



Submission of six monthly reports on status of compliance of the conditions stipulated in Environment Clearance .
Reference: EC letter no. J-11015/208/2006-IA.II (I) Dated 31.12.2007 .

Gpil Environment to: iro.raipur-mefcc, EC Compliance
Chhattisgarh

20-06-2023 13:00

Cc: Sanjay Srivastava

Dear Sir,

With reference to the above letter, we are submitting herewith the status of progress on compliance of the conditions stipulated in Environment Clearance granted vide EC letter no. J-11015/208/2006-IA.II(I) dated 31.12.2007 for Iron Ore Mines at Village - Boria Tibbu, Tehsil Manpur Distt. - Rajnandgaon (C.G.) of Godawari Power & Ispat Limited at Siltara - Raipur, for the **period Oct, 2022 to Mar, 2023.**



Boria Tibbu Iron Ore Mines Six Monthly EC compliance status report.pdf

This is for your kind information and necessary record please.

Regards,

Environment Management System - GPIL

HIRA

GODAWARI POWER & ISPAT

428/2, Phase-1, Industrial Area, Siltara,

Raipur - 493111, Chhattisgarh, India

T: +91 771 4082186 | F: +91 771 4082333 | M: +91 97524 99619



HIRA

GODAWARI POWER & ISPAT



File No. GPIL/EMS/23-24/ 293

Date: 01.06.2023

To,
The Regional Officer,
Ministry of Environment, Forest & Climate Change
Integrated Regional Office, Aranya Bhawan
North Block, Sector-19
Naya Raipur, Atal Nagar, Chhattisgarh- 492002
Email ID – iro.raipur-mefcc@gov.in

Subject : Submission of six monthly reports on status of compliance of the conditions stipulated in Environment Clearance.

Reference: EC letter no. J-11015/208/2006-IA.II (I) Dated 31.12.2007.

Dear Sir,

With reference to the above letter, we are submitting herewith the status of progress on compliance of the conditions stipulated in Environment Clearance granted vide EC letter no. J-11015/208/2006-IA.II (I) dated 31.12.2007 for Iron Ore Mines at Village - Boria Tibbu, Tehsil Mohala, Distt. - Rajnandgaon (C.G.) of Godawari Power & Ispat Limited at Siltara - Raipur, for the period **Oct, 2022 to Mar, 2023**.

This is for your kind information and necessary record please.

Thanking you,

Yours faithfully,

For; **GODAWARI POWER & ISPAT LTD.**

(Authorized Signatory)

Godawari Power & Ispat Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 certified company
CIN L27106CT1999PLC013756

Registered Office and Works: Plot No. 428/2, Phase 1, Industrial Area, Siltara, Raipur - 493111, Chhattisgarh, India

P: +91 771 4082333, **F:** +91 771 4082234

Corporate Address: Hira Arcade, Near New Bus Stand, Pandri, Raipur - 492001, Chhattisgarh, India

P: +91 771 4082000, **F:** +91 771 4057601

www.godawaripowerispat.com, www.hiragroup.com

SIX MONTHLY COMPLIANCE REPORT

PART-I: DATA SHEET

1	Project Type: River-valley/ Mining / Industry / Thermal / Nuclear/Other (Specify)	Mining
2	Name of the project	Boria Tibbu Iron Ore mine of M/s Godawari Power and Ispat Ltd at village Boria Tibbu, Tehsil Manpur in district Rajnandgaon in Chhattisgarh.
3	Clearance Letter(s)/OM No. and date	J-11015/208/2006-IA II(M) dated 31.01.2007 Amendment in EC vide letter No. J-11015/208/2006.IA-II (M) dated 15.10.2015
4	Location	Village – Boria (Forest Compartment 535 & 536)
	a. District (s)	Rajnandgaon
	b. State (s)	Chhattisgarh
	c. Latitude/ Longitude	80°55'53.08" to 80°55'36.0"/20°27'46.3" to 20°27'05.7"
5	Address for correspondence	
	a. Address of the Concerned Project Chief Engineer (With Pin Code & Telephone/ Telex/ Fax Numbers)	Mr. Ganga Ram Verma VP (Mines) & Agent Boria Tibbu Iron Ore Mines, Village Boria, Tehsil Manpur, District Rajnandgaon (C.G.) Mob. No. 7004502568
6	Salient Features	Iron Ore Captive Mining, Crushing & Screening
	a. of the project	Area: 110 ha. Highest Latitude- 595 Meter Lowest Latitude- 445 Meter Average Ground RL- 520 Meter
	b. of the environmental management plans	<ol style="list-style-type: none"> 1. Solid waste management <ul style="list-style-type: none"> • Dumping of OB at Designated places • Proper terracing of OB Dumps 2. Existing land use planning 3. Afforestation and landscape development 4. Air Pollution and Measure and Control <ul style="list-style-type: none"> • Wet drilling at mines • Regular water sprinkling at mines, haul roads, crushing & screening plant, dispatch road etc. 5. Water Pollution Control <ul style="list-style-type: none"> • Water harvesting is being done through recharge pond, settling ponds etc.. • Retaining walls and garland drains have been provided at the toe of Dumps and also along the haul roads etc.

		<ul style="list-style-type: none"> Series of Settling pond inter-connected with garland drains have been provided to arrest total suspended solids. <p>6. Noise Pollution measure by taking average day/night reading and providing ear muff where ever applicable.</p> <p>7. Control blasting is being done and NONEL are being used to keep the maximum charge per delay to a minimum for keeping the ground vibration level i.e. PPV within the permissible limit. There is no fly rocks.</p> <p>8. Periodical health camps are being organized for employees</p> <p>Socio-economic measures have been undertaken by providing 90% employment to local people</p>				
7	Break-up of the project area					
	a. Submergence Area: Forest & Non-Forest	Total Project Area : 110.00 Ha., Forest Area : 110 ha, Non Forest Area : Nil Area under Excavation : 16.970 Ha				
	b. Other	OB Dump : 52.057 Ha Mineral Storage Area : 2.150 ha				
	c. Total Plot Area	-				
	d. Built-up Area (Including Road)	Infrastructure : 1.901 ha Roads : 5.414 ha Mineral Processing Area ; 1.081 ha Total Built up area : 8.395 Ha				
	e. Open Space available	Unutilized Area : 30.427 Ha				
	f. Green belt area	4.918 Ha				
8	Break-up of the Project affected population with enumeration of those losing houses/dwelling units only, agricultural land only, Both dwelling units & agricultural land and landless laborers/artisans. a. SC, ST/Adivasis b. Others	N/A				
9	Financial Details					
	a. Project cost as originally planned and subsequent revised estimates and the year of price reference					
	b. Allocations made for environmental management plans with item wise and year-wise breakup.	An amount of Rs. 114.19 Lakh has been spent towards Environmental Protection from Apr, 22 to Mar, 23. The details are as below:				
		<table border="1"> <thead> <tr> <th>Description</th> <th>Amount (Rs in Lakh)</th> </tr> </thead> <tbody> <tr> <td>Potable (Core/ Buffer Zone) and Dust</td> <td>4.85</td> </tr> </tbody> </table>	Description	Amount (Rs in Lakh)	Potable (Core/ Buffer Zone) and Dust	4.85
Description	Amount (Rs in Lakh)					
Potable (Core/ Buffer Zone) and Dust	4.85					

		Suppression	
		Manpower for Housekeeping, road repairing/Maintenance, Drain cleaning	73.54
		Occupational Health	35.80
		Total	114.19
	c. Benefit cost ratio/ Internal Rate of Return and the year of assessment	N/A	
	d. Whether c, includes the cost of environmental management as shown in the above	N/A	
	e. Actual expenditure incurred on the project so far	Rs. 8172.60 Lakh (as on 30.09.2022)	
	f. Actual expenditure incurred on the environmental management plan so far	Rs. 341.17 Lakh [up to FY 2022- 23]	
10	Forest land requirement		
	a. The status of approval for diversion of forest land for non-forestry use.	Forest Clearance obtained vide letter no. F.No. 8-20/2006-FC dated 25/03/2009.	
	b. The status of clearing felling.	In 50 Ha – FC No. 536 and 60 Ha – Forest Compartment No. 535, tree felling is completed.	
	c. The status of compensatory afforestation, if any	The cost of compensatory afforestation has already been deposited with Forest Department.	
11	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information required.	NA	
12	Status of construction (Actual &/or Planned)		
	a. Date of commencement (Actual &/or Planned)	2010	
	b. Date of Completion (Actual &/or Planned)	Mining activities started in 2014	
13	Reasons for the delay if the project is yet to start.	N.A.	
14	Dates of site visits		
	a) The dates on which the project was monitored by Regional Office on previous occasions, if any	18.07.2015	
	b) Date of site visit for this monitoring Report.	-	
15	Details of correspondence with project authorities for obtaining	Given as below:	

action plans/ information on status of compliance to safeguards other than the routine letters for logistic support for site visits.	Date	Letter from RO	Date / GPIL Letter date	Reply from PA
	05.03.07	Work status and compliance called	06.04.07	Compliance report submitted
	-	-	26.04.07	Status and compliance submitted.
	11.05.07	Compliance, consent and data sheet called	-	-
	02.01.08	Present status and compliance called	11.01.08	Consent submitted
	13.02.08	Present status and compliance called	28.02.08	Consent submitted
	09.05.08	Present status and compliance called	20.05.08	Data sheet submitted
	24.06.08	Present status and compliance called	07.07.08	Copy of presentation and details of public hearing submitted
	-	-	29.11.14	Half yearly compliance report submitted
	-	-	06.15	Half yearly compliance report submitted
	-	-	25.11.15	Half yearly compliance report submitted
	-	-	14.06.16	Half yearly compliance report submitted
	-	-	26.12.16	Half yearly compliance report submitted
	-	-	06.06.17	Half yearly compliance report submitted
	-	-	23.12.17	Half yearly compliance report submitted
	-	-	14.06.18	Half yearly compliance report submitted
	-	-	31.12.18	Half yearly compliance report submitted
	-	-	31.05.19	Half yearly compliance report submitted
	-	-	30.12.19	Half yearly compliance report submitted
	-	-	27.06.20	Half yearly compliance report submitted
-	-	25.11.20	Half yearly compliance report submitted	

		-	-	01.06.2021	Half yearly compliance report submitted
		-	-	01.12.2021	Half yearly compliance report submitted
		-	-	15.07.2022	Half yearly compliance report for the period of Oct, 21 to Mar, 22 uploaded online in MoEF & CC portal
		-	-	07.01.2023	Half yearly compliance report for the period of Apr, 22 to Sept, 22 uploaded online in MoEF & CC portal

Sanya

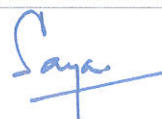
PART-II

POINT WISE COMPLIANCE STATUS

SUBJECT : Boria Tibbu Iron Ore mine of M/s Godawari Power and Ispat Ltd at village Boria Tibbu, Tehsil Mohala in district Rajnandgaon in Chhattisgarh.

REFERENCE : EC letter vide no. J-11015/208/2006-IA II(M) dated 31.01.2007.

S. NO.	EC CONDITIONS	COMPLIANCE STATUS AS ON 31.03.2023
A. SPECIFIC CONDITIONS		
(i)	Top soil shall be stacked properly with proper slope with adequate safeguards and shall be back filled for reclamation and rehabilitation of mined out area.	At present top soil generation is nil. However, topsoil generated in future will be stacked separately for plantation purpose. OB generated during mining is being stacked at earmarked places.
(ii)	Over burden shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 20 mt. each stage shall preferably be of 10 m and over all slope of the dump shall not exceed 28°. The mine pit area shall be reclaimed by back filling the OB in a phased manner. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly bases.	<p>The Over Burden (OB) generated during mining operation is being dumped at earmarked dump site and phase-wise stabilization of OB dump is under process.</p> <p>Height and width of individual terraces of dumps are being maintained as per approved Review of Mining Plan.</p> <p>Plantation of local species and teak has been carried out in inactive terraces of OB Dumps.</p> <p>The half yearly EC compliance Report is being submitted regularly to the Ministry of Environment & Forests and its Regional Office, Raipur.</p>
(iii)	Garland drains shall be constructed to arrest silt and sediment flows from soil and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted particularly after monsoon and maintained properly. Garland drains (size, gradient and length) shall be constructed for both mine pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above	<p>Garland drains around OB dumps and mineral dumps have been already constructed with siltation ponds to arrest the silts and sediments of surface run off.</p> <p>The collected surface runoff water is being utilized for dust suppression of mining area and green belt development.</p> <p>Drains & siltation ponds are being cleaned and maintained regularly.</p> <p>Garland drains around mine pit are being constructed for maximum discharge of rainfall</p>



	peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at corners of the garland drains and de-silted at regular intervals.	in the adjoining areas. Well drainage system has been provided separately for discharge of storm water.
(iv)	Drilling and blasting shall be by using dust extractors / wet drilling.	Wet drilling and/or drills fitted with dust extractors have been deployed at mines.
(v)	Plantation shall be raised in an area of 75.10 ha including green belt of adequate width by planting the native species around the ML area, roads, OB dump sites etc. in consultation with the local DFO /Agriculture Department. The density of the trees shall be around 2500 plants per ha.	A greenbelt of native species is being developed, total 34526 nos. of saplings have been planted, covering an area of 13.81 ha. inside the mining lease area. In addition to above, 15500 nos. of saplings have been planted outside/ road side areas of the mining lease area.
(vi)	The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground water Board.	5 nos. of Settling ponds have been constructed to recharge ground water. Further water collected in mine sump during rainy season also acts as recharge pit for mines.
(vii)	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) an winter (January) and the data thus collected may be sent regularly to MoEF, Central Ground Water Authority and Regional Director Central Ground Water Board.	Monitoring of ground water level & quality is being carried out regularly. One no. of piezometer along with three nos. of flow meters have already been installed at the mines. The reports are enclosed as Annexure – I.
(viii)	Prior permission from the competent authority shall be obtained for drawl of ground water, if any.	NOC for withdrawal of ground water has been obtained from Central Ground Water Authority.
(ix)	Vehicular emission shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	PUC of all earth moving equipments and transport vehicles are being checked regularly to check vehicular emission. Further, emission level is kept under control by rigorous maintenance of all engines.
(x)	A final Mine closure plan, along with details	Presently mine is operational since FY 2014.

	of corpus fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closures for approval.	Upon approval of the Final Mine Closure Plan by Indian Bureau of Mines, the approved Final Mine Closure Plan will be submitted to MoEF & CC.
	B. GENERAL CONDITIONS	
i	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.	Agreed, Undertaking submitted.
ii	No change in the calendar plan including excavation, quantum of mineral iron ore shall be made.	Agreed, Undertaking submitted.
iii	Conservation measures for protection of flora and fauna in the core & buffer zone shall be drawn up in consultation with the local forests and wildlife department.	As per the advice of Forest Department, we have provided vehicles, watchman and infrastructural facility as measures to protect Flora & Fauna in core & buffer zone.
iv	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for RPM,SPM,SO ₂ ,NO _X monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency should be undertaken in consultation with the State Pollution Control Board.	Four ambient air quality monitoring stations have been established in the core zone as well as in the buffer zone for measurement of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x . Summarized Env. Monitoring data is enclosed as Annexure – I .
v	Data on ambient air quality (RPM,SPM,SO ₂ ,NO _X) should be regularly submitted to the Ministry including its Regional office located at Bhopal and the state pollution control Board/Central pollution Control Board once in six month.	The Ambient Air Quality Monitoring is being carried out and reports are being submitted regularly to Regional Office, CECB, Bhilai-Durg. Summarized Environmental Monitoring data is enclosed as Annexure – I .
vi	Fugitive dust emission from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.	Continuous water sprinkling is being carried out through water tankers on haul roads and other dust generating points and areas. Water sprinkling through nozzles is done at various dust generation points.
vii	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with earplugs/ muffs.	Control measures such as maintenance of all machines including checking of silencers on regular basis, installing immovable machinery on foundations and closed rooms are being provided.
viii	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E)	There is no existence of workshop, hence no need of Oil & grease trap as all mining machinery is being deployed on contractual basis and repairing & maintenance of the same

	dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent.	are being carried outside.										
ix	Personal working in dusty areas shall wear protective respiratory devices and they shall be provided with adequate training and information on safety and health aspects.	PPE's like dust mask, gloves, goggles, ear plugs, helmet, safety shoe etc have been provided to mine workers. Safety Awareness Training & Information on health hazards are provided to all workmen.										
x	Occupational health surveillance program of the workers shall be undertaken periodically to observe any contraction due to exposure to dust and take corrective measures, if needed.	Periodical medical examination of total 687 workmen has been done in the current Financial Year.										
xi	A separate environmental management cell with suitable qualified personal shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	We are having an Environment Cell with qualified technical persons to carry out various Environment functions. We are having laboratory facility.										
xii	The project authorities shall inform to the regional office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	This has already been complied.										
xiii	The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bhopal.	An amount of Rs. 114.19 Lakh has been spent towards Environmental Protection from Apr, 22 to Mar, 23. The details are as below: <table border="1" data-bbox="853 1265 1436 1702"> <thead> <tr> <th>Description</th> <th>Amount (Rs in Lakh)</th> </tr> </thead> <tbody> <tr> <td>Dust Suppression</td> <td>4.85</td> </tr> <tr> <td>Manpower for Housekeeping, road repairing/Maintenance, Drain cleaning</td> <td>73.54</td> </tr> <tr> <td>Occupational Health</td> <td>35.80</td> </tr> <tr> <td>Total</td> <td>114.19</td> </tr> </tbody> </table>	Description	Amount (Rs in Lakh)	Dust Suppression	4.85	Manpower for Housekeeping, road repairing/Maintenance, Drain cleaning	73.54	Occupational Health	35.80	Total	114.19
Description	Amount (Rs in Lakh)											
Dust Suppression	4.85											
Manpower for Housekeeping, road repairing/Maintenance, Drain cleaning	73.54											
Occupational Health	35.80											
Total	114.19											
xiv	The regional office of this ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional office by furnishing the requisite data/information/ monitoring reports.	All requisite data/information/monitoring reports are being provided during their visit.										
xv	A copy of clearance letter will be marked to concerned panchayat/local NGO, if any from	This has already been complied.										

	whom suggestion /representation has been received while processing the proposal.	
xvi	State pollution control board should display a copy of the clearance letter at the regional office district industry center and collector's office/Tehsildar's office for 30 days.	This has already been complied.
xvii	The project authority should advertised at least in two local news papers widely circulated one of which shall be in the vernacular language of the locality concerned, within seven days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of Ministry of Environment of Forests at http://envfor.nic.in and copy of the same shall be forwarded to the regional office of this ministry located Bhopal.	This has already been complied. Copy of environment clearance letter has been published in two local news paper and is available with SPCB and also at website of MoEF & CC.

Sayani

**SUPPORTING DOCUMENTS
INCLUDE AS
ANNEXURES**

AMBIENT AIR QUALITY MONITORING REPORT

(Oct, 22 to Mar, 23)

SN	Location	Parameter	Result ($\mu\text{g}/\text{m}^3$)					
			Oct, 22	Nov, 22	Dec, 22	Jan, 23	Feb, 23	Mar, 23
Core Zone								
1	Near QC Lab (South-West)	PM10 ($\mu\text{g}/\text{m}^3$)	50.70	57.30	50.60	56.30	51.70	53.70
		PM2.5 ($\mu\text{g}/\text{m}^3$)	20.60	24.60	21.30	24.70	20.90	22.40
		SO ₂ ($\mu\text{g}/\text{m}^3$)	10.70	12.50	10.60	11.30	10.40	11.40
		NOx ($\mu\text{g}/\text{m}^3$)	8.50	10.00	8.50	9.40	8.20	9.50
2	Near Work Face (North)	PM10 ($\mu\text{g}/\text{m}^3$)	52.30	48.00	46.70	48.40	45.60	51.40
		PM2.5 ($\mu\text{g}/\text{m}^3$)	21.70	20.40	18.90	20.30	18.20	20.40
		SO ₂ ($\mu\text{g}/\text{m}^3$)	11.30	10.60	9.50	10.20	9.90	12.40
		NOx ($\mu\text{g}/\text{m}^3$)	9.40	8.50	7.30	8.50	7.30	10.20
Buffer Zone								
3	Village-Dhulki (E)	PM10 ($\mu\text{g}/\text{m}^3$)	45.60	36.20	40.60	44.20	48.30	49.50
		PM2.5 ($\mu\text{g}/\text{m}^3$)	18.50	15.70	16.00	18.50	22.60	25.60
		SO ₂ ($\mu\text{g}/\text{m}^3$)	9.60	8.20	10.80	12.80	14.60	12.10
		NOx ($\mu\text{g}/\text{m}^3$)	7.20	6.50	9.20	10.60	12.50	13.10
4	Village-Rasuli (SE)	PM10 ($\mu\text{g}/\text{m}^3$)	47.30	40.20	38.50	41.90	45.60	45.60
		PM2.5 ($\mu\text{g}/\text{m}^3$)	16.20	17.60	15.30	17.30	21.90	21.90
		SO ₂ ($\mu\text{g}/\text{m}^3$)	8.20	9.20	8.50	11.50	13.00	13.00
		NOx ($\mu\text{g}/\text{m}^3$)	6.00	7.10	7.00	9.60	11.40	9.80

S. S. S.

GROUND WATER ANALYSIS REPORT

(Oct, 22 to Mar, 23)

SN	Parameters	Limit as per IS 10500: 2012		Oct - 22		Nov - 22		Dec - 22		Jan - 23		Feb - 23		Mar - 23		Analysis Methods
		Acceptable Limit	Permissible limit	Vill-Boria	Vill-Dhulki	Vill-Boria	Vill-Dhulki	Vill-Boria	Vill-Dhulki	Vill-Boria	Vill-Dhulki	Vill-Boria	Vill-Dhulki	Vill-Boria	Vill-Dhulki	
PHYSICAL ANALYSIS																
1	Colour	5	15	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	IS:3025 (4)
2	Odour	Agreeable	Agreeable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	IS:3025 (5)
3	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (7)
4	Turbidity	1	5	0.7	0.6	0.6	0.5	0.8	0.6	0.7	0.8	0.5	0.6	0.7	0.8	IS:3025 (8)
5	Dissolved solids mg/l	500	2000	390	405	345	370	372	389	395	410	374	380	360	365	IS:3025 (16)

[Signature]

CHEMICAL ANALYSIS

6	pH Value	6.5 - 8.5	No relaxation	7.48	7.6	7.31	7.50	7.4	7.56	7.7	7.26	7.48	7.24	7.42	IS:3025 (11)
7	Hardness (T) CaCO ₃ mg/l	200	600	136	128	120	118	136	148	156	130	142	136	140	IS:3025 (21)
8	Calcium (Ca) mg/l	75	200	38	42	26	22	30	28	32	30	26	26	30	IS:3025 (40)
9	Magnesium (Mg) mg/l	30	100	14	28	14	10	17	16	20	12	14	14	12	IS:3025 (46)
10	Iron (Fe) mg/l	0.3	No relaxation	0.17	0.21	16	0.13	0.19	0.18	0.2	0.15	0.18	0.16	0.18	IS:3025 (43)
11	Chloride (Cl) mg/l	250	1000	22	26	12	8	16	12	18	20	16	16	12	IS:3025 (32)
12	Free Residual Chlorine	0.2	1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	IS:3025 (53)
13	Lead (as Pb) mg/l	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IS:3025 (47)
14	Manganese (as Mn) mg/l	0.1	0.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	APHA-3111B

BIOLOGICAL ANALYSIS

15	E. Coli (Bacteria count)	0/100ml	0/100ml	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	IS:1622:1981
----	-----------------------------	---------	---------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	--------------

Seena

GROUND WATER LEVEL MONITORING REPORT
(OCT, 22 to MARCH, 23)

SN	Location of Well	Ground Water Level (mbgl)	
		Oct, 22	March, 23
1	Boria Tibbu	4.2	9.7
2	Dulki Village	3.2	8.4
3	Khargaon	5.5	7.9
4	Boria Moksia	8.1	10.7

Sanya
—