANE, µg/L	
(II) TURBIDITY MATRIC		CARBAMATE, µg/L		CARBAMATE, µg/L	
SODIUM MGL		2-4D, µg/L		2-4D, µg/L	
CALCIUM as CaCO ₃ MGL	67.0	MELATHION, µg/L		MELATHION, µg/L	
MAGNESIUM as CaCO ₃ MGL	43.0	PARATHION, µg/L		PARATHION, µg/L	
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M/S					
PHYSICO-CHEMICAL PARAMETERS	VALUE	PHYSICO-CHEMICAL PARAMETERS	VALUE	BIO MONITORING	VALUE
TURBIDITY JT/UNTU	88.0	FIXED DISSOLVED SOLID MGL	132.0	SAPROBITY	
VELOCITY OF FLOW M/SEC		AMMONIA NITROGEN MGL		DIVERSITY INDAX	
(I) CURRENT METER		(I) COLOURIMETRIC MGL		P/R RATIO	
(II) FLOAL		(II) DISTILLATION TITRATION MGL			
(III) CHEMICAL		BORAN DISSOLVED MGL			
TOTAL KJELDAHAL NITROGEN MGL		PHOSPHATE MGL			
(I) TITRATION		NITRATE (NO ₃) MGL			
(II) NITROSELERIZATION		PHENOL/PHTHALEIN ALKALINITY MGL			
HARDNESS AS CaCO ₃ MGL	110.0	TOTAL SUSPENDED SOLID MGL	104.0		
TOTAL COLIFORM MPN/100ML		POTASSIUM MGL			

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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 5076 वैज्ञा/क्षेका/छ.प.सं.मं/2018 रायपुर दिनांक 14/9/2018

प्रति,

✓ सदस्य सचिव,

छ.ग. पर्यावरण संरक्षण मंडल,

मुख्यालय, अटल नगर, रायपुर (छ.ग.)

विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूने की विश्लेषण रिपोर्ट माह अगस्त 2018.

महोदय,

उपरोक्त विषयांतर्गत माह अगस्त 2018 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/OC
PRO / SO (A/C) / Str. O

MEMBER SECRETARY

क्षेत्रीय अधिकारी

क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

#

530
25/9/18

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 7 0 8 1 8	STATION : RIVER MAHANADI AT RAJIM				
3. WEATHER	√Cloudy	Clear	Windy	1	5	1 5
4. APPROX. DEPTH OF MAIN STREAM	√< 50 cm	50-100 cm	>100 cm	Raining		
5. COLOR & INTENSITY	Clear	√Turbid	Green	Flood		
6. ODOUR	√None	fishy	H ₂ S	Brown		
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY		√None	Moderate	Other		
8. HUMAN ACTIVITIES AROUND STATION	Cattle	melon	Forming	High		
9. LOCATION DETAIL	U/s of town or Industrial area	D/s of Town or Industrial area	√Other	vPilgrim 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	26	CADMIUM µg/L		COPPER µg/l	
pH		COPPER µg/L		CHROMIUM (TOTAL) µg/KG	
CONDUCTIVITY µSCM	456	CHROMIUM (TOTAL) µg/L		NICKEL µg/l	
ALKALINITY MG/L (TOTAL)	0	NICKEL µg/L		ZINC µg/l	
(D) ELECTROMETRIC	138	MERCURY µg/L		IRON (TOTAL) MG/KG	
(D) VISUAL TITRATION	*	MERCURY µg/L		LEAD µg/KG	
NITROGEN (NO ₃) MG/L	6	IRON (TOTAL) µg/L		BHC (TOTAL) µg/L	
DISSOLVED OXYGEN MG/L	6	LEAD µg/L		DDT (TOTAL) µg/L	
BOD MG/L	*	BHC (TOTAL) µg/L		ENDOSULFAN µg/l	
COD MG/L	288	DDT (TOTAL) µg/L		DILT DRIN µg/l	
CHLORIDE MG/L		ENDOSULFAN µg/L		ELDRIN µg/l	
(D) ARGENTOMETRIC	44	DIELDRIN µg/l		CARBAMATH µg/l	
(D) MERCURIMETRIC		ELDRIN µg/l		2-4D µg/l	
SULPHATE MG/L		CARBAMATH µg/l		MILVATION µg/l	
(D) GRAVIMETRIC	*	2-4D µg/l		PARATHION µg/l	
(D) TURBIDIMETRIC	*	MELATHION µg/l			
SODIUM MG/L	*	PARATHION µg/l			
CALCIUM as CaCO ₃ MG/L	87				
MAGNESIUM as CaCO ₃ MG/L	44				
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE (L/S)					
PHYSICO-CHEMICAL PARAMETERS	VALUE	PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY NTU	98	FIXED DISSOLVED SOLID MG/L	188		
VELOCITY OF FLOW M/S		AMMONIA NITROGEN MG/L			
(D) CURRENT METER		(D) CHLORIMETRIC MG/L			
(D) FLOW		(D) DIETHYLAMINE TITRATION MG/L			
(D) CHEMICAL		BORAN DISSOLVED MG/L			
TOTAL KJTD (TOTAL NITROGEN) MG/L		PHOSPHATE MG/L	*		
(D) TITRATION		NITRATE NITROGEN			
(D) NITRIFICATION		PHENOL PHIBATEIN ALKALINITY MG/L			
HARDNESS AS CaCO ₃ MG/L	13	TOTAL SUSPENDED SOLID MG/L	134		
TOTAL COLIFORM MPN/100 ML	0	POTASSIUM MG/L	*		
TOTAL DISSOLVED SOLID MG	246	FLUORIDE MG/L	*		
ARSENIC µg		ARSENIC µg/l			
		CADMIUM µg/KG			

Remark :- * Instrument Failure

Signature

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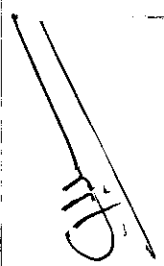
Billing Pro-forma for MINARS for the Month of August 2018

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	*	*	*	*	*	*	*	*	
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 Jhawa Dhamtari	1851	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
River Kharoon at Bendri	1853	Q	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Bore well Rawabhata Raipur	1621	HA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Bore well Tatibandh Raipur	1620	HA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
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	*	115	45	*	*	45	*	45	*	75	75	75	75	15	*	200	*	*	*	*	*	*	*	*	

Total Analysis Charges Rs.	825.00
Sampling Charges @ Rs. 2200/- per Sample	2200.00
Hiring of Boat, Purchase of Ice & contingencies @ Rs. 200/- per Sample	200.00
Total Amount Rs.	3225.00

Rs. Three Thousand Two Hundred Twenty Five Only





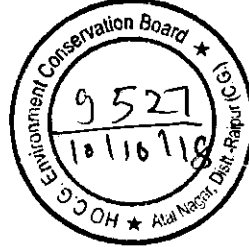


क्षेत्रीय कार्यालय
छ.ग. पर्यावरण संरक्षण मण्डल
कबीर नगर व्यवसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 5335 वैज्ञा/क्षेका/छ.प.सं.मं/2018 रायपुर दिनांक 03/10/2018

प्रति,

सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मंडल,
मुख्यालय, अटल नगर, रायपुर (छ.ग.)



विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनें की विश्लेषण रिपोर्ट माह सितम्बर 2018.

महोदय,

उपरोक्त विषयांतर्गत माह सितम्बर 2018 में मीनार्स कार्यक्रमानुसार 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।

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12/10/18

Add Sec/CE(I/C)ACE(R/L)
SE(B/M/S) / SSO/EE/CC
PRO / SO (A/C) / Stf. O

MEMBER SECRETARY

[Handwritten signature]
12/10/18

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

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12/10/18

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	0	9	9	9	1	7	4	0	MINDAT / GLOWDAT
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	5	0	9	1	8	1	7	4	0
3. WEATHER	√Cloudy	Clear	Windy	Raining	STATION : RIVER MAHANADI AT RAJIM					
4. APROX. DEPTH OF MAIN STREAM	√< 50 cm	>100 cm	Green	Flood	NEAR ROAD BRIDGE					
5. COLOR & INTENSITY	Clear	√Turbid	H ₂ S	Other	RIVER					
6. ODOUR	√None	fishy	Moderate	High	Sanjay Singh (Lab.Asst. Grade-II)					
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None	√None	High	Other	Y.K.Bhaskar (Lab.Attnd.)					
8. HUMAN ACTIVITIES AROUND STATION	Cattle	U/s of town or Industrial area	√Other	√Pilgrim Centre / Bathing Ghat	Scientist					
9. LOCATION DETAIL					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	27.0	CADMIUM, µg/L		COPPER, µg/L	
pH		COPPER, µg/L		CHROMIUM (TOTAL), µg/KG	
CONDUCTIVITY µS/CM	392.0	CHROMIUM (TOTAL), µg/L		NICKEL, µg/L	
ALKALINITY MG/L (TOTAL)		NICKEL, µg/L		ZINC, µg/L	
(I) ELECTROMETRIC		MERCURY, µg/L		MERCURY, µg/L	
(II) VISUAL TITRATION	143.0	IRON (TOTAL), µg/L		IRON (TOTAL), MG/KG	
NITROGEN (NO ₂) MG/L	* 6.6	LEAD, µg/L		LEAD, µg/KG	
DISSOLVED OXYGEN MG/L	* 2.64	BHC (TOTAL), µg/L		BHC (TOTAL), µg/L	
BOD MG/L	2.64	DDT (TOTAL), µg/L		DDT (TOTAL), µg/L	
CHLORIDE MG/L	48.0	ENDOSULPHAN, µg/L		ENDOSULPHAN, µg/L	
(I) ARGENTOMETRIC		DIELDRIN, µg/L		DIELDRIN, µg/L	
(II) MERCURIMETRIC		ELDRINE, µg/L		ELDRINE, µg/L	
SULPHATE MG/L		CARBAMATE, µg/L		CARBAMATE, µg/L	
(I) TURBIDITY METRIC	* 8.4	2-4D, µg/L		2-4D, µg/L	
(II) GRAVIMETRIC	* 4.4	MELATHION, µg/L		MELATHION, µg/L	
SODIUM MG/L	4.4	PARATHION, µg/L		PARATHION, µg/L	
CALCIUM as CaCO ₃ MG/L	4.4				
MAGNESIUM as CaCO ₃ MG/L					
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M ³ /S					
PHYSICO-CHEMICAL PARAMETERS	VALUE		VALUE		VALUE
TURBIDITY JTUNTU	86.0	PHYSICO-CHEMICAL PARAMETERS		BIO MONITORING	
VELOCITY OF FLOW M/SEC		FIXED DISSOLVED SOLID MG/L	154.0	SAPROBITY	
(I) CURRENT METER		AMMONIA NITROGEN MG/L		DIVERSITY INDEX	
(II) FLOAL		(I) COLOURIMETRIC MG/L		P/R RATIO	
(III) CHEMICAL		(II) DISTILLATION TITRATION MG/L			
TOTAL KJELDAHAL NITROGEN MG/L		BORAN DISSOLVED MG/L	*		
(I) TITRATION		PHOSPHATE MG/L			
(II) NESSELERIZATION		NITRATE (NO ₃) MG/L			
HARDNESS AS CaCO ₃ MG/L	128.0	PHENOLPHTHALEIN ALKALINITY MG/L			
TOTAL COLIFORM MPN/100NL		TOTAL SUSPENDED SOLID MG/L	120.0		
TOTAL DISSOLVED SOLID MG/L	232.0	POTASSIUM MG/L	*		
ARSENIC, µg/L		FLUORIDE MG/L	*		
		ARSENIC, µg/L			
		CADMIUM, µg/KG			

Remark :- * Instrument Failure

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क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल

कबीर नगर व्यावसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 5875 / क्षेत्रा / वैज्ञा / छ.प.सं.मं / 2018

रायपुर

दिनांक 15/11/2018

प्रति,

सदस्य सचिव,

छ.ग. पर्यावरण संरक्षण मंडल,

मुख्यालय, अटल नगर, रायपुर (छ.ग.)



विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनों की विश्लेषण रिपोर्ट माह अक्टूबर 2018.
महोदय,

उपरोक्त विषयांतर्गत माह अक्टूबर 2018 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.	रिपोर्ट संलग्न है।
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 मेसर्स प्रकृति इण्डस्ट्रीज, रावांभाठा, रायपुर	1621	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. 0

क्षेत्रीय अधिकारी
क्षेत्रीय कार्यालय, रायपुर (छ.ग.)

MEMBER SECRETARY

13/12/18

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	1	0	1	8	1	0	1	1	5	STATION	: RIVER MAHANADI AT RAJIM
3.	WEATHER	Cloudy	√Clear	√Clear	√Clear	Windy	√>100 cm	√>100 cm	Raining	Flood	Brown	Other	TYPE	: RIVER
4.	APPROX. DEPTH OF MAIN STREAM	<50 cm	√Clear	Turbid	fishy	H ₂ S	Moderate	Forming	High	Other			COMPLETED BY	: S.K.Khanna (Lab.Asst. Grade-II), Sanjay Singh (Lab.Asst. Grade-II)
5.	COLOUR & INTENSITY	√None	√None	√None	√None	√None	√None	√None	√None	√None	√None	√None	VERIFIED BY	: Scientist
6.	ODOUR	√None	√None	√None	√None	√None	√None	√None	√None	√None	√None	√None	AGENCY	: REGIONAL OFFICE CHHATTISGARH
7.	VISIBLE EFFLUENT DISCHARGE IN PROXIMITY	Cattle	√U/s of town or Industrial area	√U/s of town or Industrial area	√U/s of town or Industrial area	√U/s of town or Industrial area	√U/s of town or Industrial area	√U/s of town or Industrial area	√U/s of town or Industrial area	√U/s of town or Industrial area	√U/s of town or Industrial area	√U/s of town or Industrial area		: ENVIRONMENT CONSERVATION
8.	HUMAN ACTIVITIES AROUND STATION													: BOARD RAIPUR (C G)
9.	LOCATION DETAIL													

PHYSICO-CHEMICAL PARAMETERS VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE
TEMPERATURE °C	25.0
pH	7.6
CONDUCTIVITY μSCM	366.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	142.0
NITROGEN (NO ₂) MG/L	
DISSOLVED OXYGEN MG/L	6.4
BOD MG/L	
COD MG/L	32.4
CHLORIDE MG/L	
(I) ARGENTOMETRIC	46.0
(II) MERCURIMETRIC	
SULPHATE MG/L	
(I) GRAVIMETRIC	
(II) TURBIDITY METRIC	
SODIUM MG/L	
CALCIUM as CaCO ₃ MG/L	35.2
MAGNESIUM as CaCO ₃ MG/L	11.7
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M/S	
PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JTUNTU	7.6
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	136.0
TOTAL COLIFORM MPN/100ML	
TOTAL DISSOLVED SOLID MG/L	214.0

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	114.0
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	82.0
POTASSIUM MG/L	
FLUORIDE MG/L	

MICRO POLLUTANT (SEDIMENT) VALUE

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
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

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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	√Clear	Windy	1	2	3	4	5	6
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm	50-100 cm	> 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	Industrial area	√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 AROUND STATION

PARAMETERS	2	3	4	5	6	7	8	9	10
TEMPERATURE °C									
pH									
CONDUCTIVITY μS/CM	3	1	6	0					
ALKALINITY MG/L (TOTAL)									
(I) ELECTROMETRIC									
(II) VISUAL TITRATION	1	3	4	0					
NITROGEN (NO ₂) MG/L									
DISSOLVED OXYGEN MG/L	6	4							
BOD MG/L									
COD MG/L	2	8	4						
CHLORIDE MG/L									
(I) ARGENTOMETRIC	3	3	0						
(II) MERCURIMETRIC									
SULPHATE MG/L									
(I) GRAVIMETRIC									
(II) TURBIDITY MATRIC									
SODIUM MG/L									
CALCIUM as CaCO ₃ MG/L	3	3	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 JTUNTU	5	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	2	2	0					
TOTAL COLIFORM MPN/100ML									
TOTAL DISSOLVED SOLID MG/L	1	7	4	0					

MICRO POLLUTANT (WATER)

PARAMETERS	1	2	3	4	5	6	7	8	9	10
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	0	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	6	8	0							
POTASSIUM MG/L										
FLUORIDE MG/L										
ARSENIC, μg/L										

MICRO POLLUTANT (SEDIMENT)

PARAMETERS	1	2	3	4	5	6	7	8	9	10
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	1	8	5	2	MINDAT / GLOWDAT					
	1	0	1	0	1	0	1	0	3	0
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	RIVER MAHANADI AT ARANG									
3. WEATHER	NEAR GANDHI SETU NH -6									
4. APROX. DEPTH OF MAIN STREAM	RIVER									
5. COLOUR & INTENSITY	S.K.Khanna (Lab.Asst. Grade-II), Sanjay Singh (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

MICRO POLLUTANT (WATER)

MICRO POLLUTANT (SEDIMENT)

VALUE

VALUE

VALUE

PHYSICO-CHEMICAL PARAMETERS	2	5	0	VALUE
TEMPERATURE °C				
pH				
CONDUCTIVITY µS/CM	3	5	8	0
ALKALINITY MG/L (TOTAL)				
(I) ELECTROMETRIC				
(II) VISUAL TITRATION	1	3	4	0
NITROGEN (NO ₂) MG/L				
DISSOLVED OXYGEN MG/L	6		8	
BOD MG/L				
COD MG/L	3	2		2
CHLORIDE MG/L				
(I) ARGENTOMETRIC	3	7		0
(II) MERCURIMATRIC				
SULPHATE MG/L				
(I) GRAVIMETRIC				
(II) TURBIDITY MATRIC				
SODIUM MG/L				
CALCIUM as CaCO ₃ MG/L	2	9		6
MAGNESIUM as CaCO ₃ MG/L	9			5
FECAL COLIFORM MPN/100 ML				
INSTANTANEOUS DISCHARGE M ³ /S				
PHYSICO-CHEMICAL PARAMETERS				VALUE
TURBIDITY JT/NTU	7	2		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	1	3	0
TOTAL COLIFORM MPN/100ML				

TOTAL DISSOLVED SOLID MG/L	2	0	8	0	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	2	1		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	9	7			0
POTASSIUM MG/L					

FLUORIDE MG/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	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	6	2	1	0	1	0	1	8	1	6	1	1
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	0	1	0	1	0	1	0	1	0	1	0	0
3. WEATHER	Cloudy	√Clear	Windy	√Clear	Windy	√Clear	Windy	√Clear	Windy	√Clear	Raining		
4. APPROX. DEPTH OF MAIN STREAM	<50 cm	√Clear	50-100 cm	Turbid	Green	√>100 cm	Flood						
5. COLOUR & INTENSITY							Brown						
6. ODOUR	√None		fishy	√None	H ₂ S	Other							
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT							High						
8. HUMAN ACTIVITIES AROUND STATION	Cattle		U/s of town or Industrial area		Industrial area		D/s of Town or Industrial area				Pilgrim Centre / Bathing Ghat		
9. LOCATION DETAIL													

PHYSICO-CHEMICAL PARAMETERS VALUE MICRO POLLUTANT (WATER) VALUE MICRO POLLUTANT (SEDIMENT) VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE
TEMPERATURE °C	25.0
pH	
CONDUCTIVITY μSCM	436.0
ALKALINITY MG/L (TOTAL)	
(I) ELECTROMETRIC	
(II) VISUAL TITRATION	164.0
NITROGEN (NO ₂) MG/L	
DISSOLVED OXYGEN MG/L	2.4
BOD MG/L	
COD MG/L	6.8
CHLORIDE MG/L	
(I) ARGENTOMETRIC	46.0
(II) MERCURIMATRIC	
SULPHATE MG/L	
(I) GRAVIMATRIC	
(II) TURBIDITY MATRIC	
SODIUM MG/L	
CALCIUM as CaCO ₃ MG/L	46.4
MAGNESIUM as CaCO ₃ MG/L	14.14
FECAL COLIFORM MPN/100 ML	
INSTANTANEOUS DISCHARGE M ³ /S	
PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JTU/NTU	12.0
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	168.0
TOTAL COLIFORM MPN/100 ML	
TOTAL DISSOLVED SOLID MG/L	322.0

PHYSICO-CHEMICAL PARAMETERS	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	174.0
AMMONIA NITROGEN MG/L	
(I) COLOURIMETRIC MG/L	
(II) DISTILLATION TITRATION MG/L	
BORON DISSOLVED MG/L	
PHOSPHATE MG/L	
NITRATE MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	36.0
POTASSIUM MG/L	
FLUORIDE MG/L	
ARSENIC, μg/L	
CADMIUM, μg/L	

PHYSICO-CHEMICAL PARAMETERS	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
SARROBITY	
DIVERSITY INDAX	
P/R RATIO	

Billing Pro-forma for MINARS for the Month of October 2018

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	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0
River Mahanadi at Rudri dam Dhamtari	1264	Q	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	
River Kharoon at Bhatagaon	1265	Q	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	
River Sheonath at Simga Arang	1266	Q	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	
River Mahanadi at Arang	1852	Q	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	
River Mahanadi at Sihawa Dhamtari	1851	Q	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	
River Kharoon at Bendri	1853	Q	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	
Bore well Rawabhata Raipur	1621	HA	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	
Total Sample			0	8	8	0	0	8	0	8	8	0	0	8	8	8	8	8	8	8	8	8	8	8	0	0	0	0	0	0	0	0	
Rate in Rs			45	45	45	45	45	150	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			-	360	360	-	-	360	-	920	360	-	-	360	-	360	-	600	600	600	600	120	-	1600	-	-	-	-	-	-	-	-	-

Total Analysis Charges Rs.	6600=00
Sampling Charges @ Rs. 2200×8 per Sample	17600=00
Hiring of Boat, Purchase of ice & contingencies @ Rs. 200×8 per Sample	1600=00
Total Amount Rs.	25800=00

Rs. Twenty Five Thousand Eight Hundred Only

(Signature)
Scientist

(Signature)
Chemist

Regional Officer



क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मण्डल

कबीर नगर व्यवसायिक परिसर, छत्तीसगढ़ गृह निर्माण मण्डल कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 6318/वैज्ञा/क्षेका/छ.प.सं.मं/2018 रायपुर दिनांक 19/12/2018

प्रति,

✓ सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मंडल,
मुख्यालय, अटल नगर, रायपुर (छ.ग.)



विषय :- मीनार्स कार्यक्रम अंतर्गत एकत्रित जल नमूनें की विश्लेषण रिपोर्ट माह नवम्बर 2018.

महोदय,

उपरोक्त विषयांतर्गत माह नवम्बर 2018 में मीनार्स कार्यक्रमानुसार 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 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.)

Add Sec/CE(I/C)ACE(R/L)
SE(B/M/S) / SSO/EE/CC
PRO / SO (A/C) / Stf. 0

MEMBER SECRETARY

22/12/18

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARSGEMS

1. *STATION CODE	1	0	9	9	8	1	3	0	0	MINDAT / GLOWDAT
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	4	1	1	1	1	3	0	0	STATION
3. WEATHER	Cloudy	✓Clear	✓Clear	Windy						RIVER MAHANADI AT RAJIM
4. APPROX. DEPTH OF MAIN STREAM	✓< 50 cm	50-100 cm	>100 cm							NEAR ROAD BRIDGE
5. COLOR & INTENSITY	Clear	✓Turbid	Green	Brown						TYPE : RIVER
6. ODOUR	✓None	fishy	H ₂ S	Other						COMPLETED BY : S. K. Khanna (Lab. Asst. Grade-II), Sanjay Singh (Lab. Asst. Grade-II)
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	✓None	None	Moderate	High	Other					VERIFIED BY : Scientist
8. HUMAN ACTIVITIES AROUND STATION	Cattle	U/s of town or Industrial area	melon Forming	D/s of town or Industrial area	✓Other	✓Pilgrim Centre / Bathing Ghat				AGENCY : REGIONAL OFFICE CHHATTISGARH ENVIRONMENT CONSERVATION BOARD RAIPUR (C G)
9. LOCATION DETAIL										

PHYSICO-CHEMICAL PARAMETERS VALUE MICRO POLLUTANT (WATER) VALUE MICRO POLLUTANT (SEDIMENT) VALUE

TEMPERATURE °C	2	4	0
pH			
CONDUCTIVITY μS/CM	3	4	6
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	3	8
NITROGEN (NO ₂) MG/L	*		0
DISSOLVED OXYGEN MG/L	6	2	
BOD MG/L	*		
COD MG/L	3	4	6
CHLORIDE MG/L			
(I) ARGENTOMETRIC	4	3	0
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC			
(II) TURBIDITY METRIC	*		
SODIUM MG/L	*		
CALCIUM as CaCO ₃ MG/L	8	3	0
MAGNESIUM as CaCO ₃ MG/L	4	6	0
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY JTU/NTU	5	6	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION	1	2	9
HARDNESS AS CaCO ₃ MG/L			0
TOTAL COLIFORM MPN/100ML			
TOTAL DISSOLVED SOLID MG/L	2	1	1
ARSENIC, μg/L			0

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	0	2
AMMONIA NITROGEN MG/L			0
(I) COLOURIMETRIC MG/L			
(II) DISTILLATION TITRATION MG/L			
BORAN DISSOLVED MG/L			
PHOSPHATE MG/L	*		
NITRATE (NO ₂) MG/L			
PHENOL/PHTHALEN ALKALINITY MG/L			
TOTAL SUSPENDED SOLID MG/L	7	2	0
POTASSIUM MG/L			
FLUORIDE MG/L			*
ARSENIC, μg/L			
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 INDEX			
P/R RATIO			

Remark :- * Instrument Failure

88 1/4 1/2

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1 0 9 9					MINDAT / GLOWDAT					
	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)					STATION					
2. WEATHER	1	0	1	2	1	8	1	1	0	0	RIVER MAHANADI AT RAJIM
3. APROX. DEPTH OF MAIN STREAM	Cloudy	√Clear	Windy	>100 cm	Raining						NEAR ROAD BRIDGE
4. COLOR & INTENSITY	√Clear	Turbid	Green	Brown							RIVER
5. ODOUR	√None	fishy	H ₂ S	Other							S.K. Khanna (Lab. Asst. Grade-II), Sanjay Singh (Lab. Asst. Grade-II)
6. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT		√None	Moderate	High							Scientist
7. HUMAN ACTIVITIES AROUND STATION	Cattle	U/s of town or Industrial area	D/s of Town or Industrial area	√Pilgrim Centre / Bathing Ghat							REGIONAL OFFICE CHHATTISGARH
8. LOCATION DETAIL											ENVIRONMENT CONSERVATION
9.											BOARD RAIPUR (C G)

PHYSICO-CHEMICAL PARAMETERS VALUE

TEMPERATURE °C	2	3	5
pH			
CONDUCTIVITY μS/CM	3	2	6
ALKALINITY MG/L(TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	4	2
NITROGEN (NO ₂) MG/L	*		
DISSOLVED OXYGEN MG/L	6	4	
BOD MG/L	*		
COD MG/L	3	2	4
CHLORIDE MG/L			
(I) ARGENTOMETRIC	4	6	0
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC			
(II) TURBIDITY METRIC	*		
SODIUM MG/L	*		
CALCIUM as CaCO ₃ MG/L	8	4	0
MAGNESIUM as CaCO ₃ MG/L	4	2	0
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			

PHYSICO-CHEMICAL PARAMETERS VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE
TURBIDITY JTUNTU	5
VELOCITY OF FLOW M/SEC	2
(I) CURRENT METER	
(II) FLOAL	
(III) CHEMICAL	
TOTAL KJELDAHAL NITROGEN MG/L	
(I) TITRATION	
(II) NESSELERIZATION	
HARDNESS AS CaCO ₃ MG/L	1
TOTAL COLIFORM MPN/100NL	2
TOTAL DISSOLVED SOLID MG/L	6
ARSENIC, μg/L	0

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	
DELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	

PHYSICO-CHEMICAL PARAMETERS VALUE

PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	9
AMMONIA NITROGEN MG/L	7
(I) COLOURIMETRIC MG/L	0
(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	6
POTASSIUM MG/L	2
FLUORIDE MG/L	0
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	
DELDRIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	

BIO MONITORING VALUE

BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDEX	
P/R RATIO	

Remark :- * Instrument Failure

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Billing Pro-forma for MINARS for the Month of December 2018

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	*	*	*	*	*	*	*	*	*
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 Titibandh Raipur	1620	H A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total Sample			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Rate in Rs			45	45	45	45	45	150	115	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	*	*	45	*	45	*	*	75	75	75	*	*	200	*	*	*	*	*	*	*	*	

Total Analysis Charges Rs.	825=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.	3225=00

Rs. Three Thousand Two Hundred Twenty Five Only

[Signature]
Chemist

[Signature]
Scientist

Scientist

Regional Officer