

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 2 0 1 1 9

1 4 0 0

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

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

5. COLOUR & INTENSITY

Clear Turbid Green Brown 1=Light 2=Moderate 3=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	ARBITRARY CODE							ACQ FLAGE	VALUE	
				0	2	0	1	N	2	5			0
TEMPERATURE, °C	0	2	0	0	1	N	2	5	0				
pH	1	0	3	0	2	N	8	5					
CONDUCTIVITY, μmhos/cm	0	2	0	4	1	N	2	0	2				
ALKALINITY, mg/L													
(1) ELECTROMETRIC	1	0	1	0	1	N							
(2) VISUAL TITRATION	1	0	1	0	2	N	1	3	2				
NITROGEN(NO3 + NO2), 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					
CHLORIDE, mg/L													
(1) ARGENTOMETRIC	1	7	2	0	1	N	3	0					
(2) MERCURIMETRIC	1	7	2	0	1	N							
SULPHATE, mg/L													
(1) GRAVIMETRIC	1	6	3	0	1	N							
(2) TURBIDIMETRIC	1	6	3	0	2	N	3	2					
SODIUM, mg/L	1	1	1	0	3	N							
CALCIUM as CaCO3, mg/L	2	0	1	0	1	N	1	5					
MAGNESIUM as CaCO3, mg/L	1	2	1	0	3	N	6	3	4				
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1	N							
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	6	7	N							
TURBIDITY, JTU/NTU	0	2	1	0	1	N	4	2					
VELOCITY OF FLOW, m/sec													
(i) CURRENT METER	0	2	2	0	1	N							
(ii) FLOAT	0	2	2	0	2	N							
(iii) CHEMICAL	0	2	2	0	3	N							
TOTAL 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					
TOTAL COLIFORM, MPN/100ml	3	7	0	0	1	N	5	0					
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3	3	3	N	1	2	4				
FIXED DISSOLVED SOLIDS, mg/L	4	4	4	4	4	N	1	0	8				
AMMONIA NITROGEN, mg/L													
(i) COLOURIMETRY	0	7	5	5	5	N	2	0					
(ii) DISTILLATION TITRATION	0	7	5	5	1	N							
BORON DISSOLVED, mg/L	0	5	1	0	5	N							
PHOSPHATE, mg/L													
NITRITE, mg/L													
Fluoride, Mg/L													

Raj
CHEMIST

Adw
SCIENTIST

Al
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE:

N	E	W	3
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- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY):

2	8	0	1	1	9
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- WEATHER:

Cloudy	Clear	Windy	Raining
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- APPROX DEPTH OF MAIN STREAM:

<50cm.	50 - 100 m.	>100 cm.
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- COLOUR & INTENSITY:

Clear	Turbid	Green	Brown
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 $\sqrt{1}$ =Light $\sqrt{2}$ =Moderate $\sqrt{3}$ =High
- ODOUR:

None	√Fishy	H ₂ S	Other
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- VISIBLE EFFLUENT DISCHARGE IN PROXIMITY:

none	moderate	High
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- HUMAN ACTIVITIES AROUND STATION:

Cattle Wading	Meion Farming	√ Fishing	√ Other
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- LOCATION DETAIL:

U/S of Town or Industrial Area	D/S of Town or Industrial area
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STATION : Khudiya Dam Village- Khudiya, Lormi, District- Mungeli (C.G.)
 TYPE : Reservoir
 COMPLETED BY : R.R.Vaishnav (Chemist)
 VERIFIED BY : Dr. Anita Yadav (Scientist)
 AGENCY : R. O. C. E. C. B. Bilaspur


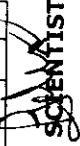
U/S of Town or Industrial Area	D/S of Town or Industrial area
Pilgrim Center / Bathing Ghat	√ Abstraction For Water Supply

WHO CODE AQC FLAG VALUE

DETERMINAND DETERMINAND ARBITRARY CODE AQC FLAG VALUE

TEMPERATURE, °C	0	2	0	0	1	N	2	4	0
pH	1	0	3	0	2	N	8	2	
CONDUCTIVITY, μmhos/cm	0	2	0	4	1	N	1	9	0
ALKALINITY, mg/L									
(1) ELECTROMETRIC	1	0	1	0	1	N			
(2) VISUAL TITRATION	1	0	1	0	2	N	1	4	4
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	2	
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	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	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	6	0
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	0	3	N	9	2	6
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1	N			

INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	6	7	N			
TURBIDITY, JTU/NTU	0	2	1	0	1	N	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) NITROGEN	0	7	0	0	4				
HARDNESS as CaCO ₃ mg/L	2	2	1	0	1	N	7	8	0
TOTAL COLIFORM, MPN/100ml	3	7	0	0	1	N	4	2	0
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3	3	3	N	9	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	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									

CHEMIST  CH. SCIENTIST 

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

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

STATION : River Mahanadi Sheorinarayan
 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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DETERMINDAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N 2 3	0	
pH	1 0 3 0 2 N 8 . 4		
CONDUCTIVITY, μmhos/cm	0 2 . 0 4 1 N 1 8 4 . 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 2 . 8		
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N 8 . 6		
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 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 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 4 . 3 9		
FECAL COLIFORM MPN/100mg/L	3 6 0 1 1 N		

R.R. Vaishnav
CHEMIST

Dr. Anita Yadav
SCIENTIST

DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6 7 N		
TURBIDITY, JTU/NTU	0 2 1 0 1 N 2 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 0 . 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 3 4 . 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 1 1 1 . 0		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1 . 8		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, Mg/L			

Dr. Anita Yadav
CA. 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 2 0 1 1 9**

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 4	3
PH	1 0 3 0	2 N 8	5
CONDUCTIVITY, µmhos/cm	0 2 0 4	1 N 2 1 8	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0	1 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 1 1 8	0
NITROGEN(NO3 + NO2), mg/L	0 7 1 0	5 N 3	3
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7	7
BOD, mg/L	0 8 2 0	1 N 2	0
COD, mg/L	0 8 3 0	1 N 2 4	0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 3 6	0
(2) MERCURIMETRIC	1 7 2 0	1 N	
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0	1 N	
(2) TURBIDIMETRIC	1 6 3 0	2 N 3 3	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO3, mg/L	2 0 1 0	1 N 1 5	2
MAGNESIUM as CaCO3, mg/L	1 2 1 0	3 N 6	3 4
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 4	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 CaCO3, mg/L	2 2 1 0	1 N 6 4	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 4 2	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N 1 1 8	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			

[Signature]
CHEMIST

[Signature]
CH. CHEMIST

Billing Pro-forma For MINARS for the Month of January -2019

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	-	-	-	-	-	-	-	-	-	-	
Mahanadi river at Sheornarayan	1282	Q	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	
Khutagnat Dam Village- Melnadih, Ratanpur, District- Bilaspur (C.G.)	NEW	Q	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	
Khudiya Dam Village- Khudiya, Lormi, District- Mungeli (C.G.)	NEW	Q	1	1	1	1+1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
Total Nos. of Samples			6	6	6	6+6	6	6	6	6	6	6	6	-	6	6	6	6	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-
Rate per sample in Rs.			45	45	90	45	150	115	45	45	75	45	45	105	45	75	75	75	75	15	45	200	75	-	-	-	-	-	-	-	-	-	-
Amount			270	270	540	270	900	690	270	450	450	270	270	-	270	450	450	450	450	90	270	1200	-	-	-	-	-	-	-	-	-	-	-

Total Analysis Charges Rs.	8100=00
Sampling and Transportation Charges Rs. (2400X10=24000.00)	14400=00
Total Amount Rs.	22500=00

Raja
Chemist

Ally
Scientist

Al
Ch. Chemist

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: **N E W 2**

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

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 $\sqrt{1}$ =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 $\sqrt{\text{Fishing}}$ 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 : Khutaghat Dam Village- Melinadih, Ratanpur, District-Bilaspur (C.G.)

TYPE : Reservoir

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
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TEMPERATURE, °c	0 2 0 0	1 N 2 4	1	INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N	
PH	1 0 3 0	2 N 8 4		TURBIDITY, JTU/NTU	0 2 1 0	1 N 6 4	0
CONDUCTIVITY, μ mhos/cm	0 2 0 4	1 N 2 8 0	0	VELOCITY OF FLOW, m/sec			
ALKALINITY, mg/L				(i) CURRENT METER	0 2 2 0	0 1 N	
(1) ELECTROMETRIC	1 0 1 0	1 N		(ii) FLOAT	0 2 2 0	2 N	
(2) VISUAL TITRATION	1 0 1 0	2 N 1 2 4	0	(iii) CHEMICAL	0 2 2 0	2 3 N	
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0	5 N 3 2		TOTAL KJELDAHL NITROGEN, mg/L			
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 7 2		(i) TITRATION	0 7 0 0	0 1 N	
BOD, mg/L	0 8 2 0	1 N 2 4		(ii) NESSELERIZATION	0 7 0 0	0 4	
COD, mg/L	0 8 3 0	1 N 2 6	0	HARDNESS as CaCO ₃ mg/L	2 2 1 0	1 N 8 2	0
CHLORIDE, mg/L				TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N 5 2	0
(1) ARGENTOMETRIC	1 7 2 0	1 N 4 0	0	TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 2 8	0
(2) MERCURIMETRIC	1 7 2 0	1 N		FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N 8 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 2 1	
(2) TURBIDIMETRIC	1 6 3 0	2 N 3 6	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	8	PHOSPHATE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 7 3 1		NITRITE, mg/L			
FECAL COLIFORM MPN/100mg/L	3 6 0 1	1 N		Fluoride, Mg/L			
INSTANTANEOUS DISCHARGE, m ³ /s	9 7 1 6	7 N					

CHEMIST

[Signature]
SCIENTIST

[Signature]
CH. SCIENTIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

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

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

WHO CODE AQC FLAGE VALUE

DETERMINAND	WHO CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0	1 N 2 4	5
pH	1 0 3 0	2 N 8	2
CONDUCTIVITY, μ mhos/cm	0 2 0 4	1 N 1 7 6	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 2 4	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N 8	8
BOD, mg/L	0 8 2 0	1 N 1 4	
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 2 4	0
SODIUM, mg/L	1 1 1 0	3 N	
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N 1 4	4
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N 4	3 9
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 2 0	0
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0	1 N	
(ii) FLOAT	0 2 2 0	2 N	
(iii) CHEMICAL	0 2 2 0	3 N	
TOTAL 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 5 4	0
TOTAL COLIFORM, MPN/100ml	3 7 0 0	1 N 2 1	
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 2 2	0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N 1 0 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			

Ch. Chemist
CHEMIST

Dr. Anita Yadav
SCIENTIST

Ch. Chemist
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 7 0 2 1 9** **1 1 3 0**

3. WEATHER **Cloudy** Clear Windy Raining

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

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

6. ODOUR **None** Fishy **H₂S** Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY none moderate High

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

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

STATION : **Hasdev River at Champa**

TYPE : **RIVER**

COMPLETED BY : **Jitendra Singh (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
PH	1	0	3	0	2
CONDUCTIVITY, μmhos/cm	0	2	0	4	1
ALKALINITY, mg/L					
(1) ELECTROMETRIC	1	0	1	0	1
(2) VISUAL TITRATION	1	0	1	0	2
NITROGEN(NO3 + NO2), mg/L	0	7	1	0	5
DISSOLVED OXYGEN, mg/L	0	8	1	0	1
BOD, mg/L	0	8	2	0	1
COD, mg/L	0	8	3	0	1
CHLORIDE, mg/L					
(1) ARGENTOMETRIC	1	7	2	0	1
(2) MERCURIMETRIC	1	7	2	0	1
SULPHATE, mg/L					
(1) GRAVIMETRIC	1	6	3	0	1
(2) TURBIDIMETRIC	1	6	3	0	2
SODIUM, mg/L	1	1	1	0	3
CALCIUM as CaCO3, mg/L	2	0	1	0	1
MAGNESIUM as CaCO3, mg/L	1	2	1	0	3
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1
INSTANTANEOUS DISCHARGE, m ³ /s	9	7	1	6	7

DETERMINDAND	ARBITRARY	CODE	AQC	FLAGE	VALUE
TURBIDITY, JTU/NTU	0	2	1	0	1
VELOCITY OF FLOW, m/sec	0	2	1	0	1
(I) CURRENT METER	0	2	2	0	1
(II) FLOAT	0	2	2	0	2
(III) CHEMICAL	0	2	2	0	3
TOTAL KJELDAHL NITROGEN, mg/L					
(I) TITRATION	0	7	0	0	1
(II) NITROGENIZATION	0	7	0	0	4
HARDNESS as CaCO3 mg/L	2	2	1	0	1
TOTAL COLIFORM, MPN/100ml	3	7	0	0	1
FECAL COLIFORM, MPN/100ml	3	7	0	0	1
TOTAL DISSOLVED SOLIDS, mg/L	3	3	3	3	3
FIXED DISSOLVED SOLIDS, mg/L	4	4	4	4	4
AMMONIA NITROGEN, mg/L					
(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					
NITRITE, mg/L					
Fluoride, Mg/L					

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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 0 2 1 9** **1 1 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 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: _____ 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 6 . 1		
pH	1 0 3 0 2 N 8 . 0		
CONDUCTIVITY, µmhos/cm	0 2 0 4 1 N 1 9 8 . 0		
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1 0 1 0 1 N		
(2) VISUAL TITRATION	1 0 1 0 2 N 1 2 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 8 . 1		
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 2 0 . 0		
(2) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE, mg/L			
(1) GRAVIMETRIC	1 6 3 0 1 N		
(2) TURBIDIMETRIC	1 6 3 0 2 N 2 8 . 0		
SODIUM, mg/L	1 1 1 0 3 N		
CALCIUM as CaCO ₃ , mg/L	2 2 1 0 1 N 1 6 . 8		
MAGNESIUM as CaCO ₃ , mg/L	1 2 0 1 0 3 N 4 . 3		
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 3 2 . 0		
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2 2 0 1 N		
(ii) FLOAT	0 2 2 0 2 N		
(iii) CHEMICAL	0 2 2 0 3 N		
TOTAL KJELDAHL NITROGEN, mg/L	0 7 0 0 1 N		
(i) TITRATION	0 7 0 0 4 N 6 0 . 0		
(ii) NITROGENIZATION	2 2 1 0 1 N 4 0 . 0		
HARDNESS as CaCO ₃ mg/L	3 7 0 0 1 N 4 0 . 0		
TOTAL COLIFORM, MPN/100ml			
FECAL COLIFORM, MPN/100ml			
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N 1 2 2 . 0		
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N 1 1 0 . 0		
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 1 . 7		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED, mg/L	0 5 1 0 5 N		
PHOSPHATE, mg/L			
NITRITE, mg/L			
Fluoride, mg/L			

Page
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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE
1 4 6 7
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)
2 8 0 2 1 9
3. WEATHER
Cloudy Clear Windy Raining
4. APPROX DEPTH OF MAIN STREAM

<input type="checkbox"/> <50cm.	<input checked="" type="checkbox"/> 50 - 100 m.	<input type="checkbox"/> >100 cm.
<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Turbid	<input type="checkbox"/> Green
<input type="checkbox"/> Colour & Intensity	<input type="checkbox"/> Brown	<input type="checkbox"/> 1=Light 2=Moderate 3=High
5. COLOUR & INTENSITY
6. ODOUR
 None Fishy H₂S Other
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY
 none moderate High
8. HUMAN ACTIVITIES AROUND STATION

<input type="checkbox"/> Cattle Wading	<input type="checkbox"/> Melon Farming	<input checked="" type="checkbox"/> Fishing	<input type="checkbox"/> Other
<input 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
9. LOCATION DETAIL

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

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

DETERMINAND	ARBITRARY CODE	AQC FLAGE	VALUE
TURBIDITY, JTU/NTU	0 2 1 0 1 N 5 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 8 6 0		
HARDNESS as CaCO ₃ mg/L	3 7 0 0 1 N 2 4 0		
TOTAL COLIFORM, MPN/100ml	3 3 3 3 3 N 1 5 4 0		
FECAL COLIFORM, MPN/100ml	4 4 4 4 4 N 1 2 2 0		
TOTAL DISSOLVED SOLIDS, mg/L			
FIXED DISSOLVED SOLIDS, mg/L			
AMMONIA NITROGEN, mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N 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			
Fluoride, mg/L			

Roy
CHEMIST

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SCIENTIST

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CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

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

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **2 2 0 3 1 9** **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 Light Moderate 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
 COLLECTED BY: R. R. Vaishnav (Chemist)
 VERIFIED BY: Dr. Anita Yadav (Scientist)
 AGENCY: R. O. C. E. C. B. Bhaspur

DETERMINAND	WHQ CODE	AQC FLAGE	VALUE
TEMPERATURE, °C	0 2 0 0	1 N 3	3 3 0
pH	1 0 3 0	2 N 7	9 9 0
CONDUCTIVITY, μmhos/cm	0 2 0 4	1 N 2	5 7 0
ALKALINITY, mg/L	1 0 1 0	1 N	
(1) ELECTROMETRIC			
(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 4	1 1 0
DISSOLVED OXYGEN, mg/L	0 8 2 0	1 N 2	6 4 0
BOD, mg/L	0 8 2 0	1 N 2	6 4 0
COD, mg/L	0 8 3 0	1 N 3	8 0 0
CHLORIDE, mg/L			
(1) ARGENTOMETRIC	1 7 2 0	1 N 4	8 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	4 0 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 2
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	1 0 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 5	6 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	0 7 0 0	1 N	
(i) TITRATION	0 7 0 0	4 N	
(ii) NITROGENIZATION	2 2 1 0	1 N 9	0 0 0
HARDNESS as CaCO ₃ mg/L	3 7 0 0	1 N 9	0 0 0
TOTAL COLIFORM, MPN/100ml			
FECAL COLIFORM, MPN/100ml			
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	3 N 1 5	0 0 0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	4 N 1 3	0 0 0
AMMONIA NITROGEN, mg/L			
(i) COLORIMETRY	0 7 5 5	5 N 2	4 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			

CHEMIST

SCIENTIST

CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: **1 1 9 0 0**

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

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

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

5. COLOUR & INTENSITY: **Clear** **Furhid** **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:

<input checked="" type="checkbox"/> Cattle Wading	<input type="checkbox"/> Melon Farming	<input type="checkbox"/> Fishing	<input type="checkbox"/> Other
<input 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 Char.	<input type="checkbox"/> Abstraction For Water Supply

STATION: **River Mohanadi at Kharod**

TYPE: **RIVER**

COMPLETED BY: **R. R. Vastrav (Chemist)**

VERIFIED BY: **Dr. Antra Yadav (Scientist)**

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

9. LOCATION DETAIL

DETERMINAND WHO CODE AQC FLAGE VALUE

DETERMINAND ARBITRARY CODE AQC FLAGE VALUE

TEMPERATURE, °C	0	2	0	0	1	N	3	1	0
pH	1	0	3	0	2	N	8	0	
CONDUCTIVITY, umhos/cm	0	2	0	4	1	N	1	9	2
ALKALINITY, mg/L									
(1) ELECTROMETRIC	1	0	1	0	1	N	1	2	8
(2) VISUAL TITRATION	1	0	1	0	5	N	2	3	0
NITROGEN(NH ₃ + NO ₂), mg/L	0	7	1	0	1	N	7	9	
DISSOLVED OXYGEN, mg/L	0	8	2	0	1	N	1	6	
BOD, mg/L	0	8	3	0	1	N	1	6	0
CHLORIDE, mg/L									
(1) ARGENTOMETRIC	1	7	2	0	1	N	1	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	2	5	0
SODIUM, mg/L	1	1	1	0	3	N			
CALCIUM as CaCO ₃ , mg/L	2	0	1	0	1	N	1	7	6
MAGNESIUM as CaCO ₃ , mg/L	1	2	1	0	3	N	4	8	7
FECAL COLIFORM MPN/100mg/L	3	6	0	1	1	N			
INSTANTANEOUS DISCHARGE m ³ /s	9	7	1	6	7	N			

TURBIDITY, JTU/NTU	0	2	1	0	1	N	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	0	7	0	0	1	N			
(i) TITRATION	0	7	0	0	4	N			
(ii) NITROGENIZATION	2	2	1	0	1	N	6	4	0
HARDNESS as CaCO ₃ mg/L	3	7	0	0	1	N	3	4	
TOTAL COLIFORM, MPN/100ml									
FECAL COLIFORM, MPN/100ml	3	3	3	3	3	N	1	1	9
TOTAL DISSOLVED SOLIDS, mg/L	4	4	4	4	4	N	1	0	6
FIXED DISSOLVED SOLIDS, mg/L									
AMMONIA NITROGEN, mg/L	0	7	5	5	5	N	1	5	
(i) COLORIMETRY	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									
NITRATE, mg/L									
Fluoride, Mg/L									

R. R. Vastrav
CHEMIST

A. Yadav
SCIENTIST

R. R. Vastrav
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: **1106**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **09/03/19** **1100**

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 Major 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 Chhatra**

TYPE: **RIVER**

COMPLETED BY: **R. R. Vaishnav (Chemist)**

VERIFIED BY: **Dr. Anis Yeddy (Scientist)**

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

DETERMINAND	WHO	CODE	AOQ	FLAGE	VALUE
TEMPERATURE, °C		02	0	1	N
PH		10	3	0	2
CONDUCTIVITY, μmhos/cm		02	0	4	1
ALKALINITY, mg/L		02	0	4	1
(1) ELECTROMETRIC		10	1	0	1
(2) VISUAL TITRATION		10	1	0	2
NITROGEN(NO ₃ + NO ₂), mg/L		07	1	0	5
DISSOLVED OXYGEN, mg/L		08	1	0	1
BOD, mg/L		08	2	0	1
COD, mg/L		08	3	0	1
CHLORIDE, mg/L		07	2	0	1
(1) ARGENTOMETRIC		17	2	0	1
(2) MERCURIMETRIC		17	2	0	1
SULPHATE, mg/L		17	2	0	1
(1) GRAVIMETRIC		16	3	0	1
(2) TURBIDIMETRIC		16	3	0	2
SODIUM, mg/L		11	1	0	3
CALCIUM as CaCO ₃ , mg/L		20	1	0	1
MAGNESIUM as CaCO ₃ , mg/L		12	1	0	3
FECAL COLIFORM MPN/100ml		35	0	1	1
INSTANTANEOUS DISCHARGE, m ³ /s		97	1	1	6

R. R. Vaishnav
CHEMIST

Dr. Anis Yeddy
SCIENTIST

DETERMINAND	ARBITRARY	CODE	AOQ	FLAGE	VALUE
TURBIDITY, ITU/NTU		02	1	0	1
VELOCITY OF FLOW, m/sec		02	2	0	1
(I) CURRENT METER		02	2	0	1
(II) FLOAT		02	2	0	2
(III) CHEMICAL		02	2	0	3
TOTAL KJELDAHL NITROGEN, mg/L		07	0	0	1
(I) TITRATION		07	0	0	4
(II) NITROGENIZATION		07	0	0	4
HARDNESS as CaCO ₃ mg/L		22	1	0	1
TOTAL COLIFORM, MPN/100ml		37	0	0	1
FECAL COLIFORM, MPN/100ml		37	0	0	1
TOTAL DISSOLVED SOLIDS, mg/L		33	3	3	3
FIXED DISSOLVED SOLIDS, mg/L		44	4	4	4
AMMONIA NITROGEN, mg/L		07	5	5	5
(I) COLOUPIMETRY		07	5	5	5
(II) DISTILLATION TITRATION		07	5	5	1
BORON DISSOLVED, mg/L		05	1	0	5
PHOSPHATE, mg/L		05	1	0	5
NITRATE, mg/L					2
Fluoride, mg/L					0

R. R. Vaishnav
CH. CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 24 01 19 01 50 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
TYPE : NEAR DURG DHAMDHA ROAD BRIDGE.

6. ODOUR None Fishy H₂S Other
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other
8. HUMAN ACTIVITIES AROUND STATION Cattle Wading Melon Farming Fising Other
COMPLETED BY : SHIV PATEL
VERIFIED BY : N.C.MALVIYA

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

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	AQCFLAG	VALUE
TEMPERATURE, °C	02 0 0 1 N		22.00	TURBIDITY, JT/NTU	02 1 0 1 N	
pH	10 3 0 2 N		7.52	VELOCITY OF FLOW, m/sec		
CONDUCTIVITY, µhos/cm	02 0 4 1 N			(i) CURRENT METER	02 2 0 1 N	
ALKALINITY, mg/L				(ii) FLOATE	02 2 0 2 N	
(1) ELECTOMETRIC	10 1 0 1 N			(iii) CHEMICAL	02 2 0 3 N	
(2) VISUAL TITRATION	10 1 0 2 N		124.00	TOTAL KJELDAHL NITROGEN, mg/L		
NITROGEN (NO ₃ +NO ₂), mg/L	07 1 0 5 N			(i) TITRATION	07 0 0 1 N	
DISSOLVED OXYGEN, mg/L	08 1 0 1 N		7.0	(ii) NESSELERIZATION	07 0 0 4 N	
BOD, mg/l	08 2 0 1 N			HARDNESS as CaCO ₃ , mg/L	22 1 0 1 N	108.00
COD, mg/L	08 3 0 1 N		38.08	TOTAL COLIFORM, MPN/100ml	37 0 0 1 N	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	33 3 3 3 N	290.00
(1) ARGENTOMETRIC	17 2 0 1 N		46.00	FIXED DISSOLVED SOLIDS, mg/L	44 4 4 4 N	
(2) MERCURIMETRIC	17 2 0 1 N			AMMONIAM NITROGEN, mg/L		
SULPHATE, mg/L				(i) COLOURIMETRY	07 5 5 5 N	
(1) GRAVIMETRIC	16 3 0 1 N			(ii) DISTILLATION TITRATION	07 5 5 1 N	
(2) TURBIDIMETRIC	16 3 0 2 N			BORON DISSOLVED, mg/L	05 1 0 5 N	
SODIUM, mg/L	11 1 0 3 N			PHOSPHATE, mg/L		
CALCIUM as CaCO ₃ , mg/L	20 1 0 1 N		46.0	NITRITE, mg/L		
MAGENESIUM as CaCO ₃ , mg/L	12 1 0 3 N		62.00	SUSPENDED SOLID mg/L		70.00
FECAL COLIFORM MPN/100ml	31 6 0 1 1 N					
INSTANTANEOUS DISCHARGE, m ³	97 1 6 7 1 N					

[Handwritten 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): 2 8 1 2 1 8 0 4 5 5 P M

3. WEATHER: Cloudy Windy Clear Raining

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

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

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other

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

9. LOCATION DETAIL: U/s of Town or Industrial Area Pilgrim Center/ Bath Gath Abstraction For 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 CODE	AQCF	FLAG	VALUE	DETERMINAND	WHO CODE	AQCF	FLAG	VALUE
TEMPERATURE, °C	0 2 0 0 1 N			2 1 0 0	TURBIDITY, JTU/NTU	0 2 1 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 1 N			
ALKALINITY, mg/L					(ii) FLOATE	0 2 2 2 N			
(1) ELECTOMETRIC	1 0 1 0 1 N				(iii) CHEMICAL	0 2 2 3 N			
(2) VISUAL TITRATION	1 0 1 0 2 N			1 2 6 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 1 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N			6 7	(ii) NITROGEN	0 7 0 4 N			
BOD, mg/l	0 8 2 0 1 N				HARDNESS as CaCO ₃ , mg/L	2 2 1 1 N			1 3 2 0 0
COD, mg/L	0 8 3 0 1 N			1 2 7 4	TOTAL COLIFORM, MPN/100ml	3 7 0 1 N			
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 N			3 3 0 0 0
(1) ARGENTOMETRIC	1 7 2 0 1 N				FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 N			
(2) MERCURIMETRIC	1 7 2 0 1 N				AMMONIUM NITROGEN, mg/L				
SULPHATE, mg/L					(i) COLOURIMETRY	0 7 5 5 N			
(1) GRAVIMETRIC	1 6 3 0 1 N				(ii) DISTILLATION TITRATION	0 7 5 1 N			
(2) TURBIDIMETRIC	1 6 3 0 2 N				BORON DISSOLVED, mg/L	0 5 1 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 6 0 0	NITRITE mg/L				
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N			1 1 2 1	SUSPENDED SOLI mg/L				8 0 0 0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N								
INSTANTANEOUS DISCHARGE, m	1 9 7 1 6 7 N								


 Date: _____

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 4 0 1 1 9 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 : 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	0 2 0	N
pH	1 0 3 0	2 N		
CONDUCTIVITY, µghos/cm	0 2 0 4	1 N	0 2 0	N
ALKALINITY, mg/L			0 2 0	N
(1)ELECTOMETRIC	1 0 1 0	1 N	0 2 0	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	0 7 0	N
BOD, mg/l	0 8 2 0	1 N	0 7 0	N
COD, mg/L	0 8 3 0	1 N	2 2 0	N
CHLORIDE, mg/L			3 7 0	N
(1)ARGENTOMETRIC	1 7 2 0	1 N	3 3 3	N
(2)MERCURIMETRIC	1 7 2 0	1 N	4 4 4	N
SULPHATE, mg/L				
(1)GRAVIMETRIC	1 6 3 0	1 N	0 7 5	N
(2)TURBIDIMETRIC	1 6 3 0	2 N	0 7 5	N
SODIUM, mg/L	1 1 1 0	3 N	0 5 0	N
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N		
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N		
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N	5 0 0	0 0
INSTANTANEOUS DISCHARGE, m	9 7 1 6	7 N		

Shiv 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): **2 4 1 1 1 9 1 2 : 2 0 P M**
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN 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
 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		DETERMINAND		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	0 2 0 0 1 1 N		TURBIDITY, JTU/NTU		0 2 1 0 1 N	
pH	1 0 3 0 2 N	2 1 0	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N	7 6 2	(i)CURRENT METER		0 2 2 0 1 N	
ALKALINITY, mg/L			(ii)FLOATE		0 2 2 0 2 N	
(1)ELECTROMETRIC	1 0 1 0 1 N		(iii)CHEMICAL		0 2 2 0 3 N	
(2)VISUAL TITRATION	1 0 1 0 2 N	1 3 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 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 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		4 2 0 0	FIXED DISSOLVED SOLIDS, mg/L		3 3 3 3 N	2 7 0 0 0
(1)ARGENTOMETRIC	1 7 2 0 1 N		AMMONIUM NITROGEN, mg/L		4 4 4 4 N	
(2)MERCURIMETRIC	1 7 2 0 1 N		(i)COLOURIMETRY		0 7 5 5 N	
SULPHATE, mg/L			(ii)DISTILLATION TITRATION		0 7 5 5 1 N	
(1)GRAVIMETRIC	1 6 3 0 1 N		BORON DISSOLVED, mg/L		0 5 1 0 5 N	
(2)TURBIDIMETRIC	1 6 3 0 2 N		PHOSPHATE, mg/L			
SODIUM, mg/L	1 1 1 0 3 N		NITRITE mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 1 6	SUSPENDED SOLID, mg/L			6 0 0
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 5 6 0				
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N					
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N					

Shiv Patel
 Date: _____
 Signature: 

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
[MINDAT/GLOWDAT

1. STATION CODE 1 8 4 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) 2 4 0 1 1 9 0 4 5 5 P M

3. WEATHER
 Cloudy Windy Clear Raining

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

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

6. ODOUR
 None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT None Fishery Other

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

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

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

DETERMINAND	WHO CODE	AQCFLAG	VALUE	ARBITRARY	
				CODE	AQCFLAG VALUE
TEMPERATURE, °C	0 2 0	0 1 N	2 0	0	
pH	1 0 3	0 2 N	7	5	
CONDUCTIVITY, µghos/cm	0 2 0	4 1 N			
ALKALINITY, mg/L					
(1)ELECTOMETRIC	1 0 1	0 1 N			
(2)VISUAL TITRATION	1 0 1	0 2 N	1 3 8	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	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	3 8	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			
SODIUM, mg/L	1 1 1	0 3 N			
CALCIUM as CaCO ₃ , mg/L	2 0 1	0 1 N	2 0	8	
MAGENESIUM 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			
INSTANTANEOUS DISCHARGE, m	9 7 1	6 7 N			
TURBIDITY JTU/NTU	0 2 1	1 1 N			
VELOCITY OF FLOW, m/sec					
(i)CURRENT METER	0 2 2	1 1 N			
(ii)FLOATE	0 2 2	2 1 N			
(iii)CHEMICAL	0 2 2	3 1 N			
TOTAL KJELDAHL NITROGEN, mg/L					
(i)TITRATION	0 7 0	1 1 N			
(ii)NESSELERIZATION	0 7 0	4 1 N			
HARDNESS as CaCO ₃ , mg/L	2 2 1	1 1 N			1 2 0 0 0
TOTAL COLIFORM, MPN/100ml	3 7 0	1 1 N			
TOTAL DISSOLVED SOLIDS, mg/L	3 3 3	3 1 N			2 9 0 0 0
FIXED DISSOLVED SOLIDS, mg/L	4 4 4	4 1 N			
AMMONIAM NITROGEN, mg/L					
(i)COLOURIMETRY	0 7 5	5 1 N			
(ii)DISTILLATION TITRATION	0 7 5	1 1 N			
BORON DISSOLVED, mg/L	0 5 1	5 1 N			
PHOSPHATE, mg/L					
NITRITE, mg/L					6 0 0 0
SUSPENDED SOLID,mg/L					

[Signature]
[Signature]

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1 8 4 7

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 4 0 1 1 9 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 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 : 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		2 0	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				(i)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	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	(i)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
COD, mg/L	0 8 3 0 1 N		2 9 4	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N		2 9 0
(1)ARGENTOMETRIC	1 7 2 0 1 N		3 8	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			(i)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		1 7 0 7	SUSPENDED SOLID, mg/L			5 0 0 0
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE, m ³	9 7 1 6 7 N						


 Shiv Patel

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
[MINDAT/GLOWDAT

1. STATION CODE: 3 1 6 7
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 3 0 0 1 1 9 0 5 : 1 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 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 : SHIV PATEL
 VERIFIED BY : N.C.MALVIYA
 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 1 N	TURBIDITY, JTU/NTU	0 2 1 1	N	
pH	1 0 3 0	2 1 N	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY, µhos/cm	0 2 0 4	1 N	(i) CURRENT METER	0 2 2 1	N	
ALKALINITY, mg/L			(ii) FLOATE	0 2 2 2	N	
(1) ELECTOMETRIC	1 0 1 0	1 N	(iii) CHEMICAL	0 2 2 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 1	N	
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	(ii) NESSELERIZATION	0 7 0 4	N	
BOD, mg/l	0 8 2 0	1 N	HARDNESS as CaCO ₃ , mg/L	2 2 1 1	N	1 1 2 0 0
COD, mg/L	0 8 3 0	1 N	TOTAL COLIFORM, MPN/100ml	3 7 0 1	N	
CHLORIDE, mg/L			TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3	N	2 2 0 0 0
(1) ARGENTOMETRIC	1 7 2 0	1 N	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4	N	
(2) MERCURIMETRIC	1 7 2 0	1 N	AMMONIUM NITROGEN, mg/L			
SULPHATE, mg/L			(i) COLOURIMETRY	0 7 5 5	N	
(1) GRAVIMETRIC	1 6 3 0	1 N	(ii) DISTILLATION TITRATION	0 7 5 1	N	
(2) TURBIDIMETRIC	1 6 3 0	2 N	BORON DISSOLVED, mg/L	0 5 1 5	N	
SODIUM, mg/L	1 1 1 0	3 N	PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0	1 N	NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	SUSPENDED SOLI mg/L			5 0 0 0 0
FECAL COLIFORM MPN/100ml	3 6 0 1	1 N				
INSTANTANEOUS DISCHARGE, m	1 9 7 1	6 7 N				

Shiv Patel
 Date

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): 3 0 0 1 1 9 0 4 2 0 P M
 3. WEATHER: Cloudy Windy Clear Raining
 4. APPROX DEPTH OF MAIN STREAM: <50cm. 50-100cm. >100cm. Flood
 5. COLOUR & INTENSITY: Clear Turbid Green Brown 1=light 2=Moderate 3=High
 6. ODOUR: None Fishy H₂S Other
 7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other
 8. HUMAN ACTIVITIES AROUND STATION: Cattle Wading Melon Farming Fising Other
 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 : N.C.MALVIYA
AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	DETERMINAND	WHO CODE	AQCF	FLAG	VALUE	ARBITRARY CODE	AQCF	FLAG	VALUE
TEMPERATURE, °C	0 2	0	1 N	2 1	0	0 2	1	0 N					
pH	1 0	3	0 2 N	7	4								
CONDUCTIVITY, µghos/cm	0 2	0	4 1 N										
ALKALINITY, mg/L													
(1)ELECTOMETRIC	1 0	1	0 1 N										
(2)VISUAL TITRATION	1 0	1	0 2 N	9	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	1	9								
CHLORIDE, mg/L				2	8								
(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	9								
MAGENESIUM as CaCO ₃ , mg/L	1 2	1	0 3 N	1	6								
FECAL COLIFORM MPN/100ml	3 6	0	1 1 N										
INSTANTANEOUS DISCHARGE, m ³	9 7	1	6 7 N										

Shiv Patel

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 2 1 9 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 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
 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		0 2 1 1 N	
PH	1 0 3 0 2 N	7		
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		0 2 2 1 N	
ALKALINITY, mg/L			0 2 2 2 N	
(1) ELECTOMETRIC	1 0 1 0 1 N		0 2 2 3 N	
(2) VISUAL TITRATION	1 0 1 0 2 N	1 2 6		
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N			
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N	6		
BOD, mg/l	0 8 2 0 1 N			
COD, mg/L	0 8 3 0 1 N	1 2 7		
CHLORIDE, mg/L				
(1) ARGENTOMETRIC	1 7 2 0 1 N	8 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	3 4		
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 1		
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N			
INSTANTANEOUS DISCHARGE, m	9 7 1 6 7 N			
TURBIDITY, JT/UNTU				
VELOCITY OF FLOW, m/sec				
(i) CURRENT METER				
(ii) FLOATE				
(iii) CHEMICAL				
TOTAL KJELDAHL NITROGEN, mg/L				
(i) TITRATION				
(ii) NITROSELEAZATION				
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				

Fateh


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): **1 4 0 2 1 8 0 4 : 1 0 P M**

3. WEATHER: Clody Windy Clear Raining

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

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

6. ODOUR None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY None Fishery Other

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

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

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

COMPLETED BY: **SHIV PATEL**

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

DETERMINAND	WHO		ARBITRARY		VALUE
	CODE	AQCFLAG	CODE	AQCFLAG	
TEMPERATURE, °C	0 2 0 1 N		0 2 1 1 N		23.00
pH	1 0 3 0 2 N				7.2
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N		0 2 2 1 N		
ALKALINITY, mg/L			0 2 2 2 N		
(1) ELECTOMETRIC	1 1 0 1 0 1 N		0 2 2 3 N		
(2) VISUAL TITRATION	1 0 1 0 2 N				176.00
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				171.36
CHLORIDE, mg/L					72.00
(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				34.40
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N				11.21
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					132.00
TOTAL COLIFORM, MPN/100ml					
TOTAL DISSOLVED SOLIDS, mg/L					320.00
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					70.00

(Handwritten signatures)

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
[MINDAT/GLOWDAT

1. STATION CODE **31167**
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YYYY) **20/02/19 05:10 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 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		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	021001N	27.0	0211N	
pH	10302N	7.4		
CONDUCTIVITY, µghos/cm	02041N		0221N	
ALKALINITY, mg/L			0222N	
(1)ELECTOMETRIC	10101N		0223N	
(2)VISUAL TITRATION	10102N	110.0		
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			
DISSOLVED OXYGEN, mg/L	08101N	6.8	0701N	
BOD, mg/l	08201N		0704N	
COD, mg/L	08301N	28.5	2211N	112.0
CHLORIDE, mg/L			3701N	
(1)ARGENTOMETRIC	17201N	28.0	3333N	210.0
(2)MERCURIMETRIC	17201N		4444N	
SULPHATE, mg/L				
(1)GRAVIMETRIC	16301N		0755N	
(2)TURBIDIMETRIC	16302N		0751N	
SODIUM, mg/L	11103N		0515N	
CALCIUM as CaCO ₃ , mg/L	20101N	20.0		
MAGNESIUM as CaCO ₃ , mg/L	12103N	7.8		
FECAL COLIFORM MPN/100ml	36011N			40.0
INSTANTANEOUS DISCHARGE, m ³	97167N			




MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS GEMS
BENDAY GLOWDAT

1. STATION CODE **1845**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) **20/02/19 11:40 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 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 DURG
 TYPE : NEAR W/S INTAKE WELL POINT
 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	0200	1N		
pH	1030	2N		
CONDUCTIVITY, µhos/cm	0204	1N		
ALKALINITY, mg/L				
(1)ELECTOMETRIC	1010	1N		
(2)VISUAL TITRATION	1010	2N		
NITROGEN(NO ₃ +NO ₂), mg/L	0710	5N		
DISSOLVED OXYGEN, mg/L	0810	1N		
BOD, mg/l	0820	1N		
COD, mg/L	0830	1N		
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		
MAGNESIUM as CaCO ₃ , mg/L	1210	3N		
FECAL COLIFORM MPN/100ml	3601	1N		
INSTANTANEOUS DISCHARGE, m ³	9716	7N		
TURBIDITY, JT/UNTU	02	0	1N	
VELOCITY OF FLOW, m/sec				
(i)CURRENT METER	02	0	1N	
(ii)FLOATE	02	0	2N	
(iii)CHEMICAL	02	0	3N	
TOTAL KJELDAHL NITROGEN, mg/L				
(i)TITRATION	07	0	1N	
(ii)NESSELERIZATION	07	0	4N	
HARDNESS as CaCO ₃ , mg/L	22	0	1N	78.00
TOTAL COLIFORM, MPN/100ml	37	0	1N	
TOTAL DISSOLVED SOLIDS, mg/L	33	3	3N	210.00
FIXED DISSOLVED SOLIDS, mg/L	44	4	4N	
AMMONIAM NITROGEN, mg/L				
(i)COLOURIMETRY	07	5	5N	
(ii)DISTILLATION TITRATION	07	5	1N	
BORON DISSOLVED, mg/L	05	0	5N	
PHOSPHATE, mg/L				
NITRITE mg/L				
SUSPENDED SOLID, mg/L				40.00

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): **140219 11:10 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: RIVER SHEONATH AT JHENJHARI 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		AQFLAG		VALUE		DETERMINAND	ARBITRARY		AQFLAG		VALUE	
	CODE	CODE	CODE	CODE	CODE	CODE		CODE	CODE	CODE	CODE	CODE	CODE
TEMPERATURE, °C	02	00	1N		23	00	TURBIDITY, JTU/NTU	02	10	N			
pH	10	30	2N		7.8		VELOCITY OF FLOW, m/sec						
CONDUCTIVITY, µghos/cm	02	04	1N				(i) CURRENT METER	02	20	N			
ALKALINITY, mg/L							(ii) FLOATE	02	20	N			
(1) ELECTROMETRIC	10	10	1N				(iii) CHEMICAL	02	20	N			
(2) VISUAL TITRATION	10	10	2N		134	00	TOTAL KJELDAHL NITROGEN, mg/L						
NITROGEN (NO ₃ +NO ₂), mg/L	07	10	5N				(i) TITRATION	07	00	N			
DISSOLVED OXYGEN, mg/L	08	10	1N		5.6		(ii) NESSELERIZATION	07	00	N			
BOD, mg/l	08	20	1N				HARDNESS as CaCO ₃ , mg/L	22	10	N		118	
COD, mg/L	08	30	1N		57	12	TOTAL COLIFORM: MPN/100ml	37	00	N			
CHLORIDE, mg/L					62	00	TOTAL DISSOLVED SOLIDS, mg/L	33	33	N		280	
(1) ARGENTOMETRIC	17	20	1N				FIXED DISSOLVED SOLIDS, mg/L	44	44	N			
(2) MERCURIMETRIC	17	20	1N				AMMONIUM NITROGEN, mg/L						
SULPHATE, mg/L							(i) COLOURIMETRY	07	55	N			
(1) GRAVIMETRIC	16	30	1N				(ii) DISTILLATION TITRATION	07	55	N			
(2) TURBIDIMETRIC	16	30	2N				BORON DISSOLVED, mg/L						
SODIUM, mg/L	11	10	3N				PHOSPHATE, mg/L						
CALCIUM as CaCO ₃ , mg/L	20	10	1N		21	60	NITRITE, mg/L						
MAGENESIUM as CaCO ₃ , mg/L	12	10	3N		15	60	SUSPENDED SOLID, mg/L					80	
FECAL COLIFORM MPN/100ml	36	01	1N										
INSTANTANEOUS DISCHARGE, m	97	16	7N										

Shiv Patel

N.C. Malviya

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MINDAT/GLOWDAT

1. STATION CODE: 1107
 2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 200219 04:10 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 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: N.C.MALVIYA

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

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	02001N		0210N	
pH	10302N	27.0		
CONDUCTIVITY, µhos/cm	02041N	7.4		
ALKALINITY, mg/L				
(1)ELECTOMETRIC	10101N			
(2)VISUAL TITRATION	10102N	98.0		
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			
DISSOLVED OXYGEN, mg/L	08101N	7.0		
BOD, mg/l	08201N			
COD, mg/L	08301N	19.0		
CHLORIDE, mg/L		24.0		
(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		
MAGENESIUM as CaCO ₃ , mg/L	12103N	7.8		
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				
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

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 1 0 2 1 9 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 Melon Farming Fishery Other

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

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

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

DETERMINAND	WHO		D/S of Town of Industrial Area		TOWN OF INDUSTRIAL AREA		GATH		ABSTRACTION FOR WATER SUPPLY		ARBITRARY	
	CODE	AQCFLAG	VALUE	U/s of Industrial Area	D/s of Town of Industrial Area	Gath	Abstraction For Water Supply	CODE	AQCFLAG	VALUE		
TEMPERATURE, °C	0 2 0 0 1 N		27.0						0 2 1 1 N			
pH	1 0 3 0 2 N		7.4									
CONDUCTIVITY, µhos/cm	0 2 0 4 1 N								0 2 2 1 N			
ALKALINITY, mg/L									0 2 2 2 N			
(1)ELECTROMETRIC	1 0 1 0 1 N								0 2 2 3 N			
(2)VISUAL TITRATION	1 0 1 0 2 N		1 1 2									
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0 5 N											
DISSOLVED OXYGEN, mg/L	0 8 1 0 1 N		6.8									
BOD, mg/l	0 8 2 0 1 N								2 2 1 1 N	9.8	0 0	
COD, mg/L	0 8 3 0 1 N		3 8	0 8					3 7 0 1 N			
CHLORIDE, mg/L												
(1)ARGENTOMETRIC	1 7 2 0 1 N		3 2	0 0					3 3 3 3 N	2 2 0	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								0 7 5 5 N			
(2)TURBIDIMETRIC	1 6 3 0 2 N								0 7 5 1 N			
SODIUM, mg/L	1 1 1 0 3 N								0 5 1 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		9	7 5								
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N										5 0 0 0	
INSTANTANEOUS DISCHARGE, m	9 7 1 6 7 N											

[Signature]

[Signature]

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
MIN DAT/GLOW DAT

1. STATION CODE **3163**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY) **08.02.19 01:10 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
 None Fishy H₂S Other

6. ODOUR None Fishy 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, RESERVOIR**

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	02001N		0211N		TURBIDITY, JTU/NTU	0211N	
pH	10302N	7.2			VELOCITY OF FLOW, m/sec		
CONDUCTIVITY, µghos/cm	02041N				(i) CURRENT METER	0221N	
ALKALINITY, mg/L					(ii) FLOATE	0222N	
(1) ELECTOMETRIC	10101N				(iii) CHEMICAL	0223N	
(2) VISUAL TITRATION	10102N	126	00		TOTAL KJELDAHL NITROGEN, mg/L		
NITROGEN (NO ₃ +NO ₂), mg/L	07105N				(i) TITRATION	0701N	
DISSOLVED OXYGEN, mg/L	08101N	6	80		(ii) NESSELERIZATION	0704N	
BOD, mg/l	08201N				HARDNESS as CaCO ₃ , mg/L	2211N	96
COD, mg/L	08301N	123	76		TOTAL COLIFORM, MPN/100ml	3701N	
CHLORIDE, mg/L					TOTAL DISSOLVED SOLIDS, mg/L	3333N	380
(1) ARGENTOMETRIC	17201N				FIXED DISSOLVED SOLIDS, mg/L	4444N	
(2) MERCURIMETRIC	17201N	58	00		AMMONIAM NITROGEN, mg/L		
SULPHATE, mg/L					(i) COLOURIMETRY	0755N	
(1) GRAVIMETRIC	16301N				(ii) DISTILLATION TITRATION	0751N	
(2) TURBIDIMETRIC	16302N				BORON DISSOLVED, mg/L	0515N	
SODIUM, mg/L	11103N				PHOSPHATE, mg/L		
CALCIUM as CaCO ₃ , mg/L	20101N	24	0		NITRITE mg/L		
MAGNESIUM as CaCO ₃ , mg/L	12103N	8	78		SUSPENDED SOLI mg/L		110
FECAL COLIFORM MPN/100ml	36011N						
INSTANTANEOUS DISCHARGE, m	97167N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

MINDAT/GLOWDAT

1. STATION CODE: **1847**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **11/02/19 04:10 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 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: **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	02001N		27.00	TURBIDITY, JT/UNTU	02101N		
pH	10302N		7.5	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		108.00	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			(i)TITRATION	07001N		
DISSOLVED OXYGEN, mg/L	08101N		6.8	(ii)NESSELERIZATION	07004N		
BOD, mg/l	08201N			HARDNESS as CaCO ₃ , mg/L	22101N		98.00
COD, mg/L	08301N		28.56	TOTAL COLIFORM, MPN/100ml	37001N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	33333N		210.00
(1)ARGENTOMETRIC	17201N		28.00	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		23.2	NITRITE mg/L			
MAGNESIUM as CaCO ₃ , mg/L	12103N		9.75	SUSPENDED SOLID, mg/L			60.00
FECAL COLIFORM MPN/100ml	36011N						
INSTANTANEOUS DISCHARGE, m ³	97167N						

Shiv Patel

Shiv Patel

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE: **31614**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **19/03/19 03:15 P.M.**

3. WEATHER: Clody Windy Clear Raining

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

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

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

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

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

TYPE: **AF TALAB WATER**

DETERMINAND	WHO		ARBITRARY		VALUE
	CODE	AQCFLAG	CODE	AQCFLAG	
TEMPERATURE, °C	020	01N	021	11N	
pH	103	02N			7.62
CONDUCTIVITY, µghos/cm	020	41N	022	11N	
ALKALINITY, mg/L			022	22N	
(1)ELECTOMETRIC	101	01N	022	33N	
(2)VISUAL TITRATION	101	02N			0.0
NITROGEN(NO ₃ +NO ₂), mg/L	071	05N			
DISSOLVED OXYGEN, mg/L	081	01N			7.0
BOD, mg/l	082	01N			
COD, mg/L	083	01N			16.6
CHLORIDE, mg/L					7.4
(1)ARGENTOMETRIC	172	01N			
(2)MERCURIMETRIC	172	01N			
SULPHATE, mg/L					
(1)GRAVIMETRIC	163	01N			
(2)TURBIDIMETRIC	163	02N			
SODIUM, mg/L	111	03N			
CALCIUM as CaCO ₃ , mg/L	201	01N			3.4
MAGENESIUM as CaCO ₃ , mg/L	121	03N			4.6
FECAL COLIFORM MPN/100ml	360	11N			0.0
INSTANTANEOUS DISCHARGE, m	971	167N			

SHIV PATEL

19/03/19

SHIV 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 8 0 3 1 9 1 1 : 2 0 A M

3. WEATHER: Cloudy Windy Clear Raining

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

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

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN FROXIMIT: None Fishery Other

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

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

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

DETERMINAND	WHO CODE	AQCFLAG	VALUE	DETERMINAND	AQCFLAG	VALUE	ARBITRARY	
							CODE	VALUE
TEMPERATURE, °C	0 2 0 0	1 N		TURBIDITY, JT/NTU	0 2 0	1 N		
pH	1 0 3 0	2 N	7.48	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	5.2	TOTAL KJELDAHL NITROGEN, mg/L				
NITROGEN(NO ₃ +NO ₂), mg/L	0 7 1 0	5 N		(i)TITRATION	0 7 0	1 N		
DISSOLVED OXYGEN, mg/L	0 8 1 0	1 N	7.2	(ii)NESSELERIZATION	0 7 0	4 N		
BOD, mg/l	0 8 2 0	1 N		HARDNESS as CaCO ₃ , mg/L	2 2 0	1 N	1 1 8	0 0
COD, mg/L	0 8 3 0	1 N	19.36	TOTAL COLIFORM, MPN/100ml	3 7 0	1 N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3	3 N	1 9 0	0 0
(1)ARGENTOMETRIC	1 7 2 0	1 N	28	FIXED DISSOLVED SOLIDS, mg/L	4 4 4	4 N		
(2)MERCURIMETRIC	1 7 2 0	1 N		AMMONIAM NITROGEN, mg/L				
SULPHATE, mg/L				(i)COLOURIMETRY	0 7 5	5 N		
(1)GRAVIMETRIC	1 6 3 0	1 N		(ii)DISTILLATION TITRATION	0 7 5	1 N		
(2)TURBIDIMETRIC	1 6 3 0	2 N		BORON DISSOLVED, mg/L	0 5 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	24	NITRITE mg/L				
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0	3 N	13.65	SUSPENDED SOLID, mg/L			4 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 1 6

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 0 0 3 1 9 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 Abstraction For

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

STATION : RIVER KHARON AT DURG
TYPE : AFTERCONFLUENCE OF KHAPRI NALLA
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 1 N		0 2 1 1 N		
pH	1 0 3 0 2 N	2 8 . 0			
CONDUCTIVITY, µghos/cm	0 2 0 4 1 N	7 . 8			
ALKALINITY, mg/L					
(1)ELECTOMETRIC	1 0 1 0 1 N				
(2)VISUAL TITRATION	1 0 1 0 2 N	1 1 2 . 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 . 2			
BOD, mg/l	0 8 2 0 1 N				
COD, mg/L	0 8 3 0 1 N	4 8 . 0 8			
CHLORIDE, mg/L					
(1)ARGENTOMETRIC	1 7 2 0 1 N	4 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				
SODIUM, mg/L	1 1 1 0 3 N				
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	2 4 . 8			
MAGENESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	1 2 . 6 8			
FECAL COLIFORM MPN/100ml	3 6 0 1 1 N				8 0 . 0 0
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					
AMMONIAM NITROGEN, mg/L					
(i)COLOURIMETRY					
(ii)DISTILATION 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: 1847

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 04:10 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 PROXIMITY: None Fishery Other

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

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

STATION: RIVER KHARON 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	02001N			TURBIDITY, JT/UNTU	02101N		
pH	10302N		7.83	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		112	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN (NO ₃ +NO ₂), mg/L	07105N			(i) TITRATION	07001N		
DISSOLVED OXYGEN, mg/L	08101N		6.0	(ii) NESSELERIZATION	07004N		
BOD, mg/l	08201N			HARDNESS as CaCO ₃ , mg/L	22101N		126
COD, mg/L	08301N		48	TOTAL COLIFORM MPN/100ml	37001N		
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	33333N		320
(1) ARGENTOMETRIC	17201N		48	FIXED DISSOLVED SOLIDS, mg/L	44444N		
(2) MERCURIMETRIC	17201N			AMMONIUM 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		27	NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	12103N		14	SUSPENDED SOLID, mg/L			90
FECAL COLIFORM MPN/100ml	36011N						
INSTANTANEOUS DISCHARGE, m	97167N						

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS
[MINDAT/GLOWDAT

1. STATION CODE: **3167**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **01/15/PM**

3. WEATHER: Cloudy Windy Clear Raining

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

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

6. ODOUR: None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY: None Fishery Other

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

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

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

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	02001N	23	0211N	
pH	10302N	7		
CONDUCTIVITY, µghos/cm	02041N		0221N	
ALKALINITY, mg/L			0222N	
(1)ELECTOMETRIC	10101N		0223N	
(2)VISUAL TITRATION	10102N	108		
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			
DISSOLVED OXYGEN, mg/L	08101N	6		
BOD, mg/l	08201N			
COD, mg/L	08301N	29		
CHLORIDE, mg/L				
(1)ARGENTOMETRIC	17201N	32		
(2)MERCURIMETRIC	17201N			
SULPHATE, mg/L	16301N			
(1)GRAVIMETRIC	16302N			
(2)TURBIDIMETRIC	11103N			
SODIUM, mg/L	20101N	20		
CALCIUM as CaCO ₃ , mg/L	12103N	12		
MAGNESIUM as CaCO ₃ , mg/L	36011N			
FECAL COLIFORM/MPN/100ml	97167N			
INSTANTANEOUS DISCHARGE, m				
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 SOLI mg/L				

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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): 18/03/19 02:45 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 : N.C.MALVIYA
 AGENCY : R. O. C. E. C. B. BHILAI

DETERMINAND	WHO		ARBITRARY	
	CODE	AQCFLAG	CODE	AQCFLAG
TEMPERATURE, °C	02001N		0210N	
pH	10302N	29.0		
CONDUCTIVITY, µghos/cm	02041N	7.43		
ALKALINITY, mg/L				
(1)ELECTOMETRIC	10101N			
(2)VISUAL TITRATION	10102N	9.8		
NITROGEN(NO ₃ +NO ₂), mg/L	07105N			
DISSOLVED OXYGEN, mg/L	08101N	7.2		
BOD, mg/l	08201N			
COD, mg/L	08301N	19.36		
CHLORIDE, mg/L		26.00		
(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	2.4		
MAGENESIUM as CaCO ₃ , mg/L	12103N	12.68		
FECAL COLIFORM MPN/100ml	36011N			
INSTANTANEOUS DISCHARGE, m	97167N			
TURBIDITY, JTU/NTU				
VELOCITY OF FLOW, m/sec				
(i)CURRENT METER				
(ii)FLOATE				
(iii)CHEMICAL				
TOTAL KJELDAHL NITROGEN, mg/L				
(i)TITRATION				
(ii)NESSELERIZATION				
HARDNESS as CaCO ₃ , mg/L				
TOTAL COLIFORM, MPN/100ml				
TOTAL DISSOLVED SOLIDS, mg/L				
FIXED DISSOLVED SOLIDS, mg/L				
AMMONIUM NITROGEN, mg/L				
(i)COLOURIMETRY				
(ii)DISTILATION 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: **3163**

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): **01.25 PM**

3. WEATHER: 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, RESERVOIR**

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	020	01N	021	11N	
pH	103	02N			7.43
CONDUCTIVITY, µghos/cm	020	41N			
ALKALINITY, mg/L	101	01N			
(1)ELECTOMETRIC	101	01N			
(2)VISUAL TITRATION	101	02N			128
NITROGEN(NO ₃ +NO ₂), mg/L	071	05N			
DISSOLVED OXYGEN, mg/L	081	01N			6.90
BOD, mg/l	082	01N			127.4
COD, mg/L	083	01N			
CHLORIDE, mg/L	172	01N			
(1)ARGENTOMETRIC	172	01N			56
(2)MERCURIMETRIC	172	01N			00
SULPHATE, mg/L	163	01N			
(1)GRAVIMETRIC	163	01N			
(2)TURBIDIMETRIC	163	02N			
SODIUM, mg/L	111	03N			
CALCIUM as CaCO ₃ , mg/L	201	01N			24
MAGENESIUM as CaCO ₃ , mg/L	121	03N			12
FECAL COLIFORM MPN/100ml	360	11N			
INSTANTANEOUS DISCHARGE, m	197	167N			

SHIV PATEL

OPX

SHIV PATEL

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

Annexure-VI

1. STATION CODE

3 1 6 9

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

2 3 0 1 1 9

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

3. WEATHER

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

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY ODOUR

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

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

8. HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

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

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

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

ARBITRARY

DETERMINAND	CODE	QCFLAG	VALUE	DETERMINAD	CODE	QCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5	5		TURBIDITY JTU/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 1 7	7		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	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	4 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	2		(ii) NESSELERIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0 8 2 0 1 N 0 8	8		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 1 6 0	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 3 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 8 0	0	(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1 6 3 0 1 N			(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N			BORON DISSOLVED mg/L	0 5 1 0 5 N		
SODIUM mg/L	1 1 1 0 3 N			PHOSPHATE mg/L			0 5
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 6 0	0		NITRITE mg/L			
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 4 0 0	0					
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Regional Scientist

Regional Officer

STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS

Annexure-VI

3 1 6 8

0 3 1 5

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

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

WEATHER

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

APPROX DEPTH OF MAIN STREAM

COLOUR & INTENSITY ODOUR

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

VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None	Moderate	High
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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 Chat	Abstraction for Water Supply
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ARBITRARY

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

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 1 5	5	TURBIDITY JTU/TU	0	2 1 0 1 N	
pH	1	0 3 0 2 N 7	2.1	VELOCITY OF FLOW, m/sec			
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N		(i) CURRENT METER	0	2 2 0 1 N	
ALKALINITY mg/L				(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 6	4	(i:) 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				TOTAL DISSOLVED SOLIDS mg/L	3	3 3 3 3 N 2 4 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			0 . 9
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 4 2	0	NITRITE (NO ₂) 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							

Analysed By

Chemist

scientist

Registrar Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS

Annexure-VI

3	1	6	5
2	7	0	1
1	2	0	5

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

Cloudy	Clear	Windy	Rainning
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3. WEATHER

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

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

5. COLOUR & INTENSITY ODOUR

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

U/S of Town of Industrial Area	D/S of Town of Industrial Area
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8. HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

ARBITRARY DETERMINAND CODE AQFLAG VALUE

DETERMINAND	CODE	AQFLAG	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 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 . 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 2 . 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 7 . 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 0 . 0		
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N		
INSTANTANEOUS DISCHARGE M ³ /s			

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

Checked By

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

1. STATION CODE

1 1 0 5

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

0 6 0 1 1 9

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 PROXIMITY

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Motor Farming Fishing

9. LOCATION DETAIL

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

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE	DETERMINAD	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 . 2			TURBIDITY JT/NTU	0 2 1 0 1 N		
pH	1 0 3 0 2 N 7 . 1 8			VELOCITY OF FLOW . m/sec			
CONDUCTIVITY μmhos/cm	0 2 0 4 1 N			(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY mg/L				(ii) FLOT	0 2 2 0 2 N		
(i) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N			TOTAL KJDAHL 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 . 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 8 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				TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 1 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			0 . 6
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 8 . 0						
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N						
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Chemist

Scientist

Registered Officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
3 1 7 0

MINARS / GIEMS

Annexure-VI

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

2 1 0 2 1 9

MINDA T/G L O W D A T

3. WEATHER

Clouds Clear Windy Rainy

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

4. APPROX DEPTH OF MAIN STREAM

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

TYPE- River Water

5. COLOUR & INTENSITY
ODOUR

Clear Turbid Green Brown Light 2 Moderate 3 High

COMPLETED BY- B.P. Mishra

Lab. Asst.-II

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishy TSS Other None Moderate High

VERIFIED BY - M.L.Chandel Chemist

AGENCY - C.G. Environment Conservation
Board, Korba

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

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

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQCLAG	VALUE
TEMPERATURE	0 2 0 0 1 N	2 5 7	
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 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 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 1 9 9	
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L		N 4 0	
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N	3 6 0	
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N	3 4 0	
FECAL COLIFORM MPN/100 ML	3 6 0 1 1 N	1 8	
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 KJLDAH NITROGEN mg/L		N	
(i) TITRATION	0 7 0 0 1 N		
(ii) NITELERIZATION	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	< 1 8	
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	2 4 5 0	
FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
AMMONICAL NITROGEN mg/L			
(i) COLOURIMETRY	0 7 5 5 5 N		
(ii) DISTILLATION TITRATION	0 7 5 5 1 N		
BORON DISSOLVED mg/L	0 5 1 0 5 N		
PHOSPHATE mg/L		0 3	
T-Coli MPN/100 ML		N 1 8	

Analyst

Chemist

Scientist

Inspector

1. STATION CODE:

MONITORING OF INDIAN NATIONAL AQUATIC RESOUR

MINARS / GEMS

Annexure-VI

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

2 1 0 2 1 9

0 3 1 5

3. WEATHER

← Cloudy → Clear → Windy → Rainy
 ← 50 cm → 50-100 cm → 100 cm → Flood

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY
ODOUR

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

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Moderate High
 Cattle Wading Abalone Farming Fishing

8. HUMAN ACTIVITIES AROUND STATION

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

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- M.L. Chandel Chemist

AGENCY - C.G. Environment Conservation

Board, Korba

Other

ARBITRARY

DETERMINAND	CODE	AOQFLAG	VALUE	DETERMINAD	CODE	AOQFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 5	7	TURBIDITY JTUNTU	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 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 Kjeldahl 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) NESSELEIZATION	0 7 0 0 4 N		
B.O.D. mg/L	0	8 2 0 1 N 1	0	HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	7 0	0
C.O.D. mg/L	0	8 3 0 1 N 1 6	0	TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N	1 1	0
CHLORIDE mg/L		N 2 6	9 9	TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N	2 9 7	0
(i) ARGENTOMETRIC	1	7 2 0 1 N		FIXED DISSOLVED SOLIDS mg/L	4 4 4 4 4 N		
(ii) MERCURIMETRIC	1	7 2 0 1 N		AMMONICAL NITROGEN mg/L			
SULPHATE mg/L		N 1 0	0	(i) COLOURIMETRY	0 7 5 5 5 N		
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISILLATION 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 4 0	0	E-Coli MPN/100 ML			
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 4	5				
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Checked

Qmk Scientist

Region 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 1 0 2 1 9

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

50cm 50-100 cm 100cm 100cm

5. COLOUR & INTENSITY
ODOUR

Clear Turbid Green Brown
None Fishy H₂S Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

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

ARBITRARY

DETERMINAND

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0 2 0 0 1 N 2 5 7		
pH	1 0 3 0 2 N 7 1 6		
CONDUCTIVITY μ mhos/cm	0 2 0 4 1 N		
ALKALINITY mg/L	N 7 4 0		
(i) ELECTROMETRIC	1 0 1 0 1 N		
(ii) VISUAL TITRATION	1 0 1 0 2 N		
Nitrate NITROGEN (NO ₃) mg/L	0 7 1 0 5 N		
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 0 0		
CHLORIDE mg/L	N 2 0 9 9		
(i) ARGENTOMETRIC	1 7 2 0 1 N		
(ii) MERCURIMETRIC	1 7 2 0 1 N		
SULPHATE mg/L	N 8 0		
(i) GRAVIMETRIC	1 6 3 0 1 N		
(ii) TURBIDIMETRIC	1 6 3 0 2 N		
SODIUM mg/L	1 1 1 0 3 N		
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1 N 3 2 0		
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0 3 N 3 4 0		
TOTAL COLIFORM MPN/100 ML	3 6 0 1 1 N 1 7 0		
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 KJLDALIL NITROGEN mg/L			
(i) TITRATION	0 7 0 0 1 N		
(ii) NITRIFICATION	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 4 0 0		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 9 0 0		
FIXED DISSOLVED SOLIDS mg/L	4 3 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			
F-Coli MPN/100 ML	N 0 6		
	N 1 2 0		

Anal By

Chemist

Supv Scientist

Regional Officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS / GEMS

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

1. STATION CODE

1 1 0 5

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

0 7 0 2 1 9

3. WEATHER

Clouds Clear Winds Raining

4. APPROX DEPTH OF MAIN STREAM

Stream 50-100 cm. Turbulent Flow

5. COLOUR & INTENSITY ODOUR

Clear Green Brown 2 Moderate 3 High
None Fishy Hsb Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION LOCATION DETAIL

U/S of Town of Industrial Area Cattle Wading Pilgrim Centre Fishing
Industrial Area Bathing Ghat Water Supply

ARBITRARY DETERMINAND

DETERMINAND	CODE	AQC FLAG	VALUE	DETERMINAND	CODE	AQC FLAG	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 5		VELOCITY OF FLOW, m/sec			
CONDUCTIVITY μ mhos/cm	0 2 0 4	1 N		(i) CURRENT METER	0 2 2 0	1 N	
ALKALINITY mg/L		N 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 KJL DAHL 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 6		(ii) NITRIFICATION	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 4 0		TOTAL COLIFORM MPN/100 ml	2 2 1 0	1 N 2 7 0	
CHLORIDE mg/L		N 2 0 9 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 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 4 0		E.Coli MPN/100 ML		0 3	
MAGNESIUM AS CaCO ₃ mg/L	1 2 1 0	3 N 3 6 0					
TOTAL COLIFORM MPN/100 ML	3 6 0 1	1 N 1 7 0					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

[Signature]

Checked By

[Signature]

Scientist

[Signature]

Registered Officer

[Signature]

1. STATION CODE

MINARS / GEMS

Annexure-VI

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

0 1 0 5

2 6 0 3 1 9

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

3. WEATHER

Cheedy | 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 | 2 = Moderate | 3 = High
None Fishy H₂S Other

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

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None | Moderate | High

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

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading | ~~Pilgrim Centre/~~ | ~~Abstraction for~~
U/S of Town of | Industrial Area | Bathing Ghat | Water Supply

AGENCY - C.G. Environment Conservation Board, Korba

ARBITRARY

DETERMINAND	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 6 0	
pH	1	0 3 0 2 N 7 1 7	
CONDUCTIVITY μ mhos/cm	0	2 0 4 1 N	
ALKALINITY mg/L		N 8 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 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 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	
SULPHATE mg/L		N 8 0	
(i) GRAVIMETRIC	1	6 3 0 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N	
SODIUM mg/L	1	1 1 0 3 N	
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 3 6 0	
MAGNESIUM AS CaCO ₃ mg/L	1	2 1 0 3 N 3 8 0	
FECAL COLIFORM MPN/100 ML	3	6 0 1 1 N 1 2 0	
INSTANTANEOUS DISCHARGE M ³ /s			

DETERMINAD	CODE	AQCFLAG	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 7 4 0		
TOTAL COLIFORM MPN/100 ml	2 2 1 0 1 N 2 4 0		
TOTAL DISSOLVED SOLIDS mg/L	3 3 3 3 3 N 2 1 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		0 5	
E.Coli MPN/100 ML		N	

Analysed By

Chemist

Scientist

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 3 1 9

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

<50cm 50-100 cm >100cm Flood

5. COLOUR & INTENSITY ODOUR

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

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT

None Moderate High

8. HUMAN ACTIVITIES AROUND STATION

Cattle Wading Melon farming Fishing

9. LOCATION DETAIL

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

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

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 6 . 1		TURBIDITY JTU/NTU	0 2 1 0 1	N	
pH	1 0 3 0 2	N 7 . 1 5		VELOCITY OF FLOW. m/sec		N	
CONDUCTIVITY μ mhos/cm	0 2 0 4 1	N		(i) CURRENT METER	0 2 2 0 1	N	
ALKALINITY mg/L		N 7 2 . 0		(ii) FLOT	0 2 2 0 2	N	
(i) ELECTROMETRIC	1 0 1 0 1	N		(iii) CHEMICAL	0 2 2 0 3	N	
(ii) VISUAL TITRATION	1 0 1 0 2	N		TOTAL KILDAHL NITROGEN mg/L		N	
Nitrate Nitrogen (NO ₃) mg/L	0 7 1 0 5	N		(i) TITRATION	0 7 0 0 1	N	
DISSOLVED OXYGEN mg/L	0 8 1 0 1	N 7 . 2		(ii) NESSELERIZATION	0 7 0 0 4	N	
B.O.D. mg/L	0 8 2 0 1	N 0 . 8		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1	N 6 8 . 0	
C.O.D mg/L	0 8 3 0 1	N 1 4 . 0		TOTAL COLIFORM MPN/100 ml	2 2 1 0 1	N 3 3 . 0	
CHLORIDE mg/L		N 2 1 . 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 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		N 0 . 7	
CALCIUM AS CaCO ₃ mg/L	2 0 1 0 1	N 3 6 . 0		E-Coli MPN/100 ML		N	
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 1 3 . 0					
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Chemist

Scientist

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
 2 1 0 2 1 9
 0 3 1 5

STATION- Down Strem 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

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

Clear	Turbid	Brown	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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- 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	AQCFLAG	VALUE	DETERMINAD JT/UNTU	CODE	AQCFLAG	VALUE
TEMPERATURE	0	2 0 0 1 N 2 6	2	TURBIDITY JT/UNTU	0	2 1 0 1 N	
pH	1	0 3 0 2 N 7	2 1	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 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	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 0	0	TOTAL COLIFORM MPN/100 ml	2	2 1 0 1 N 9	2
CHLORIDE mg/L		N 2 5	9 9	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		N 9	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 0
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N 4 0	0	E-Coli MPN/100 ML			
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 4	0				
INSTANTANEOUS DISCHARGE M ³ /s							

Handwritten signatures and notes:
 B. P. Mishra
 11/11/2011
 G. P. Mishra
 11/11/2011

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

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

4. APPROX DEPTH OF MAIN STREAM

5. COLOUR & INTENSITY ODOUR

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

Clarity	Clear	Windy	Reining
< 50 cm	50-100 cm	> 100cm	Flood

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

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

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

TYPE- River Water

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

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

AGENCY - C.G. Environment Conservation Board, Korba

Other

ARBITRARY DETERMINAND CODE

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

Analysed By

Chemist

Scientist

Regional officer

1. STATION CODE

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES
3 1 7 0

MINARS / GEMS

Annexure-VI

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

2 6 0 3 1 9

0 1 3 5

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

3. WEATHER

Cloudy Clear Windy Raining

4. APPROX DEPTH OF MAIN STREAM

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

5. COLOUR & INTENSITY ODOUR

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

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

None Fishy H₂S Other None Moderate High

8. HUMAN ACTIVITIES AROUND STATION
9. LOCATION DETAIL

Cattle Wading Melon Farming Eishing
D/S of Town of Industrial Area Bathing Ghat Water Supply

ARBITRARY

Other

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 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				(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 6	(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 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	< 1 8
CHLORIDE mg/L				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			
SULPHATE mg/L				(i) COLOURIMETRY	0	7 5 5 5 N	
(i) GRAVIMETRIC	1	6 3 0 1 N		(ii) DISTILLATION TITRATION	0	7 5 5 1 N	
(ii) TURBIDIMETRIC	1	6 3 0 2 N		BORON DISSOLVED mg/L	0	5 1 0 5 N	
SODIUM mg/L	1	1 1 0 3 N		PHOSPHATE mg/L			0 4
CALCIUM AS CaCO ₃ mg/L	2	0 1 0 1 N	3 8 0	E-Coli MPN/100 ML			
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	< 1 8				
INSTANTANEOUS DISCHARGE M ³ /s							

Analysed By

Chemist

Scientist

Regional officer

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

✓ MINARS/GEMS

MINDAT / GLOWDAT

1 1 0 1

2 2 0 1 1 9

0 9 1 0

√Clear Windy Raining

STATION : Mahanadi River, Raigarh

<50cm. √>50 - 100 cm. >100 cm. Flood

TYPE : Interstate boundary near Surajgarh

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

COMPLETED BY : Sooraj Kumar Dhurwe (Scientist)

√None Fishy H₂S Other

VERIFIED BY : Sooraj Kumar Dhurwe (Scientist)

√ none moderate High

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

Cattle Wading Melon Farming Fishing √Other

7. VISIBLE EFFLUENT DISCHARGE IN PROXIMITY

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

8. HUMAN ACTIVITIES AROUND STATION

9. LOCATION DETAIL

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

S.K.P.
SCIENTIST

S.K.P.
CHEMIST

S.K.P.
SAMPLER

S.K.P.
REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1 8 4 9

2 2 0 1 1 9

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 : Kelb River, Raigarh
 TYPE : Up Stream of Raigarh City
 COMPLETED BY : Sooraj Kumar Dhurwe (Scientist)
 VERIFIED BY : Sooraj Kumar Dhurwe (Scientist)
 AGENCY : R. O. C. E. C. B. Raigarh

- 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

DETERMINDAND	WHO CODE	AQC FLAGE	VALUE	DETERMINDAND	ARBITRARY CODE	AQC FLAGE	VALUE
TEMPERATURE, °c	0 2 0 0 1 N	1 6		TURBIDITY, JTU/NTU	0 2 1 0 1 N	1 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 2	0	(i) CURRENT METER	0 2 2 0 1 N		
ALKALINITY, mg/L				(ii) FLOAT	0 2 2 0 2 N		
(1) ELECTROMETRIC	1 0 1 0 1 N			(iii) CHEMICAL	0 2 2 0 3 N		
(2) VISUAL TITRATION	1 0 1 0 2 N	9 0	0	TOTAL KJELDAHL NITROGEN, mg/L			
NITROGEN(NO ₃ + NO ₂), mg/L	0 7 1 0 5 N	0 8 9		(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	2 1		HARDNESS as CaCO ₃ mg/L	2 2 1 0 1 N	6 2	0
COD, mg/L	0 8 3 0 1 N	2 0	0	TOTAL COLIFORM, MPN/100ml	3 7 0 0 1 N	2 1 0	
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L	3 3 3 3 3 N	1 4 5	0
(1) ARGENTOMETRIC	1 7 2 0 1 N	2 3	0	FIXED DISSOLVED SOLIDS, mg/L	4 4 4 4 4 N		
(2) MERCURIMETRIC	1 7 2 0 1 N			AMMONIA NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY	0 7 5 5 5 N	1 1 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	6 0	0	BORON DISSOLVED, mg/L	0 5 1 0 5 N		
SODIUM, mg/L	1 1 1 0 3 N			PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2 0 1 0 1 N	1 7	1	NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1 2 1 0 3 N	4 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						

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

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

hnp
 SCIENTIST

S. S. S.
 CHEMIST

S. S. S.
 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 2 0 1 1 9

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

STATION : Kelo River, Raigarh
 TYPE : Down Stream of Raigarh City
 COMPLETED BY : Sooraj Kumar Dhurwe (Scientist)
 VERIFIED BY : Sooraj Kumar Dhurwe (Scientist)
 AGENCY : R. O. C. E. C. B. Raigarh

WHO CODE AQC FLAG VALUE DETERMINAND DETERMINAND AQC FLAG VALUE

DETERMINDAND	WHO CODE	AQC FLAG	VALUE	DETERMINDAND	DETERMINDAND	AQC FLAG	VALUE
TEMPERATURE, °c	0	0	1 5	TURBIDITY, JTU/NTU		0	2 1 0 1 N 3 9 0
pH	1	0 3 0 2	N 7 7	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 4 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 5	(ii) NESSELERIZATION		0	7 0 0 4
BOD, mg/L	0	8 2 0 1	N 2 1	HARDNESS as CaCO ₃ mg/L		2	2 1 0 1 N 7 3 0
COD, mg/L	0	8 3 0 1	N 2 7 0	TOTAL COLIFORM, MPN/100ml		3	7 0 0 1 N 2 3 0
CHLORIDE, mg/L				TOTAL DISSOLVED SOLIDS, mg/L		3	3 3 3 3 N 1 5 5 0
(1) ARGENTOMETRIC	1	7 2 0 1	N 2 5 0	FIXED DISSOLVED SOLIDS, mg/L		4	4 4 4 4 N
(2) MERCURIMETRIC	1	7 2 0 1	N	AMMONIA NITROGEN, mg/L			
SULPHATE, mg/L				(i) COLOURIMETRY		0	7 5 5 5 N 1 2 0
(1) GRAVIMETRIC	1	6 3 0 1	N	(ii) DISTILLATION TITRATION		0	7 5 5 1 N
(2) TURBIDIMETRIC	1	6 3 0 2	N 6 4 0	BORON DISSOLVED, mg/L		0	5 1 0 5 N
SODIUM, mg/L	1	1 1 0 3	N	PHOSPHATE, mg/L			
CALCIUM as CaCO ₃ , mg/L	2	0 1 0 1	N 2 0 1	NITRITE, mg/L			
MAGNESIUM as CaCO ₃ , mg/L	1	2 1 0 3	N 6 0 8	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				

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

[Signature]
 SCIENTIST

[Signature]
 CHEMIST

[Signature]
 SAMPLER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 1 0 1

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 5 0 2 1 9 0 2 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 : Sooraj Kumar Dhurwe (Scientist)

VERIFIED BY : Sooraj Kumar Dhurwe (Scientist)

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

STATION : Mahanadi River, Raigarh

TYPE : Interstate boundary near Surajgarh

COMPLETED BY : Sooraj Kumar Dhurwe (Scientist)

VERIFIED BY : Sooraj Kumar Dhurwe (Scientist)

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

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


 SCIENTIST


 REGIONAL OFFICER

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE : 1 8 4 9

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

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 : Sooraj Kumar Dhurwe (Scientist)

VERIFIED BY : Sooraj Kumar Dhurwe (Scientist)

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

DETERMINAND WHO CODE AQC FLAG VALUE

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

DETERMINAND ARBITRARY CODE AQC FLAG VALUE

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0 2	1 0 1 N	1 1 5
VELOCITY OF FLOW, m/sec			
(i) CURRENT METER	0 2	2 0 1 N	
(ii) FLOAT	0 2	2 0 2 N	
(iii) CHEMICAL	0 2	2 0 3 N	
TOTAL KJELDAHL NITROGEN, mg/L			
(i) TITRATION	0 7	0 0 1 N	
(ii) NESSELERIZATION	0 7	0 0 4	
HARDNESS as CaCO ₃ mg/L	2 2	1 0 1 N	6 8 0
TOTAL COLIFORM, MPN/100ml	3 7	0 0 1 N	4 0
FIXED 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			0 0 8
NITRITE, mg/L			0 0 1 5
NITRATE NITROGEN (NO ₃ N), mg/L			0 8 4
TOTAL SUSPENDED SOLIDS, mg/L			4 5 0

Sooraj Kumar Dhurwe
REGIONAL OFFICER

[Signature]
SCIENTIST

[Signature]
CHEMIST

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

- STATION CODE: 1 8 5 0
- DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 5 0 2 1 9
- 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 : Sooraj Kumar Dhurwe (Scientist)

VERIFIED BY : Sooraj Kumar Dhurwe (Scientist)

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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LOCATION DETAIL

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


 SCIENTIST


 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 7 0 3 1 9 1 2 3 0

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

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 : Satish Kumar Patel (Chemist)

VERIFIED BY : Ku. Him Shweta Khakha (Chemist)

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

ARBITRARY CODE

DETERMINAND

WHO CODE

AQC FLAGE

VALUE

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

Satish Kumar Patel
CHEMIST

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

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

MINDAT / GLOWDAT

1. STATION CODE: 1 8 5 0

2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY): 2 7 0 3 1 9 0 3 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 : Satish Kumar Patel (Chemist)
 VERIFIED BY : Ku. Him Shweta Khakha (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 5	
pH	1	0 3 0 2 N 7 7	
CONDUCTIVITY, µmhos/cm	0	2 0 4 1 N 1 9 7	0
ALKALINITY, mg/L			
(1) ELECTROMETRIC	1	0 1 0 1 N	
(2) VISUAL TITRATION	1	0 1 0 2 N 8 4	0
NITROGEN(NO ₃ + NO ₂), mg/L	0	7 1 0 5 N 0 8 4 8	
DISSOLVED OXYGEN, mg/L	0	8 1 0 1 N 6 4	
BOD, mg/L	0	8 2 0 1 N 3 7 4	
COD, mg/L	0	8 3 0 1 N 3 1	
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 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 7 6	
MAGNESIUM as CaCO ₃ , mg/L	1	2 1 0 3 N 7 0 7	
FECAL COLIFORM MPN/100mg/L	3	6 0 1 1 N	
INSTANTANEOUS DISCHARGE, m ³ /s	9	7 1 6 7 N	

DETERMINAND DETERMINAND VALUE

DETERMINAND	ARBITRARY CODE	AQC FLAG	VALUE
TURBIDITY, JTU/NTU	0	2 1 0 1 N 2 1 5	
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 7 3 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 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 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			
NITRATE NITROGEN (NO ₃), mg/L			
TOTAL SUSPENDED SOLIDS, mg/L			

[Signature]
CHEMIST

[Signature]
CHEMIST

[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 7175/क्षेका/वैज्ञा/छ.प.सं.मं/2019

रायपुर

दिनांक

13/02/2019

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 जनवरी 2019.
महोदय,

उपरोक्त विषयांतर्गत माह जनवरी 2019 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 मेसर्स प्रकृति इण्डस्ट्रीज, रावांभाठा, रायपुर	1621	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

S.S.O.

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

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

STATION CODE	MINDAT / GLOWDAT									
	1	0	9	9	1	1	9	1	2	2
1. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	6	0	1	1	9	1	2	2	0
2. WEATHER	Cloudy		√Clear	Windy	Raining					
3. APPROX. DEPTH OF MAIN STREAM	< 50 cm		√50-100 cm	> 100 cm	Flood					
4. COLOUR & INTENSITY	√Clear		Turbid	Green	Brown					
5. ODOUR	√None		fishy	H ₂ S	Other					
6. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	√None		None	Moderate	High					
7. HUMAN ACTIVITIES AROUND STATION	Cattle		√Melon forming	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat					
8. LOCATION DETAIL	√U/s of town or Industrial area		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	23.0	ARSENIC, µg/L		ARSENIC, µg/L	
pH		CADMIUM, µg/L		CADMIUM, µg/KG	
CONDUCTIVITY µS/CM	322.0	COPPER, µg/L		COPPER, µg/L	
ALKALINITY MG/L (TOTAL)		CHROMIUM (TOTAL), µg/L		CHROMIUM (TOTAL), µg/KG	
(I) ELECTROMETRIC		NICKEL, µg/L		NICKEL, µg/L	
(II) VISUAL TITRATION	138.0	ZINC, µg/L		ZINC, µg/L	
NITROGEN (NO ₂) MG/L		MERCURY, µg/L		MERCURY, µg/L	
DISSOLVED OXYGEN MG/L	6.5	IRON (TOTAL), µg/L		IRON (TOTAL), MG/KG	
BOD MG/L		LEAD, µg/L		LEAD, µg/KG	
COD MG/L	23.76	BHC (TOTAL), µg/L		BHC (TOTAL), µg/L	
CHLORIDE MG/L		DDT (TOTAL), µg/L		DDT (TOTAL), µg/L	
(I) ARGENTOMETRIC	44.0	ENDOSULPHAN, µg/L		ENDOSULPHAN, µg/L	
(II) MERCURIMETRIC		DIELDRIN, µg/L		DIELDRIN, µg/L	
SULPHATE MG/L		ELDRINE, µg/L		ELDRINE, µg/L	
(I) GRAVIMETRIC		CARBAMATE, µg/L		CARBAMATE, µg/L	
(II) TURBIDITY MATRIC		2-4D, µg/L		2-4D, µg/L	
SODIUM MG/L		MELATHION, µg/L		MELATHION, µg/L	
CALCIUM as CaCO ₃ MG/L	82.0	PARATHION, µg/L		PARATHION, µg/L	
MAGNESIUM as CaCO ₃ MG/L	38.0				
FECAL COLIFORM MPN/100 ML					
INSTANTANEOUS DISCHARGE M ³ /S					
PHYSICO-CHEMICAL PARAMETERS	VALUE	PHYSICO-CHEMICAL PARAMETERS	VALUE	BIO MONITORING	VALUE
TURBIDITY JT/UNTU	54.0	FIXED DISSOLVED SOLID MG/L	92.0	SAPROBITY	
VELOCITY OF FLOW M/SEC		AMMONIA NITROGEN MG/L		DIVERSITY INDEX	
(I) CURRENT METER		(I) COLOURIMETRIC MG/L		P/R RATIO	
(II) FLOAL		(II) DISTILLATION TITRATION MG/L			
(III) CHEMICAL		BORAN DISSOLVED MG/L			
TOTAL KJELDAHAL NITROGEN MG/L		PHOSPHATE MG/L			
(I) TITRATION		NITRATE (NO ₂) MG/L			
(II) NESSELFERIZATION		PHENOLPHTHALEIN ALKALINITY MG/L			
HARDNESS AS CaCO ₃ MG/L	120.0	TOTAL SUSPENDED SOLID MG/L	64.0		
TOTAL COLIFORM MPN/100ML		POTASSIUM MG/L			
TOTAL DISSOLVED SOLID MG/L	180.0	FLUORIDE MG/L			

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

√ MINARS/GEMS

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

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

TEMPERATURE °C	2	3	0
pH			
CONDUCTIVITY μS/CM	3	0	2
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	2	8
NITROGEN (NO ₂) MG/L			
DISSOLVED OXYGEN MG/L	6	5	
BOD MG/L			
COD MG/L	1	4	2
CHLORIDE MG/L			
(I) ARGENTOMETRIC	3	0	0
(II) MERCURIMATRIC			
SULPHATE MG/L			
(I) GRAVIMATRIC			
(II) TURBIDITY MATRIC			
SODIUM MG/L			
CALCIUM as CaCO ₃ MG/L	8	0	0
MAGNESIUM as CaCO ₃ MG/L	3	2	0
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY JTU/NTU	3	8	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION			
HARDNESS AS CaCO ₃ MG/L	1	1	2
TOTAL COLIFORM MPN/100ML			
TOTAL DISSOLVED SOLID MG/L	1	6	2
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 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	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	5	0	0
POTASSIUM MG/L			
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 L			
DDT (TOTAL), μg/L			
ENDOSULPHAN, μg/L			
DIELDRIN, μg/L			
ELDRINE, μg/L			
CARBAMATE, μg/L			
2-4D, μg/L			
MELATHION, μg/L 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	5	MINDAT / GLOWDAT						
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	0	9	0	1	1	9	1	0	3	0	RIVER KHARON AT BHATAGAON
3. WEATHER	Cloudy	<50 cm	<Clear	>100 cm	Windy	>100 cm	Raining	Flood	U/S Near w/s intake well		
4. APROX. DEPTH OF MAIN STREAM	<50 cm	<Clear	Turbid	Green	Brown			RIVER			
5. COLOUR & INTENSITY	<None	fishy	H ₂ S	Moderate	High			S.K.Khanna (Lab.Asst. Grade-II), Sanjay Singh (Lab.Asst. Grade-II)			
6. ODOUR	<None	fishy	H ₂ S	Moderate	High			Scientist			
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle	<None	melon	Forming	√Other			REGIONAL OFFICE CHHATTISGARH			
8. HUMAN ACTIVITIES AROUND STATION	√U/s of town or Industrial area	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat			ENVIRONMENT CONSERVATION					
9. LOCATION DETAIL	BOARD RAIPUR (C G)										

PHYSICO-CHEMICAL PARAMETERS VALUE

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

MICRO POLLUTANT (WATER) VALUE

ARSENIC, µg/L	
CADMIUM, µg/L	
COPPER, µg/L	
CHROMIUM (TOTAL), µg/L	
NICKEL, µg/L	
ZINC, µg/L	
MERCURY, µg/L	
IRON (TOTAL), µg/L	
LEAD, µg/L	
BHC (TOTAL), µg/L	
DDT (TOTAL), µg/L	
ENDOSULPHAN, µg/L	
DIELDRIN, µg/L	
ELDRINE, µg/L	
CARBAMATE, µg/L	
2-4D, µg/L	
MELATHION, µg/L	
PARATHION, µg/L	
PHYSICO-CHEMICAL PARAMETERS VALUE	
FIXED DISSOLVED SOLID MG/L	8
AMMONIA NITROGEN MG/L	4
(I) COLOURIMETRIC MG/L	0
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	
PHOSPHATE MG/L	
NITRATE MG/L	
PHENOLPHTHALEIN ALKALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	6
POTASSIUM MG/L	2
FLUORIDE MG/L	0
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	
PIR RATIO	

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MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

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

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

TEMPERATURE °C	2	4	0	ARSENIC, µg/L				CHROMIUM (TOTAL), µg/KG		
pH				CADMIUM, µg/L				NICKEL, µg/L		
CONDUCTIVITY µS/CM	3	3	4	COPPER, µg/L				ZINC, µg/L		
ALKALINITY MG/L (TOTAL)			0	CHROMIUM (TOTAL), µg/L				MERCURY, µg/L		
(I) ELECTROMETRIC				NICKEL, µg/L				IRON (TOTAL), MG/KG		
(II) VISUAL TITRATION	1	3	0	MERCURY, µg/L				LEAD, µg/KG		
NITROGEN (NO ₂) MG/L			0	IRON (TOTAL), µg/L				BHC (TOTAL), µg/L L		
DISSOLVED OXYGEN MG/L	6	.	4	LEAD, µg/L				DDT (TOTAL), µg/L		
BOD MG/L				BHC (TOTAL), µg/L L				ENDOSULPHAN, µg/L		
COD MG/L	1	8	2	DDT (TOTAL), µg/L				DIELDRIN, µg/L		
CHLORIDE MG/L			4	ENDOSULPHAN, µg/L				ELDRINE, µg/L		
(I) ARGENTOMETRIC	3	4	0	DIELDRIN, µg/L				CARBAMATE, µg/L		
(II) MERCURIMATRIC				ELDRINE, µg/L				2-4D, µg/L		
SULPHATE MG/L				CARBAMATE, µg/L				MELATHION, µg/L L		
(I) GRAVIMATRIC				2-4D, µg/L				PARATHION, µg/L		
(II) TURBIDITY MATRIC				MELATHION, µg/L						
SODIUM MG/L				PARATHION, µg/L						
CALCIUM as CaCO ₃ MG/L	8	8	0	PHYSICO-CHEMICAL PARAMETERS				BIO MONITORING		VALUE
MAGNESIUM as CaCO ₃ MG/L	3	6	0	FIXED DISSOLVED SOLID MG/L	1	0	2	SAPROBITY		
FECAL COLIFORM MPN/100 ML				AMMONIA NITROGEN MG/L				DIVERSITY INDAX		
INSTANTANEOUS DISCHARGE M/S				(I) COLOURIMETRIC MG/L				PIR RATIO		
				(II) DISTILLATION TITRATION MG/L						
				BORAN DISSOLVED MG/L						
PHYSICO-CHEMICAL PARAMETERS				PHOSPHATE MG/L						
				NITRATE (NO ₃) MG/L						
				PHENOLPHTHALEIN ALKALINITY MG/L						
TURBIDITY JTU/NTU	4	6	0	TOTAL SUSPENDED SOLID MG/L	5	0	0			
VELOCITY OF FLOW M/SEC				POTASSIUM MG/L						
(I) CURRENT METER				FLUORIDE MG/L						
(II) FLOAL				ARSENIC, µg/L						
(III) CHEMICAL				CADMIUM, µg/KG						
TOTAL KJELDAHAL NITROGEN MG/L				COPPER, µg/L						
(I) TITRATION										
(II) NESSELERIZATION										
HARDNESS AS CaCO ₃ MG/L	1	2	4							
TOTAL COLIFORM MPN/100ML			0							
TOTAL DISSOLVED SOLID MG/L	2	1	4							

Handwritten signatures and initials: Af, K, C-7

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	8	5	3	MINDAT / GLOWDAT						
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	9	0	1	1	9	1	6	1	0	STATION : RIVER KHAROON AT BENDRI VILLAGE
3. WEATHER	Cloudy				√Clear	Windy					U/s near CSIDC w/s intake well
4. APPROX. DEPTH OF MAIN STREAM	< 50 cm				50-100 cm	√>100 cm					RIVER
5. COLOUR & INTENSITY	√Clear				Turbid	Green					COMPLETED BY : Sanjay Singh (Lab. Asst. Grade-II)
6. ODOUR	√None				Fishy	H ₂ S					VERIFIED BY : Scientist
7. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	Cattle				√None	Moderate					AGENCY : REGIONAL OFFICE CHHATTISGARH
8. HUMAN ACTIVITIES AROUND STATION	√U/s of town or Industrial area				melon Forming	D/s of Town or Industrial area					ENVIRONMENT CONSERVATION
9. LOCATION DETAIL											BOARD RAIPUR (C G)

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

PHYSICO-CHEMICAL PARAMETERS	VALUE	PHYSICO-CHEMICAL PARAMETERS	VALUE	MICRO POLLUTANT (WATER)	VALUE	MICRO POLLUTANT (SEDIMENT)	VALUE
TEMPERATURE °C	24.0	CADMIUM, µg/L				COPPER, µg/L	
pH		COPPER, µg/L				CHROMIUM (TOTAL), µg/KG	
CONDUCTIVITY µS/CM	310.0	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	132.0	IRON (TOTAL), µg/L				IRON (TOTAL), MG/KG	
NITROGEN (NO ₂) MG/L		LEAD, µg/L				LEAD, µg/KG	
DISSOLVED OXYGEN MG/L	6.5	BHC (TOTAL), µg/L				BHC (TOTAL), µg/L	
BOD MG/L		DDT (TOTAL), µg/L				DDT (TOTAL), µg/L	
COD MG/L	237.6	ENDOSULPHAN, µg/L				ENDOSULPHAN, µg/L	
CHLORIDE MG/L		DIELDRIN, µg/L				DIELDRIN, µg/L	
(I) ARGENTOMETRIC	48.0	ELDRINE, µg/L				ELDRINE, µg/L	
(II) MERCURIMATRIC		CARBAMATE, µg/L				CARBAMATE, µg/L	
SULPHATE MG/L		2-4D, µg/L				2-4D, µg/L	
(I) GRAVIMATRIC		MELATHION, µg/L				MELATHION, µg/L	
(II) TURBIDITY MATRIC		PARATHION, µg/L				PARATHION, µg/L	
SODIUM MG/L							
CALCIUM as CaCO ₃ MG/L	80.0						
MAGNESIUM as CaCO ₃ MG/L	42.0						
FECAL COLIFORM MPN/100 ML							
INSTANTANEOUS DISCHARGE M/S							
PHYSICO-CHEMICAL PARAMETERS	VALUE	PHYSICO-CHEMICAL PARAMETERS	VALUE			BIO MONITORING	VALUE
TURBIDITY JTUN/TU		FIXED DISSOLVED SOLID MG/L	98.0			SAPROBITY	
VELOCITY OF FLOW M/SEC	60.0	AMMONIA NITROGEN MG/L				DIVERSITY INDAX	
(I) CURRENT METER		(I) COLOURIMETRIC MG/L				PIR RATIO	
(II) FLOAL		(II) DISTILLATION TITRATION MG/L					
(III) CHEMICAL		BORON DISSOLVED MG/L					
TOTAL KJELDAHAL NITROGEN MG/L		PHOSPHATE MG/L					
(I) TITRATION		NITRATE (NO ₃) MG/L					
(II) NESSELERIZATION		PHENOLPHTHALEIN ALKALINITY MG/L					
HARDNESS AS CaCO ₃ MG/L	122.0	TOTAL SUSPENDED SOLID MG/L	82.0				
TOTAL COLIFORM MPN/100 ML		POTASSIUM MG/L					
TOTAL DISSOLVED SOLID MG/L		FLUORIDE MG/L					
ARSENIC, µg/L	216.0	ARSENIC, µg/L					
		CADMIUM, µg/KG					

Handwritten signatures and initials: "AJ", "per", "de", "CF"

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1	8	5	1						
2. DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)	1	6	0	1	1	9	1	7	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 PROXIMITY	Cattle	√None	Moderate	High						
8. HUMAN ACTIVITIES AROUND STATION	√U/s of town or Industrial area	melon Forming	D/s of Town or Industrial area	Pilgrim Centre / Bathing Ghat						
9. LOCATION DETAIL	MINDAT / GLOWDAT									
	STATION : RIVER MAHANADI AT SIHAWA									
	TYPE : RIVER									
	COMPLETED BY : 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	2	3	0
pH			
CONDUCTIVITY μS/CM	3	0	8
ALKALINITY MG/L (TOTAL)			0
(I) ELECTROMETRIC			
(II) VISUAL TITRATION	1	2	6
NITROGEN (NO ₂) MG/L			0
DISSOLVED OXYGEN MG/L	6	6	
BOD MG/L			
COD MG/L	1	5	6
CHLORIDE MG/L			
(I) ARGENTOMETRIC	2	8	0
(II) MERCURIMETRIC			
SULPHATE MG/L			
(I) GRAVIMETRIC			
(II) TURBIDITY MATRIC			
SODIUM MG/L			
CALCIUM as CaCO ₃ MG/L	7	8	0
MAGNESIUM as CaCO ₃ MG/L	3	2	0
FECAL COLIFORM MPN/100 ML			
INSTANTANEOUS DISCHARGE M ³ /S			
PHYSICO-CHEMICAL PARAMETERS	VALUE		
TURBIDITY JT/UNTU	4	2	0
VELOCITY OF FLOW M/SEC			
(I) CURRENT METER			
(II) FLOAL			
(III) CHEMICAL			
TOTAL KJELDAHAL NITROGEN MG/L			
(I) TITRATION			
(II) NESSELERIZATION			
HARDNESS AS CaCO ₃ MG/L	1	1	0
TOTAL COLIFORM MPN/100ML			
TOTAL DISSOLVED SOLID MG/L	1	6	4

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 L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L	
PARATHION, μg/L	
PHYSICO-CHEMICAL PARAMETERS	VALUE
FIXED DISSOLVED SOLID MG/L	8
AMMONIA NITROGEN MG/L	8
(I) COLOURIMETRIC MG/L	0
(II) DISTILLATION TITRATION MG/L	
BORAN DISSOLVED MG/L	
PHOSPHATE MG/L	
NITRATE (NO ₃) MG/L	
PHENOLPHTHALEIN AL KALINITY MG/L	
TOTAL SUSPENDED SOLID MG/L	5
POTASSIUM MG/L	4
FLUORIDE MG/L	0
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 L	
DDT (TOTAL), μg/L	
ENDOSULPHAN, μg/L	
DIELDRIIN, μg/L	
ELDRINE, μg/L	
CARBAMATE, μg/L	
2-4D, μg/L	
MELATHION, μg/L L	
PARATHION, μg/L	
BIO MONITORING	VALUE
SAPROBITY	
DIVERSITY INDAX	
P/R RATIO	

Handwritten signatures and initials: *df*, *Ka*, *CF*

MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

MINARS/GEMS

1. STATION CODE	1		8		5		2		MINDAT / GLOWDAT					
	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)		1	6	0	1	1	9	1	0	0	0	0	STATION
2. WEATHER			Cloudy	√Clear	>100 cm	Windy	>100 cm	Raining	: RIVER MAHANADJ AT ARANG					
3. APROX. DEPTH OF MAIN STREAM			<50 cm	50-100 cm	Turbid	Green	Brown	: RIVER						
4. COLOUR & INTENSITY			√Clear	fishy	√None	Moderate	Other	: Sanjay Singh (Lab.Asst. Grade-II)						
5. ODOUR			Cattle	melon	Forming	Other	: Scientist							
6. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT			U/s of town or	D/s of Town or	Industrial area	Pilgrim Centre /	: REGIONAL OFFICE CHHATTISGARH							
7. HUMAN ACTIVITIES AROUND STATION			Industrial area	Industrial area	Bathing Ghat	: ENVIRONMENT CONSERVATION								
8. LOCATION DETAIL									: BOARD RAIPUR (C G)					

PHYSICO-CHEMICAL PARAMETERS

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

MICRO POLLUTANT (WATER)

PARAMETERS	VALUE	9	6	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		9	6	0
AMMONIA NITROGEN MG/L				
(I) COLOURIMETRIC MG/L				
(II) DISTILLATION TITRATION MG/L				
BORAN DISSOLVED MG/L				
PHOSPHATE MG/L				
NITRATE (NO ₃) MG/L				
PHENOLPHTHALEIN ALKALINITY MG/L				
TOTAL SUSPENDED SOLID MG/L		5	6	0
POTASSIUM MG/L				
FLUORIDE MG/L				
ARSENIC, µg/L				

MICRO POLLUTANT (SEDIMENT)

PARAMETERS	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 6 2 1				MINDAT / GLOWDAT							
	DATE & TIME OF SAMPLE TAKEN (DD/MM/YY)				STATION							
2. WEATHER	1	0	0	1	1	1	9	1	1	0	0	Bore well water in the Premises of Prakriti Industries, Rawabhata, Raipur
3. APROX. DEPTH OF MAIN STREAM	Cloudy	<50 cm	>100 cm	√	Windy	>100 cm	Green	Green	Raining	Flood	Brown	BORE WELL WATER
4. COLOUR & INTENSITY	√	Clear	Turbid	fishy	None	H ₂ S	Moderate	Forming	Other	High	Other	S.K. Khanna (Lab.Asst. Grade-II), Sanjay Singh (Lab.Asst. Grade-II)
5. ODOUR	√	None	Cattle	U/s of town or Industrial area	D/s of Town or Industrial area	Industrial area	Other	High	Other	High	Other	Scientist
6. VISIBLE EFFLUENT DISCHARGE IN PROXIMIT	REGIONAL OFFICE CHHATTISGARH											
7. HUMAN ACTIVITIES AROUND STATION	ENVIRONMENT CONSERVATION											
8. LOCATION DETAIL	BOARD RAIPUR (C.G)											

PHYSICO-CHEMICAL PARAMETERS VALUE

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

MICRO POLLUTANT (WATER) VALUE

ARSENIC, µg/L			
CADMIUM, µg/L			
COPPER, µg/L			
CHROMIUM (TOTAL), µg/L			
NICKEL, µg/L			
ZINC, µg/L			
MERCURY, µg/L			
IRON (TOTAL), µg/L			
LEAD, µg/L			
BHC (TOTAL), µg/L			
DDT (TOTAL), µg/L			
ENDOSULPHAN, µg/L			
DIELDRIN, µg/L			
ELDRINE, µg/L			
CARBAMATE, µg/L			
2-4D, µg/L			
MELATHION, µg/L			
PARATHION, µg/L			
PHYSICO-CHEMICAL PARAMETERS VALUE:			
FIXED DISSOLVED SOLID MG/L	1	5	4
AMMONIA NITROGEN MG/L			0
(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	3	2	0
POTASSIUM MG/L			
FLUORIDE MG/L			
ARSENIC, µg/L			
CADMIUM, µg/L			

MICRO POLLUTANT (SEDIMENT) VALUE

COPPER, µg/L			
CHROMIUM (TOTAL), µg/L			
NICKEL, µg/L			
ZINC, µg/L			
MERCURY, µg/L			
IRON (TOTAL), µg/L			
CYANIDE, µg/L			
BHC (TOTAL), µg/L			
DDT (TOTAL), µg/L			
ENDOSULPHAN, µg/L			
DIELDRIN, µg/L			
ELDRINE, µg/L			
CARBAMATE, µg/L			
2-4D, µg/L			
MELATHION, µg/L			
PARATHION, µg/L			
BIO MONITORING VALUE			
SAPROBITY			
DIVERSITY, INDAX			
P/R RATIO			

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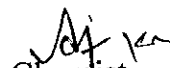
REGIONAL OFFICE
C.G. ENVIRONMENT CONSERVATION BOARD
HOUSING BOARD COMPLEX, KABIR NAGAR, RAIPUR (C.G.)

Natural Water Analysis Report

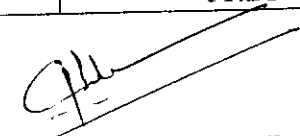
Sample Collected From	:	Maharajbandh Talab, Raipur
Description of Sample	:	Pond Water
Date & Time of Sample Collection	:	24.01.2019 (03:45 PM)
Date of Sample Received	:	24.01.2019
Date of Sample Analysis	:	24.01.2019
Sample Collected By	:	Sanjay Singh (Lab. Asst. Grade –II), Y.K.Bhaskar (Lab.Attd.)
Sample Analysed by	:	Sanjay Singh (Lab. Asst. Grade –II), Y.K.Bhaskar (Lab.Attd.)
Reference	:	As Per Package


S.No.	Characteristics	Unit	Result
1	Temperature	°C	24.0
2	Appearance	--	Slight Turbid
3	Odour	--	Odorless
4	Conductivity	μ Mhos/cm	364.0
5	Turbidity	NTU	84.0
6	Total Solids	Mg/Liter	334.0
7	Total Dissolved Solids	"	224.0
8	Suspended Solids	--	110.0
9	Dissolved Oxygen	"	5.8
10	C.O.D.	"	54.8
11	Total Alkalinity	"	152.0
12	Total Hardness (as CaCO ₃)	"	138.0
13	Calcium Hardness(as CaCO ₃)	"	94.0
14	Magnesium Hardness (asCaCO ₃)	"	44.0
15	Chloride (as Cl)	"	44.0
16	Calcium	"	39.2
17	Magnesium	"	11.21

Lab. Asst.


 Chemist


 Scientist


 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 564 / वैज्ञा / क्षेका / छ.प.सं.मं / 2019 रायपुर दिनांक

08 MAY 2019 / 2019

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 फरवरी एवं मार्च 2019.

महोदय,

उपरोक्त विषयांतर्गत माह फरवरी एवं मार्च 2019 में मीनार्स कार्यक्रमानुसार प्राकृतिक जल स्रोतों के जल नमूने का एकत्रीकरण कर विश्लेषण कार्य किया गया। विश्लेषण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है।

क्र.	जल नमूने का विवरण	स्टेशन क्र.	रिमार्क
01	महानदी राजिम (नवापारा राजिम रोड ब्रिज के पास उपरी जल धारा)	1099	रिपोर्ट संलग्न है।

संलग्न :- उपरोक्तानुसार।

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

Handwritten signatures and dates: 24/5/19, 25/05/19, and S.S.O. with a signature.

