

Let.No.: JPL/GP-IV/1/2022-23 - 108

To,

Date:28th November,2022

Regional Director Ministry of Environment and Forest Regional Office (WCZ), Ground Floor East Wing, New Secretariat Building, Civil Lines, Nagpur-440001

Sub: Compliance Status of Environmental Clearance of Gare Palma IV/1 Coal Mine

Ref: Environmental Clearance No.J-11015/81/2008.IA.II (M) dated 28.10.2021

Dear Sir,

Please find enclosed herewith the duly filled compliance status for the period 01.04.2022 to 30.09.2022 of Gare Palma IV/1 Coal Mine of M/s Jindal Power ltd, Dongamahua as per the EC granted vide your letter No.J-11015/81/2008.IA.II (M) dated 28.10.2021. Further, it is to be noted that as the mines stated on 23rd Feb 2022 the reports are submitted in line with the mine opening.

Enclosure:

Annexures enclosed for the compliance are given below.

- 1. Ground Water Level
- 2. Water quality
- 3. CSR Expenditure
- 4. Air quality report by the third party
- 5. Monitoring report (Six Months)

Thanking you

Yours Sincerely

Oran Porkash

Om Prakash EVP & Agent

GP IV/1 Coal Mines, Jindal Power Ltd

CC:

Integrated Regional Office (IRO)

Aranya Bhawan, North Block, Sector-19 Naya Raipur, Atal Nagar Chhattisgarh-492002

The Member Secretary

Chhattisgarh Environment Conservation Board Naya Raipur, Atal Nagar Chhattisgarh, 492099, (CG)

The Zonal Officer

Central Pollution Control Board 3rd floor, Sahkar Bhawan, North T.T Nagar, Bhopal-462003

Jindal Power Limited

CIN No.: U04010CT1995PLC008985

Corporate Office Jindal Centre, 12 Bhikaiji Cama Place, New Delhi 110 066

T+91 11 4146 2000 F+91 11 2616 1271 Finfo@jindalpower.com ₩ www.jindalpower.com

Registered Office Tamnar 496 107, District Raigarh, Chhattisgarh

The compliance status of conditions of Environmental Clearance (No.J-11015/81/2008.IA.II (M) dated 28.10.2021) granted to Gare IV/1 Open Cast Coal Mines for period 01.04.2022 to 30.09.2022

S.no	Condition	Compliance
1	Any change in the scope of work will attract provisions of the environment act,1986 and Environment Impact Assessment Notification, 2006 in conjunction with the subsequent amendments/circulars	No Change has been done. Noted for future compliance.
ii.	All the conditions stipulated in shall remain unchanged.	Agreed. Compliance to the EC letter No. J 11015/81/2008.IA.II dated 21 st May, 2012 is given below.
fiii.	The successful bidders shall be liable, if any, for any act of violation of EPA 1986/EIA Notification 2006/Subsequent amendments and circulars.	It may be noted that the condition is in contravention of the prevalent law and an application for seeking EC amendment for deletion of the said condition is being submitted to MoEF&CC.
lv	Successful bidder shall be liable for compliance of all court conditions, if any.	Noted for future Compliance.

Compliance status of conditions stipulated in EC letter No. J 11015/81/2008.IA.II dated 21.5.2012

S.no	Condition	Compliance
A.	Specific conditions :	
(i)	Maximum production from the mine shall not exceed 6 MTPA and the washery capacity of Washery-II shall not exceed 3.2 MTPA without prior environmental clearance. The clean coal, middling and rejects from Gare IV/1 shall be utilized in accordance with MOC Allocation Letter for Gare IV/1.	Coal production from the mine has started from 2 nd March, 2022 after obtaining necessary statutory permissions. Production for the FY 2022-23 upto
(ii)	The diverted stretch of the Bendra Nala shall be strengthened and grouting of weak portions of the embankment to protect the mine from flooding. The slope of the embankment towards the river shall be at least 1:3 for stability and shall be stabilized with plantation using native species selected from the study area.	Bendra Nala has been strengthened and grouted in weak portions of the embankment to protect the mine
(iii)	Topsoil shall be stored in the earmarked area and used within a year of its generation for green belt development and for plantation/reclamation.	During this period topsoil excavated are used for
(iv)	No external OB dump shall be created for the expansion project. Monitoring and	Noted for compliance.

	management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional office located at Bhopal on yearly basis	Timely monitoring and proper management of existing dumps will ensure the stability of reclaimed dumpsites. More plants will be planted above these dumps
(vi)	Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall 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.	Noted for compliance. The garland drains have been constructed for running parallel to foot of the dumps. This shall be used for collecting, cleaning and channelizing the runoff water to receive settling pond. All the mine water will be generated from seepage is utilized in following applications. 1. Dust suppressions on haul road & 2. Irrigation of green belts/greenery. Multiple settling ponds at different distances along the length of drain has been made to allow settling of suspended solids present in runoff water. There will be no process water discharge from the mines.
(vii)	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.	Noted for compliance JPL has started mining operations from 23 rd February, 2022. The retaining wall at the Toe of Dump and overburden benches will be suitably designed to check run-off and siltation.
(viii)	Crushers at the CHP shall be operated with high efficiency bag filters/water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system which shall be closed, haulage roads, transfer points, etc.	Complied Agglomerative dust suppression (ADS) has been installed at all belt conveyors, transfer points, junction points, crushers, screens, and ground hoppers to control Fugitive dust. Mobile water sprinkling system has been arranged for haul road and coal transportation roads for dust suppression.
(ix)	Drills shall be wet operated only.	Complied Wet operated drills are deployed for drilling.
(x)	Controlled blasting shall be practiced with the use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	Complied Controlled blasting is being practiced with use of delay detonators and only conducted during daytime. a. We are adopting sequential blasting system to control the vibration. b. The mitigative measures for control of ground vibration are in place. Ground vibration is measured by vibrometer on regular basis.

		c. Personal protective Equipment like Earplugs and ear muff are provided to the workers working in noisy areas.
(xi)	The Washery-II shall be a zero-discharge facility and no wastewater shall be discharged from the washery into the drains/natural watercourses. No groundwater shall be used for washery operations. Recycled water shall be used for development and maintenance of the green belt and in the plant operations.	Presently, the washery is not in operation and zero discharge will be ensured while running the washery.
(xii)	The raw coal, washed coal and middling and coal wastes (rejects) shall be stacked properly at earmarked site(s) within sheds/stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored minerals do not catch fire. The storage period shall be not more than 2-3 days.	Noted for Compliance Presently, the washery is not in operation. Raw coal is being is being stacked properly at the earmarked site. Adequate measures will be taken to ensure that the stored minerals do not catch fire. The storage period for not more than 2-3 days is being maintained.
(xiii)	The proponent shall maintain proper records of the ash content of raw (ROM) coal, clean coal, middling and coal rejects along with quantum of raw coal obtained and washed and dispatched every month and the same shall be uploaded on the company website every month	Noted for Compliance Presently, the washery is not in operation. Proper records of the ash content and quantum of raw (ROM) coal dispatched every month are being maintained.
(xiv)	All internal roads shall be concreted or black topped and the approach roads used for the project shall be blacked topped. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.	Complied All internal roads are concreted/blacktopped inside the CHP/washery area. Approach roads to the mine are also black topped. The parking space is also provided and maintained.
(xv)	Roads used for coal transportation to the linked DRI/TPP shall be developed with 3-tier avenue plantation using a mix of native species. The trucks used for coal transportation shall be high capacity trucks. Drivers of trucks for coal transportation shall be engaged based on past records of road safety and compliance of safety regulations and shall be suitably sensitized about road safety and maintenance of vehicles to keep vehicular emissions to be within prescribed limits.	Noted for compliance. Roads used for coal transportation to the TPP is being developed with 3-tier avenue plantation using a mix of native species. The trucks used for coal transportation are high capacity trucks. Drivers of trucks for coal transportation are regularly sensitized about the road safety rules and regulations. All vehicles used in the mine are having valid PUC certificate.
(xvi)	The roads (internal/approach/and roads used for the project) shall be regularly	Noted for compliance.

(xvii)	cleaned with mechanical sweepers and with water sprinklers. A 3-tier avenue plantation shall be developed along the major approach roads, internal roads and nearby roads used by the company. Green belt shall be developed along the areas such as the washery unit, crushing unit, and stockyards and at transfer points and in between mine operations and habitations.	All internal roads and approach roads are regularly cleaned. Fog canon is employed for water sprinkling of the roads. Avenue plantation along the road has been undertaken and will be continued in the monsoon season. Noted for compliance. Existing green belt in areas such as Washery unit, crushing unit and stockyards, transfer points, etc. will be strengthened by undertaking gap plantation.
(xviii)	Hoppers of the coal crushing unit at the crushing shed and washery unit shall be fitted with high efficiency bag filters/Dust extractors and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of belt conveyor systems which shall be closed and from transportation roads.	Noted for Compliance Agglomerative dust suppression (ADS) will be installed at all belt conveyors, transfer points, junction points, crushers, screen and ground hoppers to control Fugitive dust. Water sprinkling arrangements have been made for haul road and coal transportation roads using water tanker and water sprinklers (rain gun).
(xix)	The proponent shall ensure that coal such as stones, shale and other wastes of an ash content of 77% or more only shall dumped into the mine voids. Coal rejects with an ash content of 76% or less shall be fully utilised for power generation in linked TPP.	Noted for Compliance Stones, shale and other wastes from mining with an ash content of 77% or more will be dumped into the mine voids. Coal rejects with an ash content of 76% or less will be utilized for power generation to the maximum extent possible.
(xx)	An estimated 18.832 Mm3 of fly ash generated from the 4x 150 MW pit head TPS proposed to be dumped in the mine void shall be accommodated in alternate layers of flyash and OB in the ratio of 25:75 after the initial row of OB of not less than 15m thickness as per DGMS recommendation to prevent dump failures.	Noted for compliance.
(xxi)	Continuous monitoring of long-term impacts of dumping of flyash (for life of the mine) and leaching of heavy metals on soil and water quality of the study area shall be undertaken and the details of which shall be submitted to the Central Ground Water Board, SPCB and to the Regional Office of this Ministry at Bhopal as part of the compliance report. Permanent monitoring arrangements such as peizometers shall be	Noted for compliance.

established in and around the mine area covering the potential impact zone for contamination of heavy metals such as Hg, Cd, Cr., Se, etc due to leachates from the flyash and in case of increasing levels of heavy metals detected in the groundwater, further dumping of flyash shall be stopped immediately.Independent Third-Party monitoring of the impacts of dumping of flyash shall also be undertaken reported to the regulatory authorities and uploaded on the company website. In case disposal of flyash into the decoaled voids is not found to be an environmentally suitable option, the balance void shall be converted into a water reservoir of a max. depth of 35m and shall be gently sloped and the upper benches of the reservoir shall be stabilised with plantation and the periphery of the reservoir fenced. Water quality monitoring of the water reservoir shall be undertaken. Regular monitoring of groundwater level Noted for compliance. and quality including levels of heavy metals The water table is being regularly monitored using such as Hg, Cd, Cr, Se, etc shall be carried piezometers installed in core and buffer zone at the out by establishing a network of existing required frequency. wells and construction of new piezometers. The monitoring for quantity and quality of Groundwater quality is being monitored by the groundwater as per IS:10500 shall be done MoEF&CC recognized laboratory M/s Ultimate four times a year in the pre-monsoon Envirolytical Solutions. (May), monsoon (August), post-monsoon (November), and winter (January) seasons. Report of the ground water level is attached as Proper records of the data thus collected Annexure-1 and report of the quality of the shall be maintained and submitted to the groundwater is attached as Annexure-2. Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring. As the entire mine water is proposed to be Noted for compliance. used for the mine-cum-washery operations, measures shall be taken for recharging ground water in and around the mine in the study area. A Plan for water conservation and recharge measures of ground water along with budgetary provisions be prepared and implemented in consultation with the Central/State Ground Water Board to mitigate the adverse impact of mining which may lead to depletion of ground

(xxii)

(xxiii)

water in the area. The Company shall put

	up artificial groundwater recharge	
	measures for augmentation of	
	groundwater resource in case monitoring	
	of groundwater levels indicate decline of	
	water table. Any additional water	
	requirement for mining operation shall be	
	met from rainwater use only. The project authorities shall meet water requirement	
	of nearby village(s) in case the village wells go dry due to dewatering of mine.	
(xxiv)	ETP shall also be provided for treatment of	Noted for compliance.
. ,	effluents from workshop, CHP and an STP	
	shall be provided in the colony and the	There is well established oil and grease trap at the work
	treated effluents shall be used for green	shop. A STP off 500 KLD has been constructed and being
	belt development. Outflow of rainfall, if	fully operational.
	any, from the mine shall meet prescribed	,
	norms and the water quality of such	
	discharge including levels of heavy metals	
	such as Hg, Cd, Cr, Se, etc shall be	
	monitored at the exit points and records	
	maintained there of and also uploaded on	
	the company website. Online monitoring	
	equipment shall be installed by the	
	proponent to ensure that the water quality	
	parameters of mine water discharge are	
	well within the General Discharge	
	Standards under EP, Rules, 1986.	
(xxv)	An afforestation plan covering an area not	Noted for compliance.
	less than 699.64 ha shall be implemented,	In 2022 planted 74125 species in the backfilled area and
	which includes reclaimed external dump	as gap filling with native species like Sal, Sisam, Neem,
	(70.36 ha), backfilled area (591.11 ha),	Arjun, Mango, Amla, Bel, Arjun, Jack fruit, jamun, Harda,
	along ML boundary, green belt (30.17 ha),	Behra etc,
	along roads and infrastructure,	
	undisturbed/vacant land (8 ha) by planting	
	native species such as Sal, Tendu, Mahua,	
	etc in consultation with the local DFO /	
	Agriculture Department/institution with	
	the relevant discipline. The density of the	
	trees shall be around 2500 plants per ha.	
(xxvi)	Of the total excavated area of 718.79 ha, an	Noted for compliance.
	area of 699.64 ha shall be backfilled and	In 2022 planted 74125 species in the backfilled area and
	reclaimed with plantation / afforestation by	as gap filling with native species like Sal, Sisam, Mango,
	planting native plant species in consultation	Amla, Bel, Arjun, jamun, Harda , Bahara etc,
	with the local DFO/Agriculture Department.	All
	The density of the trees shall be around	
	2500 plants per ha. The balance 127.65 ha	
	of de-coaled quarry area being left as a	
	water body of a max. depth of 161m shall	
	be gently sloped and stabilised and	
	De gentry stoped and stabilised and	

(xxvii)	A Wildlife Conservation Plan for	Complied
(XXVII)	1 Co. Samurations of Continuous and	Complied.
	conservation and protection of elephants in	Conservation measures for protection of flora and fauna
	the study area prepared for a cost of Rs	in the core & buffer zone drawn on the basis of wild life
	454.75 lakhs shall be implemented in	conservation plan for the area has been prepared. Same
	consultation with Departments of Forest	has been approved by CWLW vide letter dated
	and Wildlife, Govt. of Chhattisgarh. The	10.6.2011.
	WLCP shall comprise of components of	The wild life conservation plan was revised based on the
	habitat improvement and conservation of	revised rate of 2022 and approved by PCCF vide letter
	biodiversity, provision of water holes, and	No142 dated 23.8.2022 and the differential amount of
	augmenting water bodies, nursery and	Rs1.3045 crores was deposited.
	plantation of species of natural food and	NSI.3043 Crores was deposited.
	fodder found in the natural habitat, salt	
	licks, measures for protection against forest	
	fires and poaching, awareness campaign of	
	villagers in the study area and	
	compensation in case of man-animal	
	conflicts. The status of implementation of	
	the WL Conservation Plan including	
	budgetary provisions of various activities	
	and status of expenditure shall be regularly	
	uploaded on the website of the Forest and	
	Wildlife Departments of Govt. of	
	Chhattisgarh and of the project proponent	
	and the status shall be regularly reported	
	to this Ministry and the MOEF Regional	
	The state of the s	
/sandii)	Office, as part of the compliance report.	No. 1. Company
(xxviii)	The project authorities shall also participate	Noted for compliance.
	in a Regional Action Plan of the State	
	Government for conservation of flora and	
	fauna found within the study area, in	
	addition to the above funds shall also	
	contribute financially for implementation of	
	the RWLCP. Habitat development such as	
	grasslands/conservation measures along	
	the migratory route/habitats of elephants	
	found/visiting the area shall form a part of	
	the Regional Action Plan.	
(xxix)	Besides carrying out regular periodic health	Noted for compliance.
118.1. July 119.1. 4/1	check up of their workers, 10% of the	Schoolse Seeks Seeks Seeks (Seeks) - Seeks (Se
	workers identified from workforce engaged	
	in active mining operations shall be	
	subjected to health check up for	
	occupational diseases and hearing	
	impairment, if any, through a recognised	
	agency found in the district, and the results	
	reported to this Ministry and to DGMS.	
(xxx)	For monitoring land use pattern and for	Noted for compliance.
(\\\\)	post mining land use, a time series of land	itoted for compilation
	use maps, based on satellite imagery (on a	
	scale of 1: 5000) of the core zone and	

	buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhopal.	
(xxxi)	Cost for additional environmental protection measures shall be not less than Rs 1080.28 lakhs (capital) and the annual recurring costs shall be not less than Rs. 295.43 lakhs. The status of implementation including costs incurred shall be regularly reported to this Ministry and the MOEF Regional Office, as part of the compliance report and also uploaded on the company website.	Noted for compliance.
(xxxi)	R&R Plan prepared for 113 households from villages Aamgaon (23), Nagramunda (52), Tapranga (21) and Dongamuha (17) and for 185 land losers for an estimated Rs. 798.248 lakhs shall be not less than the norms laid down/approval by the State Government and shall not be inferior than that in the National R&R Policy and shall be completed within a specified time-frame. R&R shall include specific income generation schemes and setting up of SHGs and cooperatives, and activities and assistance under the Tribal development Plan for the tribals being displaced and provision of annuities for the underprivileged sections. The R&R Colony for the 113 households being displaced shall be completed before the process of displacement commences and shall be provided with facilities not below the norms specified by the State Government. In addition, a Corpus Fund of Rs 1 crore/annum shall be provided for the maintenance of the Resettlement site. The status of the implementation of the R&R Plan along with financial status of the activities undertaken shall be uploaded on the company website and updated at least once in a year.	The state of the s
(xxxii)	A CSR Plan for 10 villages- 6 within the ML and 4 adjoining the ML are predominantly (96%) tribal and/or backward communities (SC/ST) with a budgetary provision of 3.728 crores and an additional Rs 2.88 crores for	Noted for Compliance. Details of CSR Activities is attached as Annexure-3

	tribal development as capital expenditure and a provision of Rs 5/T of coal as recurring expenditure shall be prepared and implemented for the balance life of the project. Details of village-wise activities under CSR along with the activities and budgetary provision shall be uploaded on the company website and the status of its implementation along with expenditure thereon and also desired that a Third-party audit of the implementation of CSR shall be done periodically.	
(xxxiii)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests five year before mine closure for approval. Habitat Restoration Plan of the mine area shall be carried out using a mix of native species found in the original ecosystem, which were conserved in-situ and ex-situ in an identified area within the lease for reintroduction in the mine during mine reclamation and at the post mining stage for habitat restoration and for development of grasslands.	Noted for compliance
(xxxiv)	Corporate Environment Responsibility: a) The Company shall have a well laid down Environment Policy approved by the Board of Directors. b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions. c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished. d) To have proper checks and balances, the company shall have a well laid down system of reporting of noncompliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.	Noted for compliance
В	General Conditions	
i	No change in mining technology and scope of working shall be made without prior	Noted

	approval of the Ministry of Environment and Forests.	
II	No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made	Noted for compliance.
III	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in PM10 and PM2.5 etc. shall be carried out at least once in a year.	Four ambient air quality monitoring stations are established in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, SO2 and NOx. Location of the stations have been decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in PM10 and PM2.5 etc. are being carried out at least once in a year. A CAAQMS has established at the Mines office in October, 2022.
iv	Data on ambient air quality (PM10, PM2.5, SO2, and NOx and heavy metals such as Hg, As, Ni, Cr, etc) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhopal, and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EP Rules, 1986 shall be furnished as part of the compliance report.	Noted for compliance. Report of ambient air quality from MoEF&CC recognized laboratory is attached as Annexure-4
V	Fugitive dust emissions (PM10, PM2.5, and heavy metals such as Hg, Pb, Cr, As, etc) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points shall be provided and properly maintained.	Noted for compliance. Water sprinkling arrangements have been made for haul road and coal transportation roads using water tankers and water sprinklers (rain gun). Fugitive emissions are being regularly monitored and records maintained.
vi	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	Noted for compliance. Adequate measures are being taken for control of noise levels well below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc have been provided with earplugs/muffs
vii	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st	Noted for compliance. Industrial wastewater (workshop and wastewater from the mine) is being properly collected and treated. Oil and grease trap has been installed.

	December 1993 or as amended from time	
	to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	
viii	Vehicular emissions shall be kept under control and regularly monitored.	Noted for compliance. Vehicular emissions are being kept under control and vehicles with valid PUC certificates are permitted to be used.
ix	Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	Noted for compliance. We have established well equipped laboratory for monitoring environmental parameters.
х	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	Noted for compliance
xi	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.	Noted for compliance. A full-fledged Environment Management cell has been established headed by a Sr. executive who reports to the head of the mine.
xii	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal.	Noted for compliance
xiii	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Noted for compliance
xiv	A copy will be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	Noted for compliance
XV	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Topsider's Office for 30	NA

	days.	
xvi	The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days 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 may also be seen at the website of the ministry of Environment & Forests at http://envfor.nic.in . The compliance status shall also be uploaded by the project authorities in their website and regularly updated at least once in six months so as to bring the same in the public domain. The data shall also be displayed at the entrance of the project premises and mines office and in corporate office.	

Annexure-1

	Piezometer	Monitoring Report								
	Month: May - 2022 & August - 2022									
	Water Lev	vel Distance (Mbgl)								
SI. No	Monitoring Location	May - 2022	August -2022							
P-1	NG colony Playground	16.65	13.75							
P-2	VTC office behind the site	13.47	13.40							
P-3	Near Brick plant	37.15	31.42							
P-4	Barrier No #1	52.97	51.86							
P-5	Near Temple	31.7	27.08							
P-6	Near Bendra nalla	19.41	15.65							
P-7	Pit - III (Nagaramunda Side)	16.82	11.16							





Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

TO, M/S JINDAL POWE GARE PALMA IV/1 VILLAGE: DONGA TEHSIL: TAMNAR	ER LIMITED, COAL MINE,	Report No Lab Ref No Date of Sampling Date of Receipt Date of Report	UES/TR/22-23/02957 UES/22-23/W/08119 24/08/2022 25/08/2022 31/08/2022	
(C.G.) 496107	•	Date of analysis	Start: 25/08/2022	End: 31/08/2022
		SAMPLE DETAILS		
Customer Sample Id /Sampling Location	DONGAMAHUA VILLAGE			
Sample Type	Drinking Water			
Packing Of Sample	Plastic Bottle (5.01tr.) Glass Bottle (1.01tr.)			
ple Collected By	Laboratory Chemist			
Sample Condition At Receipt	Ok			

REPORT NO.02957

SR.				AS PER	IS 10500:2012		
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT	
A.	Organoleptic &	Physic	al Parameters				
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1.0	
2	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable	
3	pH Value at 25.2°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.04	
4	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable	
ی	Turbidity	NTU	IS 3025: (Part-10)	1	5	1.48	
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	154.2	
В.	General Parame	ters Co	ncerning Substan	ces undesir	able in excessiv	re amounts	
1	Aluminium (as Al)	mg/L	IS 3025(part-55)	0.03	0.2	N.D.	
2	Ammonia (as total ammonia- N)	mg/L	IS 3025(part-34)	0.5	No Relaxation	N.D.	
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.	
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.	
5	Boron (as B)	mg/L	IS 3025: (Part-57)	0.5	1.0	N.D.	
6	Calcium (as	mg/L	IS 3025:(Part-40)	75	200	16.0	
7	Chloramines (as Cl ₂)	mg/L	IS 3025: (Part-26)	4.0	No Relaxation	N.D.	



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02957

0.5	SR. AS PER IS 10500:2012								
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT			
8	Chloride (as Cl)	mg/L	IS 3025: (Part-32)	250	1000	32.9			
9	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	N.D.			
10	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.14			
11	Free Residual Chlorine	mg/L	IS 3025: (Part-26)	0.2	1	N.D.			
12	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	N.D.			
13	Magnesium (as Mg)	mg/L	IS 3025: (Part-46)	30	100	9.72			
14	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	N.D.			
15	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5	No Relaxation	N.D.			
16	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	2.12			
17	Phenolic Compound (as C6H5OH)	mg/L	IS 3025(part-43)	0.001	0.002	N.D.			
18	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.			
19	Silver (as Ag)	mg/L	Annex J of IS 13428	0.1	No Relaxation	N.D.			
20	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	20.4			
7	Sulphide (as H ₂ S)	mg/L	IS 3025:(Part-29)	0.05	No Relaxation	N.D.			
22	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	20.0			
23	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	80.0			
24	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	N.D.			
C.	Parameters con	cerning	toxic substances	:-					
1	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.			
2	Cyanide (as CN)	mg/L	IS 3025(part-27)	0.05	No Relaxation	N.D.			
3	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.			
4	Mercury (as Hg)	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.			
5	Molybdenum (as Mo)	mg/L	IS 3025(part-2)	0.07	No Relaxation	N.D.			
6	Nickel (as Ni)	mg/L	IS 3025(part-54)	0.02	No Relaxation	N.D.			
7	Polychlorinate d biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.			



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02957

SR.				AS PER	IS 10500:2012	
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
8	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	АРНА 6440	0.0001	No Relaxation	N.D.
9	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
11	Trihalomethanes					
a)	Bromoform	mg/L	АРНА 6232	0.1	No Relaxation	N.D.
b)	Dibromochlorom ethane	mg/L	АРНА 6232	0.1	No Relaxation	N.D.
c)	Bromodichlorom ethane	mg/L	АРНА 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	АРНА 6232	0.2	No Relaxation	N.D.
D.	Pesticides:-					
1	Alpha HCH	μg/l	USEPA 508		0.01	N.D.
2	Beta HCH	μg/l	USEPA 508		0.04	N.D.
3	Delta HCH	μg/l	USEPA 508		0.04	N.D.
4	Alachlor	µg/l	USEPA 525.2, 507		20	N.D.
5	Aldrin / Dieldrin	μg/l	USEPA 508		0.03	N.D.
ú	Atrazine	μg/l	USEPA 525.2,8141 A		2	N.D.
7	Butachlor	μg/l	USEPA 525.2,8141 A		125	N.D.
8	Chlorpyriphos	μg/l	USEPA 525.2,8141 A		30	N.D.
9	DDT (o,p and p, p-Isomers of DDT, DDE and DDD)	µg/l	USEPA 508		1	N.D.
10	Gamma HCH	μg/l	USEPA 508	dian-	2	N.D.
11	2,4- Dichlorophenox yacetic Acid	μg/l	USEPA 515.1		30	N.D.
12	Endosulphan (alpha, beta and sulphate)	μg/l	USEPA 508		0.4	N.D.
13	Ethion	μg/l	USEPA 1657 A		3	N.D.
14	Isoproturon	µg/l	USEPA 532		9	N.D.
15	Malathion	µg/l	USEPA 8141 A		190	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02957

			TEST RE	PORT		
SR.	PARAMETER			AS PER IS 10500:2012		
NO.		UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
16	Methyl Parathion	µg/l	USEPA 8141 A			N.D.
17	Monocrotophos	μg/l	USEPA 8141 A	1		N.D.
18	Phorate	μg/l	USEPA 8141 A		2	N.D.
E.	Microbial Para	meters				
1	Total Coliform	MPN/1 00ml	IS:1622:1981:RA:20	HHIII - W	_	Absent
2	E. Coli	MPN/ 100ml	IS:1622:1981:RA: 2019		-	Absent

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

This is for information as the party has asked for above test(s) only.

For ULTIMATE ENVIROTYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

-End of the test report--

REVIEWED BY

31/08/22



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Cust TO,	omer	Report No	UES/TR/22-23/02956		
M/S JINDAL POWI	ER LIMITED.	Lab Ref No	UES/22-23/W/08118		
GARE PALMA IV/1		Date of Sampling	24/08/2022		
VILLAGE: DONGA		Date of Receipt	25/08/2022		
	, DISTRICT: RAIGARH,	Date of Report	31/08/2022		
(C.G.) 496107	, -iointoir itaioaiti,	Date of analysis	Start: 25/08/2022	End: 31/08/2022	
		SAMPLE DETAILS			
Customer Sample Id /Sampling Location	DHOURABHANTHA VILLAGE				
Sample Type	Drinking Water				
Packing Of Sample	Plastic Bottle (5.01tr.) Glass Bottle (1.0 ltr.)				
The Collected By	Laboratory Chemist				
Sample Condition At Receipt	Ok	The second secon	mediane		

REPORT NO.02956

SR.				AS PER		
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
A.	Organoleptic &	Physic	cal Parameters			
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1.0
2	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.2°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.06
4	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.64
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	234.6
В.	General Parame	eters Co	ncerning Substan	ces undesir	able in excessiv	re amounts
1	Aluminium (as Al)	mg/L	IS 3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia- N)	mg/L	IS 3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
4		/+	IS 3025:(Part-57)	0.5	1.0	N.D.
	Boron (as B)	mg/L				
4	Boron (as B) Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	28.0
4 5	Calcium (as		IS 3025:(Part-40) IS 3025:(Part-26)	75 4.0	200 No Relaxation	28.0 N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02956

0.5				AC DED	IS 10500:2012	
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
9	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	N.D.
10	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.12
11	Free Residual Chlorine	mg/L	IS 3025: (Part-26)	0.2	1	N.D.
12	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	0.14
13	Magnesium (as Mg)	mg/L	IS 3025: (Part-46)	30	100	26.7
_4	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	0.08
15	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5	No Relaxation	N.D.
16	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	0.61
17	Phenolic Compound (as C6H5OH)	mg/L	IS 3025(part-43)	0.001	0.002	N.D.
18	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.
19	Silver (as Ag)	mg/L	Annex J of IS 13428	0.1	No Relaxation	N.D.
20	Sulphate (as SO ₄)	mg/L	IS 3025: (Part-24)	200	400	18.4
21	Sulphide (as H ₂ S)	mg/L	IS 3025: (Part-29)	0.05	No Relaxation	N.D.
ż	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	140
23	Total Hardness (as CaCO3)	mg/L	IS 3025:(Part-21)	200	600	180
24	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	0.11
C.	Parameters con	cerning	g toxic substances	:-		
1	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.
2	Cyanide (as CN)	mg/L	IS 3025(part-27)	0.05	No Relaxation	N.D.
3	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.
4	Mercury (as Hg)	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.
5	Molybdenum (as	mg/L	IS 3025(part-2)	0.07	No Relaxation	N.D.
6	Nickel (as Ni)	mg/L	IS 3025(part-54)	0.02	No Relaxation	N.D.
7	Polychlorinate d biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.
8	Polynuclear aromatic	mg/L	АРНА 6440	0.0001	No Relaxation	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02956

SR.				AS PER	IS 10500:2012	
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
	hydrocarbons (as PAH)					
9	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
11	Trihalomethanes	:				
a)	Bromoform	mg/L	АРНА 6232	0.1	No Relaxation	N.D.
u)	Dibromochlorom ethane	mg/L	АРНА 6232	0.1	No Relaxation	N.D.
c)	Bromodichlorom ethane	mg/L	АРНА 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	АРНА 6232	0.2	No Relaxation	N.D.
D.	Pesticides:-				1	
1	Alpha HCH	µg/l	USEPA 508		0.01	N.D.
2	Beta HCH	µg/l	USEPA 508		0.04	N.D.
3	Delta HCH	μg/l	USEPA 508		0.04	N.D.
4	Alachlor	μg/l	USEPA 525.2, 507		20	N.D.
5	Aldrin / Dieldrin	µg/l	USEPA 508		0.03	N.D.
6	Atrazine	µg/l	USEPA 525.2,8141 A		2	N.D.
)	Butachlor	µg/l	USEPA 525.2,8141 A		125	N.D.
8	Chlorpyriphos	μg/l	USEPA 525.2,8141 A		30	N.D.
9	DDT (o,p and p, p-Isomers of DDT, DDE and DDD)	μg/l	USEPA 508		1	N.D.
10	Gamma HCH	µg/l	USEPA 508		2	N.D.
11	2,4- Dichlorophenox yacetic Acid	μg/l	USEPA 515.1		30	N.D.
12	Endosulphan (alpha, beta and sulphate)	μg/l	USEPA 508		0.4	N.D.
13	Ethion	μg/l	USEPA 1657 A		3	N.D.
14	Isoproturon	µg/l	USEPA 532		9	N.D.
15	Malathion	μg/1	USEPA 8141 A		190	N.D.
16	Methyl Parathion	μg/l	USEPA 8141 A		0.3	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02956

half bearing and			TEST RE	PORT		
SR.				AS PER IS 10500:2012		
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
17	Monocrotophos	μg/l	USEPA 8141 A		1	N.D.
18	Phorate	µg/1	USEPA 8141 A		2	N.D.
E.	Microbial Para	meters	I			
1	Total Coliform	MPN/1 00ml	IS:1622:1981:RA:20 19		-	Absent
2	E. Coli	MPN/ 100ml	IS:1622:1981:RA: 2019		-	Absent

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

This is for information as the party has asked for above test(s) only.

For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

REVIEWED BY

31/08/22

-End of the test report-



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Cust	omer	Report No	UES/TR/22-23/02959		
15-CC 16-W	ED I IMITED	Lab Ref No	UES/22-23/W/08121		
M/S JINDAL POWI		Date of Sampling	24/08/2022		
GARE PALMA IV/1 COAL MINE, VILLAGE: DONGAMAHUA TEHSIL: TAMNAR, DISTRICT: RAIGARH, (C.G.) 496107		Date of Receipt	25/08/2022		
		Date of Report	31/08/2022		
		Date of analysis	Start: 25/08/2022	End: 31/08/2022	
		SAMPLE DETAILS		the state of the s	
Customer Sample Id /Sampling Location	KALAL LOGESTIC CAMP				
Sample Type	Drinking Water				
Packing Of Sample	Plastic Bottle (5.01tr.) Glass Bottle (1.01tr.)				
mple Collected By	Laboratory Chemist				
sample Condition At Receipt	Ok				

REPORT NO.02959

SR.				AS PER	S 10500:2012	
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
A.	Organoleptic &	Physic	cal Parameters			
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1.0
2	Odour	_	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.2°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	6.91
4	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
3	Turbidity	NTU	IS 3025:(Part-10)	1	5	4.68
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	162.0
в.	General Parame	eters Co	ncerning Substan	ces undesir	able in excessiv	re amounts
1	Aluminium (as Al)	mg/L	IS 3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia- N)	mg/L	IS 3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
4		mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
4	Boron (as B)					24.2
	Boron (as B) Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	24.2
5	Calcium (as	mg/L	IS 3025: (Part-40) IS 3025: (Part-26)	75 4.0	No Relaxation	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02959

R.				AS PER	IS 10500:2012	
10.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
9	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	N.D.
10	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.12
11	Free Residual Chlorine	mg/L	IS 3025: (Part-26)	0.2	1	N.D.
12	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	N.D.
13	Magnesium (as Mg)	mg/L	IS 3025: (Part-46)	30	100	7.26
14	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	N.D.
15	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5	No Relaxation	N.D.
16	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	0.14
17	Phenolic Compound (as C6H5OH)	mg/L	IS 3025(part-43)	0.001	0.002	N.D.
18	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.
19	Silver (as Ag)	mg/L	Annex J of IS 13428	0.1	No Relaxation	N.D.
2.0	Sulphate (as SO ₄)	mg/L	IS 3025: (Part-24)	200	400	23.4
21	Sulphide (as H ₂ S)	mg/L	IS 3025:(Part-29)	0.05	No Relaxation	N.D.
2	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025: (Part-23)	200	600	72.0
23	Total Hardness (as CaCO3)	mg/L	IS 3025: (Part-21)	200	600	96.0
24	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	N.D.
2.	Parameters con	cernin	g toxic substances	:-		
1	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.
2	Cyanide (as CN)	mg/L	IS 3025(part-27)	0.05	No Relaxation	N.D.
3	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.
4	Mercury (as Hg)	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.
5	Molybdenum (as Mo)	mg/L	IS 3025(part-2)	0.07	No Relaxation	N.D.
6	Nickel (as Ni)	mg/L	IS 3025(part-54)	0.02	No Relaxation	N.D.
7	Polychlorinate d biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.
8	Polynuclear aromatic	mg/L	APHA 6440	0.0001	No Relaxation	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02959

2.67				AS PER	IS 10500:2012	
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
	hydrocarbons (as PAH)			70000		
9	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
11	Trihalomethanes					
a)	Bromoform	mg/L	APHA 6232	0.1	No Relaxation	N.D.
0)	Dibromochlorom ethane	mg/L	АРНА 6232	0.1	No Relaxation	N.D.
e)	Bromodichlorom ethane	mg/L	АРНА 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	АРНА 6232	0.2	No Relaxation	N.D.
D.	Pesticides:-					
1	Alpha HCH	μg/l	USEPA 508		0.01	N.D.
2	Beta HCH	μg/l	USEPA 508		0.04	
3	Delta HCH	μg/l	USEPA 508		0.04	N.D.
4	Alachlor	μg/l	USEPA 525.2, 507	20		N.D.
5	Aldrin / Dieldrin	μg/l	USEPA 508	0.03		N.D.
6	Atrazine	μg/l	USEPA 525.2,8141 A	2		N.D.
)	Butachlor	μg/l	USEPA 525.2,8141 A		125	N.D.
8	Chlorpyriphos	μg/1	USEPA 525.2,8141 A		30	N.D.
9	DDT (o,p and p, p-Isomers of DDT, DDE and DDD)	μg/l	USEPA 508		1	
10	Gamma HCH	μg/l	USEPA 508		2	N.D.
11	2,4- Dichlorophenox yacetic Acid	μg/l	USEPA 515.1		30	
12	Endosulphan (alpha, beta and sulphate)	μg/l	USEPA 508	0.4		N.D.
13	Ethion	µg/l	USEPA 1657 A		3	N.D.
14	Isoproturon	μg/l	USEPA 532		9	N.D.
15	Malathion	µg/l	USEPA 8141 A		190	N.D.
16	Methyl Parathion	μg/l	USEPA 8141 A		0.3	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02959

			TEST RE	PORT		
SR.	PARAMETER			AS PER IS 10500:2012	IS 10500:2012	
NO.		UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
17	Monocrotophos	μg/l	USEPA 8141 A	1		N.D.
18	Phorate	μg/l	USEPA 8141 A	2		N.D.
E.	Microbial Para	meters	-		E	
1	Total Coliform	MPN/1 00ml	IS:1622:1981:RA:20 19		_	Absent
2	E. Coli	MPN/ 100ml	IS:1622:1981:RA: 2019		-	Absent

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

This is for information as the party has asked for above test(s) only.

For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

08

End of the test report-----

31/08/22

REVIEWED BY



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Cust	omer	Report No	UES/TR/22-23/02960	
To,	DIIMITED	Lab Ref No	UES/22-23/W/08122	
M/S JINDAL POWE		Date of Sampling	24/08/2022	
GARE PALMA IV/1 VILLAGE: DONGA		Date of Receipt	25/08/2022	
		Date of Report	31/08/2022	
TEHSIL: TAMNAR, DISTRICT: RAIGARH, C.G.) 496107		Date of analysis	Start: 25/08/2022	End: 31/08/2022
		SAMPLE DETAILS		
Customer Sample Id /Sampling Location	VTC OFFICE RO WATER			
Sample Type	Drinking Water			
Packing Of Sample	Plastic Bottle (5.0ltr.) Glass Bottle (1.0ltr.)			
Sample Collected By	Laboratory Chemist			
Sample Condition At Receipt	Ok			

REPORT NO.02960

			TEST RI	EPORT		
SR.				AS PER	IS 10500:2012	
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
A.	Organoleptic &	Physic	cal Parameters			
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1.0
2	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.2°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.11
4	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS 3025:(Part-10)	1	5	1.34
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	86.0
В.	General Parame	eters Co	ncerning Substan	ces undesir	able in excessiv	re amounts
1	Aluminium (as Al)	mg/L	IS 3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS 3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as	mg/L	IS 3025:(Part-40)	75	200	7.64
7	Chloramines (as Cl ₂)	mg/L	IS 3025:(Part-26)	4.0	No Relaxation	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02960

SR.	AND A STATE OF THE PARTY OF THE			AS PER	IS 10500:2012	STATE OF THE PARTY
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
8	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	6.99
9	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	N.D.
	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.06
7.7	Free Residual Chlorine		IS 3025: (Part-26)	0.2	1	N.D.
12	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	N.D.
- 3	Magnesium (as Mg)	mg/L	IS 3025: (Part-46)	30	100	2.6
1 22	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	N.D.
	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5	No Relaxation	N.D.
D .	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	0.43
17	Phenolic Compound (as C6H5OH)	mg/L	IS 3025(part-43)	0.001	0.002	N.D.
1.8	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.
19	Silver (as Ag)	mg/L	Annex J of IS 13428	0.1	No Relaxation	N.D.
OZ 47.1 111	Sulphate (as SO ₄)	mg/L	IS 3025: (Part-24)	200	400	12.0
4	Sulphide (as H ₂ S)	mg/L	IS 3025:(Part-29)	0.05	No Relaxation	N.D.
22	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	42.0
23	Total Hardness (as CaCO ₃)	mg/L	IS 3025: (Part-21)	200	600	60.0
24	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	N.D.
c.	Parameters con	cerning	g toxic substances	:-	10.00	
	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.
	Cyanide (as CN)	mg/L	IS 3025(part-27)	0.05	No Relaxation	N.D.
	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.
4	Mercury (as	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.
5	Molybdenum (as	mg/L	IS 3025(part-2)	0.07	No Relaxation	N.D.
6	Nickel (as Ni)	mg/L	IS 3025(part-54)	0.02	No Relaxation	N.D.
- Y	Polychlorinate d biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02960

SR.	ALVANDO MACADADA - CONTROLA			AS PER		
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
8	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	АРНА 6440	0.0001	No Relaxation	N.D.
9	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
11	Trihalomethanes	:				
_)	Bromoform	mg/L	АРНА 6232	0.1	No Relaxation	N.D.
b)	Dibromochlorom ethane	mg/L	АРНА 6232	0.1	No Relaxation	N.D.
c)	Bromodichlorom ethane	mg/L	АРНА 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	АРНА 6232	0.2	No Relaxation	N.D.
D.	Pesticides:-					
1	Alpha HCH	μg/l	USEPA 508	0.01		N.D.
2	Beta HCH	μg/l	USEPA 508		0.04	N.D.
3	Delta HCH	µg/l	USEPA 508		0.04	N.D.
4	Alachlor	µg/l	USEPA 525.2, 507	20		N.D.
5	Aldrin / Dieldrin	μg/l	USEPA 508	0.03		N.D.
	Atrazine	µg/1	USEPA 525.2,8141 A		2	N.D.
7	Butachlor	µg/1	USEPA 525.2,8141 A		125	N.D.
8	Chlorpyriphos	µg/l	USEPA 525.2,8141 A		30	N.D.
9	DDT (o,p and p, p-Isomers of DDT, DDE and DDD)	µg/1	USEPA 508		1	N.D.
10	Gamma HCH	μg/l	USEPA 508		2	N.D.
11	2,4- Dichlorophenox yacetic Acid	µg/1	USEPA 515.1	30		N.D.
12	Endosulphan (alpha, beta and sulphate)	µg/1	USEPA 508	0.4		N.D.
13	Ethion	μg/l	USEPA 1657 A		3	N.D.
14	Isoproturon	μg/l	USEPA 532		9	N.D.
15	Malathion	μg/1	USEPA 8141 A		190	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02960

			TEST RE	PORT		
SR.	PARAMETER			AS PER	IS 10500:2012	
NO.		UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
16	Methyl Parathion	μg/1	USEPA 8141 A	0.3		N.D.
17	Monocrotophos	μg/l	USEPA 8141 A	1		N.D.
18	Phorate	μg/1	USEPA 8141 A	2		N.D.
E.	Microbial Para	meters				
1	Total Coliform	MPN/1 00ml	IS:1622:1981:RA:20 19		-	Absent
7	E. Coli	MPN/ 100ml	IS:1622:1981:RA: 2019		-	Absent

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

This is for information as the party has asked for above test(s) only.

31/08/12

REVIEWED BY

For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

-- End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Cust	omer	Report No	UES/TR/22-23/02958		
To,		Lab Ref No	UES/22-23/W/08120		
M/S JINDAL POWE	R LIMITED,	Date of Sampling	24/08/2022		
GARE PALMA IV/1	COAL MINE,	Date of Receipt	25/08/2022		
VILLAGE: DONGA	MAHUA	Date of Report	31/08/2022		
TEHSIL: TAMNAR (C.G.) 496107	, DISTRICT: RAIGARH,	Date of analysis	Start: 25/08/2022	End: 31/08/2022	
		SAMPLE DETAILS			
Customer Sample Id /Sampling Location	PIT "III" DRINKING WATER				
Sample Type	Drinking Water				
Packing Of Sample	Plastic Bottle (5.0ltr.) Glass Bottle (1.0ltr.)				
sumple Collected By	Laboratory Chemist				
Sample Condition At Receipt	Ok		W .		

REPORT NO.02958

0.0				AS PER	IS 10500:2012	
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
A.	Organoleptic &	Physic	al Parameters			
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1.0
2	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.2°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	6.98
4	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS 3025: (Part-10)	1	5	1.2
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	102.0
в.	General Parame	ters Co	ncerning Substan	ces undesir	able in excessiv	re amounts
1	Aluminium (as Al)	mg/L	IS 3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS 3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as	mg/L	IS 3025:(Part-40)	75	200	10.6
7	Chloramines (as Cl ₂)	mg/L	IS 3025:(Part-26)	4.0	No Relaxation	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02958

SR.				AS PER	IS 10500:2012	
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
8	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	6.99
9	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	N.D.
10	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.11
11	Free Residual Chlorine	mg/L	IS 3025: (Part-26)	0.2	1	N.D.
12	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	N.D.
_3	Magnesium (as Mg)	mg/L	IS 3025: (Part-46)	30	100	3.48
14	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	N.D.
15	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5	No Relaxation	N.D.
16	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	0.24
17	Phenolic Compound (as C6H5OH)	mg/L	IS 3025(part-43)	0.001	0.002	N.D.
18	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.
19	Silver (as Ag)	mg/L	Annex J of IS 13428	0.1	No Relaxation	N.D.
20	Sulphate (as SO ₄)	mg/L	IS 3025: (Part-24)	200	400	14.6
21	Sulphide (as H ₂ S)	mg/L	IS 3025: (Part-29)	0.05	No Relaxation	N.D.
22	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	40.0
23	Total Hardness (as CaCO ₃)	mg/L	IS 3025: (Part-21)	200	600	68.0
24	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	N.D.
C.	Parameters con	cerning	toxic substances	:-		
1	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.
2	Cyanide (as CN)	mg/L	IS 3025(part-27)	0.05	No Relaxation	N.D.
3	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.
4	Mercury (as Hg)	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.
5	Molybdenum (as Mo)	mg/L	IS 3025(part-2)	0.07	No Relaxation	N.D.
6	Nickel (as Ni)	mq/L	IS 3025(part-54)	0.02	No Relaxation	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02958

SR.				AS PER	IS 10500:2012	
NO.	PARAMETER	UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
7	Polychlorinate d biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.
8	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	APHA 6440	0.0001	No Relaxation	N.D.
9	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	No Relaxation	N.D.
±1	Trihalomethanes:					
a)	Bromoform	mg/L	АРНА 6232	0.1	No Relaxation	N.D.
b)	Dibromochlorom ethane	mg/L	АРНА 6232	0.1	No Relaxation	N.D.
c)	Bromodichlorom ethane	mg/L	АРНА 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	АРНА 6232	0.2	No Relaxation	N.D.
D.	Pesticides:-					
1	Alpha HCH	μg/l	USEPA 508		0.01	N.D.
2	Beta HCH	μg/l	USEPA 508		0.04	N.D.
3	Delta HCH	μg/l	USEPA 508		0.04	N.D.
4	Alachlor	μg/l	USEPA 525.2, 507		20	N.D.
	Aldrin / Dieldrin	μg/l	USEPA 508		0.03	N.D.
6	Atrazine	µg/l	USEPA 525.2,8141 A		2	N.D.
7	Butachlor	μg/l	USEPA 525.2,8141 A	-	125	N.D.
8	Chlorpyriphos	μg/l	USEPA 525.2,8141 A		30	N.D.
9	DDT (o,p and p, p-Isomers of DDT, DDE and DDD)	μg/l	USEPA 508		1	N.D.
10	Gamma HCH	μg/l	USEPA 508		2	N.D.
11	2,4- Dichlorophenox yacetic Acid	µg/l	USEPA 515.1		30	
12	Endosulphan (alpha, beta and sulphate)	μg/l	USEPA 508		0.4	N.D.
13	Ethion	µg/l	USEPA 1657 A		3	N.D.
14	Isoproturon	µg/l	USEPA 532		9	N.D.



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

REPORT NO.02958

			TEST RE	PORT		
SR.	PARAMETER			AS PER	IS 10500:2012	
NO.		UNIT	METHOD OF TEST	Acceptable Limit	Permissible limit	RESULT
15	Malathion	µg/l	USEPA 8141 A		190	N.D.
16	Methyl Parathion	µg/l	USEPA 8141 A		N.D.	
17	Monocrotophos	µg/l	USEPA 8141 A		N.D.	
18	Phorate	μg/l	USEPA 8141 A		2	N.D.
E.	Microbial Para	meters	1			
	Total Coliform	MPN/1 00ml	IS:1622:1981:RA:20 19		-	Absent
2	E. Coli	MPN/ 100ml	IS:1622:1981:RA: 2019		-	Absent

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

> This is for information as the party has asked for above test(s) only.

31/08/22

REVIEWED BY

For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

-End of the test report-



Physical Achievement Report- Gare IV/1 Mines-CSR JPL (April to Sept - 2022) FY-2022-23

As per EC condition Jindal Power Limited implementing CSR activities in 10 villages near (06 core villages and 04 nearby village) of Gare IV/1 mine from July 2021. Under CSR we are working in village Nagramuda, Janjgeer, Tapranga, Amgaon, Jharadeeh, Dhaurabhanta, Dongamauha, Beljor, Libra, and Jharna. Following CSR projects/activities initiated in above mentioned villages from April to Sept-22 -FY-2022-23

1. Health & Nutrition

1.0 Rural Health Camps- 54 health camps were organised through mobile dispensary against the target of 56 camps in which 985 (Male- 242, Female-415, Children-151 and Old Age-71) patients were catered. 27 Patients were referred to e- health centre for consultancy from super specialist and further treatment. 38 patients were referred to Fortis OP Jindal Hospital Tamnar and 27 patients were referred to Govt. hospital. Disease wise bifurcations of the patients are as following:-

Hypertension	51	Dental	28
Pregnant women(ANC)	03	URTI	239
Under nutrition	57	GI	68
Fever	74	Skin	135
Gyne	11	Anemia	44
PNC	18	Cataract	1
Other general patients	229	Referred	27

1.1 Project Vatsalya- Community based village health volunteers i.e. Swasthya Sanginis were played a very catalytic role in mother and child health care in their respective villages. They are the point of contacts in their respective villages as a resource person about disseminating preventive awareness messages, vaccination details and other related aspects. Following activities were done under project Vatsalya:-

- Antenatal care services were provided to 70 women against the target of 70 women. During the
 pregnancy period of an expecting mother, care is being taken for early registration, ante natal checkups ensuring intake of IFA tablets, TT injections and necessary tests.
- The lactating mothers received Post-natal care service (40 women, 100% target achieved) ensuring Colostrum feeding to the new born child, exclusive breast feeding, and supplementary nutrition for both the mother and the child was ensured.

Apart from the above stated, following activities were carried out to ensure maternal & child health carenutrition and health education in this guarter:-

- 92 community meetings were organised (against target of 100 meetings) with 935 women.
- 35 Ante Natal & 39 Post Natal care sessions were organised against a target of 84 sessions (40 ANC and 40 PNC sessions) attended by 143 pregnant women and 253 mothers respectively.
- 68 health education sessions (Khelwadi) was organized against the target of 70 sessions in which 645 children participated.



• 16 meetings with the Village Health and Sanitation Committee (VHSC) was organised against the target of 20. The "Swasthaya Sanginis" strengthen the existing VHSC formed under the NRHM.

On 9th of every month, safe motherhood day is observed in coordination with Health department in which complete care for ante natal and post-natal is done at Community Health Centre by specialist. The VHV's mobilized and facilitate the target women to avail the services. *During the period of April to Sept'22, 35 pregnant mothers attended the safe motherhood day sensitization programme*.

Reduction in maternal and child mortality is a major objective of Vatsalya program. Zero MMR reported in this quarter.

During the said period, a total 14 institutional deliveries out of 15 deliveries were facilitated, achieving 93.33% of the target.

144 out of targeted 144 children got vaccination for proper immunization achieving 100 % of the target.

71 Kishori Swasthaya Pathshala by VHVs were organised against the target of 75 in which 526 adolescent girls participated.

In the Pathshalas, 125 counselling sessions of adolescent girls were carried out in Vatsalya Kendra out of which 35 identified girls were referred to e-hc for the treatment of anaemia and menstruation related problems.

1.2 Project Chiranjeevi- JPL CSR has successfully undertaken the project Chiranjeevi in convergence with ICDS. Under the project, BMI of 528 children (age group: 6 months old to 5 years) was measured. 42 malnourished children were identified *(Moderate-27, Severe -15)* from 06 villages. Under this project regular clinical and nutritional intervention is being taken care for all 42 identified children.

The identified malnourished children are linked to ICDS schemes with the help of "Swasthaya Sangini" (VHVs) for nutrition supplement. For better clinical support these children were referred to further treatment at e-health centre.

Take Home Ration (THR) and Ready to Eat food was provided to the children in convergence with ICDS. By providing regular nutritional and clinical support. In this period a total 14 malnourished children turned to normal category.

1.3 Population stabilization programme-32 eligible couple meetings were organised against the target of 40 by VHVs in which 270 couple attended. 200 individual counselling was done and the total contraceptive users registered in the village were 1842

1.4 High Risk Pregnancy check up and treatment camp

To reduce IMR & MMR Vatslaya program is executing in 10 villages of Gare IV/1 mines area under the Vatsalaya project 07 Swasthya Sangini is working to ensure safe mother hood and child care. In the operational area 08 high risk pregnant women identified. To counsel and ensure better health of high risk mother 04 special camps organized at OPJHRC- Tamnar. All 07 high risk mothers attended and counselled



and treated with Gyne specialist Dr. Bishkha Day. The follow-up of the mothers will be continued. Out of 07 -04 mothers turned from high risk.04 normal delivery reported of high risk mothers.

1.5 Theme days & Health awareness program

1.5.1 National Doctors day

National doctors day observed on 1st July -22 at OPJHRC –Tamnar. On the occasion felicitation program of doctors organized. In the program Dr. D.S. Painkara Block medical officer –Tamnar ,Dr. U.K. Patti- CMO – OPJHRC Tamnar Dr. Rajesh Patel -Medical officer PHC-Libra , Dr. Bishkha Day –Gynaecologist, Dr. Vinay Kumar Patel –Sonologist, Dr. Priya Rai – General surgeon were presented and honoured .

1.5.2 World Population Day

World Population Day is celebrated annually on 11 July to focus attention on the urgency and importance of population issues. On the occasion JSP Foundation in JPL Tamnar organsed a felicitations program for ideal couple who were married on right age of marriage, maintained three year of spacing between first and second child and adopted sterilization as a family planning norms on completion of family (1/2 child). In the program resource person from CHC Tamnar sensitize to all Swasthya Sangini about various scheme and services of population stabilization. Total 06 ideal couples were felicitated. A weeklong awareness program from 11th to 17th July organized in surrounding villages more than 125 people attended

1.5.3 World Breast Feeding week (1st to 7th August)

To encourage breastfeeding and improve the health of babies, world breast feeding week celebrated from 1st to 7th August in operational area under Vatsalaya project. Under the week awareness program organized in operational villages.

1.5.4 Blood Donation Camp-10th August-22

Blood Donation Camp was organized on 10th August at OPJHRC Tamnar in joint collaboration with RED Cross Society and OPJHRC-Raigarh. In the camp 43 unit blood were voluntarily donated by JPL employee.

1.5.5 National Nutrition week

National Nutrition Week (NWN) is observed from 1-7 every year to educate the populace about the significance of nutrition. Adequate nutrition is the comer stone that determines the overall well-being of a person, as it supports individuals in mainstreaming health status and average growth and development. To lead a healthy lifestyle and stay disease free, every individual should adopt mindful eating practices. JSP Foundation in JPL Tamnar observed National Nutrition week awareness and nutrition classes organized among parents of malnourished children, Pregnant and lactating mothers. The program organised in 10 villages more than 250 people attended.

1.5.6 World First AID day



On the occasion of World First AID Day 10th September, first Aid training organized by JSP Foundation in JPL Tamnar for Swasthya Sangini –Women Village Health workers working under Vatsalaya project. Dr. Ashwani Patel MO –OPJHRC Tamnar delivered the training.

1.5.7 National Eye care week

Promoting the importance of good eye health and the need of regular eye test for all. National eye care week observed from 1st to 7th September-22 by JSP Foundation in JPL Tamnar. Under the program eye health awanress and eye test program conducted in the Govt. schools. More than 90 students attended awareness program and eye check-up of 30 students done.

2. Drinking water & Sanitation

2.1 ODF- 33 meetings were organised to change behaviour of the people on sanitation and use of toilet 329 people attended. The attendees were sensitized on hygiene and cleanliness aspects.

2.2 Drinking water facilities in villages

Drinking water arranged in 02 villages during stress period through water tanker(Janjgeer, Jharadeeh), One submersible pump was installed at village Janjgeer, more than 365 family benefiting.

2.3 Supply of safe drinking water through water Tanker

40 water tanker / 2000 people (drinking water supplied in villages through water tanker in stress period

2.4 Project Shubhangi- Menstural health & hygeine

CSR JPL initiated Shubhangi project to enhance the menstrual health status and promote use of low cost Sanitary napkins among adolescent girls and women through social marketing. To make aware and sensitize adolescent girls on menstrual health & hygiene during the period of April to Sept- 2022, 54 educational sessions were organised in villages through VHVs 513 women & adolescent girls were attended.

The social business model of manufacturing and distribution of sanitary napkin witnessed a total sale of 1400 and adolescent girls of worth Rs. 40,000/.

3.00 COMMUNITY EDUCATION:

- **3.1** Little Angels Schools- Pre-Primary education is being undertaken at Little Angels Schools in villages Libra with strength of 30 children. In education session 2022-23, 14 children mainstreamed in nearby by schools for further education. 02 new Little Angel centre proposed to open at village Amgaon & Tapranga
- **3.2 Knowledge Park** The Knowledge Park is located at Libra and Rabo. The centres consist of library and indoor sports facilities for school children in the form of Child Learning centre and Community Information centre for rural youths. Newspapers, Magazines, Books, Journals and associated resource materials are available at the centres. 350 children and youths are the part of the centres in the said period.



3.3 Facilitation program of meritorious students

On 6th September-22 facilitation programs was organized for meritorious students of OP Jindal School Savitri Nagar, and OPJS Kunjemura who were passed class 10th & 12th with excellent number. Plant head Sh. C.N. Singh graced the occasion. Under the program 60 students awarded with certificate and mementoes.

4. ENTREPRENEURSHIP DEVELOPMENT PROGRAMME

4.1 Mushroom Production:

Training and Capacity Building- The mushroom production resource centre has been established to provide technical support to the farmers and entrepreneurs. Technical assistance to 1160 farmers is being provided from the centre. During the period of July to Sept.-22, 10 training programmes have been conducted on Paddy straw mushroom cultivation with 310 SHGs/ farmers.

4.2 Mushroom Production – Mushroom production is very popular among farmers because of its high protein values. More than 50 farmers, women SHGs members are regularly producing mushroom and this is an easy livelihood generation option for them.

06 Mushroom shed 40 beded constructed_in village – 03 in Amgaon & 03 in Janjgeer , benefiting more than 100 women

5. Natural Resource Development

5.1 Create Carbon Sink

To create carbon sink Pond deepening work done at village Tapranga Pond , benefiting more than 950 people.

6.0 Agriculture Development

6.1 Promotion of Paddy cultivation through SRI

To enhance the income of farmers, paddy cultivation through SRI is being promoted in 186 acres of land, benefitting 40 farmers. The System of Rice Intensification (SRI) is a methodology for increasing the yield of rice produced in farming. In this quarter training and hybrid paddy seed provided to 180 farmers.

6.2 Training to adopt innovative practices in farming

To improve the skill of farmers and make them adequate enough on new technologies and innovative practices in farming, 05 training programmes were organised with 100 Farmers in collaboration with Agriculture Department. In the training new technique in Paddy cultivation, crop insurance, other govt. schemes for farmers, promotion of pulses cultivation was discussed and appraised.

<u>6.3 Promotion of Vegetable cultivation</u> – To increase the income of farmer's vegetable cultivation among farmers is being promoted. 10 farmers have been undertaking vegetable cultivation. In the said period, 10 farmers earned Rs.1.60 Lakhs as an additional income from vegetable selling.



7.00 Sports, Art & culture

7.1 Sports promotion among youths: - To promote sports activities among youth CSR JPL supporting to youth to organised sports competition. In this period Kabbadi Tournament at village-Janjgeer, Amgaon organised. Sankul level sports organised at village —Dhaurabhanta, more than 300 children's from Govt. Schools participated.

7.2 CSR week celebration

CSR week celebrated from 7th to 13th August-22. Various community development and social welfare programs organized under the Mahila Sammelan -8th August ,World Tribal day -9th August, Blood Donation camp -10th August-43 unit blood collected, serving old age people-11th August, International Youth day -12thAugust, Har Ghar Tiranga campaign -13th August organized more than 1600 people attended

8.00 Social inclusion

8.1 Jindal Children home

Jindal Children home establish at JPL Tamnar with an approval of 50 boys & 50 girls from February-22 with 35 orphan children. The home is executing under JJ Act -2015, regular monitoring of home is being done by Child welfare committee —Raigarh and district Child protection officer. At present 86 boys & girls are residing in the home (boys-48, girls -39).

9.0 Rural Infrastructure Development: - Under RDP following work executed in operational villages

- 80 RM CC Road at village –Jharadeeh (Dhaurabhanta-Jharadeeh) constructed
- Painting work at Gothan Amgaon completed
- 05 Km road repairing from Amgaon to Tapranga is in progress
- Painting at community assests



Corporate Social Responsibility - Jindal Power Limited - Tamnar

Financial Expenditure- April -September-22 (FY-2022-23) Gare -IV/1 Mines -CSR JPL Tamnar

S.	Area of intervention	Proposed Project	Eexpenditure (April to
No.	Area of intervention	Proposed Project	Sept-22) FY-22-23 (In Lakh)
			cope and year and the same,
1	Health, Nutrition &	Nahila Haalth same	0.76
	Drinking water	Mobile Health camp	0.76
		Vatsalya Project	1.89
		Establishment of 06 Vatsalaya Center	1.5
		Chiranjivi Project	0.54
		Health Awareness Program	0.25
		Renovation/strengthening of PHC	0
		Rennnovation of sub center	0
		Rennovation of Aganwadi Center	0
		Subhangi-Menstural health & Hygeine	0.25
		Clean and safe Drinking water in all 6 villages	15.83
		ODF	0.36
Sub to	otal of Health ,Nutrition	& Drinking water	21.38
3	Community Education	Renovation of primary/middle and secondary Schools along with drinking water water & sanitation facilities	1.50
		Estabishmnet of 02 little angel center for pre primary education	0
	Total Com	munity Education	1.50
			7



		Promotion of IGAs	13.15
4	Sustainable Livelihood & Women Empowerment	Project Mushroom - training & development, shed construction	1.20
		EDP- Swawlamban & Swa Shakti	3.90
	Total Sustainable Livelih	nood & Women Empowerment	18.25
		Creating carbon Sinks	17.50
		Agriculture Development -Promotion of SRI method in paddy cultivation, Organic vegetable cultivation , farmers training	0.50
	Tot	al of NRM	18.00
6	Sports	Rennovation /construction /painting of sports ground	0.35
		Sports promotion among youth	0.15
	1	Fotal Sports	0.50
9	Rural Infrastructure	Construction of CC Road	60.00
		Boundry wall and other misc work at Gothan Jangeer, Amgaon and other viilages	0.70
		Muroom road	6.00
		Boundry wall Govt. Primary school/Aganwadi centre	0.00
		Construction / rennovation of Community building	0.00
		Construction of Bathing ghats	0.00
		Construction/ repairing of drain	0.00
		Market Shed -Dhaurabhanta	0.00
	Total	Rural Infrastructure	66.70
	GRA	AND TOTAL	126.33



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Custo	omer	Report No.	UES/TR/22-23/0295	55						
То,		Lab Ref No.	UES/22-23/AAQM/0	08114-08117						
M/S JINDAL POWE		Date of Sampling	Date of Sampling 24/08/2022							
GARE PALMA IV/1	COAL MINE,	Date of Receipt	25/08/2022							
Village: Dongamal	hua	Date of Report	31/08/2022							
Tehsil: TAMNAR, I (C.G.) 496107	DISTRICT: RAIGARH,	Date of Analysis	Start: 25/08/2022	End: 31/08/2022						
	Si	AMPLE DETAILS								
Monitoring For	Ambient Air Quality Monitoring									
	1. Tapranga Village									
	2. Dhaurabhata									
Sampling Location	3. Janjgir Village									
	4. Dongamauha Main (Gate								
Duration Of Sampling	As per CPCB norms									
Sample Collected By	Laboratory Chemist									
Sampling Procedure	As Per Method Reference									
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ :		er Bladder: 1X1 No.							

		TEST	REPORT									
				RESULT								
PARAMETER	UNIT	METHOD REFERENCE	NAAQM STANDARD	Tapranga Village	Dhaura- bhata	Janjgir Village	Donga- mauha Main Gate					
Particulate Matter size less than 10 microns (PM ₁₀)	μg/m³	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	100	31.6	38.4	36.2	38.6					
Particulate Matter size less than 2.5 microns (PM _{2.5})	μg/m³	CPCB Guidelines VolI.	60	19.8	22.4	20.6	22.8					
Sulphur Dioxide (SO ₂)	μg/m³	IS 5182 (Part 2): 2001, RA 2006 &CPCB Guidelines VolI	80	10.4	8.8	9.8	8.4					
Nitrogen Dioxide (NO ₂)	μg/m³	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80	14.6	16.8	18.6	12.6					
Carbon Monoxide (CO) *	mg/m³	IS 5182(Part 10):1999, RA 2003	4.0	0.62	0.34	0.58	0.43					
Lead (Pb)	μg/m³	CPCB Guidelines Vol-I and AAS Method	1.0	N.D.	N.D.	N.D.	N.D.					
Nickel (Ni)	ng/m³	CPCB Guidelines Vol-I and AAS Method	20	N.D.	N.D.	N.D.	N.D.					
Arsenic (As)	ng/m³	CPCB Guidelines Vol-I and AAS Method	6.0	N.D.	N.D.	N.D.	N.D.					
Ozone (O3) *	µg/m³	CPCB Guidelines Vol-I	180	20.6	24.4	20.2	18.4					
Ammonia (NH ₃)	µg/m³	CPCB Guidelines Vol-I	400	30.2	24.8	26.4	20.8					
Benzene (C ₆ H ₆)	µg/m³	IS 5182 (Part 11):2006	5.0	N.D.	N.D.	N.D.	N.D.					
Benzo (a) Pyrene	ng/m³	IS 5182 (Part 12):2014	1.0	N.D.	N.D.	N.D.	N.D.					

REMARKS: * These Results are on the basis of 1 hour sampling, N.D.: Not Detected

Terms & conditions

Bell

The report for publication, arbitration or as legal dispute is forbidden.

Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

This is for information as the party has asked for above less(s) only

31/08/22 REVIEWED BY

For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

-End of the test report-



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Cust	omer	Report No.	UES/TR/22-23/0295	54						
То,		Lab Ref No.	UES/22-23/AAQM/0	08110-08113						
M/S JINDAL POWE	F	Date Of Sampling	24/08/2022							
GARE PALMA IV/1	COAL MINE,	Date Of Receipt	25/08/2022							
Village: Dongama	hua	Date Of Report	31/08/2022							
Tehsil: TAMNAR, (C.G.) 496107	DISTRICT: RAIGARH,	Date Of Analysis	Start: 25/08/2022	End:31/08/2022						
	Si	AMPLE DETAILS		Manager and the same of the sa						
Monitoring For	Ambient Air Quality Monitoring									
	Near Weigh Bridge									
Sampling Lassian	2. Near Pit - 1 Sump									
Sampling Location	3. Kalal Logistic Camp	p								
	4. Near Pit – III View	Point								
Duration Of Sampling	As per CPCB norms									
Sample Collected By	Laboratory Chemist									
Sampling Procedure	As Per Method Reference									
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ :		er Bladder: 1X1 No.							

		TEST REF	PORT				
					RES	ULT	AND DESCRIPTION OF THE PARTY OF
PARAMETER	UNIT	METHOD REFERENCE	NAAQM STANDARD	Near Weigh Bridge	Near Pit 1	Kalal Logistic Camp	Near Pit – III View Point
Particulate Matter size less than 10 microns (PM ₁₀)	μg/m³	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	100	44.6	39.6	36.4	41.8
Particulate Matter size less than 2.5 microns (PM _{2.5})	μg/m³	CPCB Guidelines VolI.	60	22.2	19.8	18.2	20.6
Sulphur Dioxide (SO ₂)	µg/m³	IS 5182 (Part 2): 2001, RA 2006 6CPCB Guidelines VolI	80	9.8	8.6	09.4	11.2
Nitrogen Dioxide (NO ₂)	µg/m³	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80	12.4	12.8	18.2	16.6
Carbon Monoxide (CO) *	mg/m³	IS 5182(Part 10):1999, RA 2003	4.0	0.43	0.56	0.34	0.28
Lead (Pb)	μg/m³	CPCB Guidelines Vol-I and AAS Method	1.0	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	ng/m³	CPCB Guidelines Vol-I and AAS Method	20	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	ng/m³	CPCB Guidelines Vol-I and AAS Method	6.0	N.D.	N.D.	N.D.	N.D.
Ozone (O3)*	µg/m³	CPCB Guidelines Vol-I	180	12.6	10.2	9.8	6.2
Ammonia (NH ₃)	µg/m³	CPCB Guidelines Vol-I	400	26.4	22.8	16.8	14.2
Benzene (C ₆ H ₆)	µg/m³	IS 5182 (Part 11):2006	5.0	N.D.	N.D.	N.D.	N.D.
Benzo (a) Pyrene	ng/m ³	IS 5182 (Part 12):2014	1.0	N.D.	N.D.	N.D.	N.D.

REMARKS: * These Results are on the basis of 1 hour sampling, N.D.: Not Detected

Terms & conditions

The report for publication, arbitration or as legal dispute is forbidden.

Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

This is for information as the party has asked for above test only.

Bell 31/08/22 REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

					onth:						NITOR			
				1410	2(10(1. /	priii	2022	10 36	PM -		2022			
Location	Month	1	2	3	4	5	6	7	8	9	Min.	May	A	I facts
91	April – 22							- 6	100	9	101111111111111111	Max.	Avg.	Limit
		32	29	24	22	26	36	29	35		22	36	29	
	May – 22	30	28	32	29	33	28	25	27	31	25	33	29	
	June – 22	34	36	29	31	24	18	27	32	29	18	36	29	60 μg/m3
	July – 22	19	17	21	23	18	22	16	20	22	16	23	20	55 PG/
	August – 22	27	19	15	16	18	25	24	28	32	15	32	23	
	September – 22	19	21	23	17	20	15	17	21	20	15	23	19	
								И - 10						
	April – 22	78	71	75	80	83	88	79	82		71	88	80	
	May – 22	65	76	84	78	82	79	71	74	80	65	84	77	
	June – 22	76	73	82	71	63	59	67	72	74	59	82	71	100 μg/m
	July - 22	46	45	54	56	42	57	39	48	61	39	61	50	
	August – 22	49	46	41	44	46	58	53	50	61	41	61	50	
Location – 1	September – 22	49	54	44	43	52	41	45	49	52	41	54	48	
(Near								Nox						
Dongamahua)	April – 22	25	28	24	22	27	24	26	29		22	29	26	
	May – 22	23	26	21	24	29	25	27	31	28	21	31	26	
	June – 22	26	24	31	29	27	21	23	28	22	21	31	26	
	July - 22	18	21	19	17	21	20	18	19	23	17	23	20	80 μg/m3
	August – 22	23	19	13	18	14	15	19	15	24	13	24	18	
	September – 22	18	22	21	20	18	16	19	23	22	16	23	20	
				/r				502						
	April – 22	17	14	16	15	13	12	15	17		12	17	15	
	May – 22	14	13	15	12	16	15	13	14	17	12	17	14	
	June - 22	14	12	16	11	15	13	12	18	15	11	18	14	90 ug/m²
	July – 22	12	14	13	11	10	12	10	11	15	10	15	12	80 μg/m3
	August – 22	12	14	11	11	8	9	13	11	16	8	16	12	
	September – 22	10	13	15	14	11	9	12	11	14	9	15	12	
							PN	1 - 2.5				THE P.		
	April – 22	28	22	26	21	23	20	31	29		20	31	25	
	May – 22	26	29	31	27	30	25	23	29	28	23	31	28	
	June – 22	31	34	26	28	19	21	23	21	26	19	34	25	60 μg/m3
	July – 22	21	18	20	19	22	24	18	17	19	17	24	20	00 μg/111.
	August – 22	29	23	25	23	26	27	28	34	38	23	38	28	
	September – 22	21	19	20	18	22	17	16	20	17	16	22	19	
							PN	<i>A</i> - 10						
	April – 22	71	67	70	68	77	69	72	75		67	77	71	
Location - 2	May – 22	71	78	76	72	79	75	69	74	77	69	79	75	
lear Old Hostel	June – 22	74	71	77	69	59	53	62	68	71	53	77	67	/
- Nursery)	July – 22	43	41	49	53	46	59	36	52	58	36	59	49	100 μg/m
	August – 22	60	52	55	49	58	51	54	58	60	49	60	55	
	September – 22	39	51	47	41	47	43	38	49	44	38	51	44	
	nere in Marie Gladini, må (må)	45	Company of the Compan					Nox		10075			3.3%	
	April – 22	27	25	26	23	24	26	21	27		21	27	25	
	May – 22	25	22	23	21	26	23	19	20	24	19	26	23	
	June – 22	22	20	24	19	21	25	18	23	25	18	25	22	80 μg/m3
	July – 22	21	16	18	19	18	25	19	17	20	16	25	19	ου μg/ms
	11111/ //	/ 1	10	19	19	10	4.1	19	1/	/()	10	2.1	19	

	September – 22	17	21	23	18	19	18	21	19	18	17	23	19	
								SO ₂						
	April – 22	15	14	11	14	15	13	11	14		11	15	13	
	May - 22	16	12	13	15	14	11	12	14	15	11	16	14	
	June – 22	12	14	13	10	11	13	12	11	12	10	14	12	
	July - 22	16	10	14	15	13	12	13	12	11	10	16	13	80 μg/m3
	August – 22	15	13	14	11	12	15	12	11	16	11	16	13	
	September – 22	13	15	12	9	13	10	14	12	13	9	15	12	
		1	-3 31		-		PN	1 - 2.5			18-11		111-11	
	April – 22	19	20	22	20	21	18	22	23		18	23	21	
	May - 22	24	26	23	25	28	21	20	24	23	20	28	24	
	June - 22	22	21	27	26	17	16	18	21	19	16	27	21	
	July - 22	15	14	17	20	19	21	17	16	18	14	21	17	60 μg/m3
	August – 22	26	18	21	23	22	21	24	25	26	18	26	23	
	September – 22	17	18	20	15	18	14	15	17	19	14	20	17	
	1							M - 10		20		20		
	April – 22	54	58	63	61	59	52	60	62		52	63	59	
	May - 22	65	62	60	69	72	67	61	63	65	60	72	65	
	June – 22	63	60	65	62	51	48	53	52	58	48	65	57	
	July – 22	34	38	42	39	36	40	32	46	44	32	46	39	100 μg/m
	August – 22	48	42	45	51	49	46	51	54	48	42	54	48	
Location - 3	September – 22	42	47	37	39	49	34	36	46	43	34	47	41	
(Near Janjgir)	September – 22	42	47	37	39	44			40	43	34	47	41	
	A11 22	20	22	10	10	24		Nox	22		4.0	22	20	
	April – 22	20	22	18	19	21	23	18	22	22	18	23	20	
	May – 22	18	23	21	19	22	20	19	21	23	18	23	21	
	June – 22	17	19	22	18	17	21	23	16	18	16	23	19	80 μg/m3
	July – 22	14	15	16	18	16	19	16	15	18	14	19	16	
	August – 22	14	14	15	14	13	16	17	17	19	13	19	15	
	September – 22	16	19	18	17	15	16	19	21	17	15	21	18	
			4.0	40	4.0	4.2		SO ₂	42		40	10	12	
	April – 22	14	16	12	13	12	15	10	12		10	16	13	
	May – 22	12	15	12	11	14	10	11	13	12	10	15	12	
	June – 22	11	13	14	10	13	11	14	12	10	10	14	12	80 μg/m3
	July – 22	11	10	12	10	9	11	9	10	13	9	13	11	151,500
	August – 22	10	8	11	9	11	9	13	12	14	8	14	11	•
	September – 22	9	11	10	9	10	8	11	9	8	8	11	9	
ocation								1 - 2.5						
	April – 22	34	27	23	28	32	31	25	29		23	34	29	
	May – 22	28	33	29	26	30	27	22	26	31	22	33	28	
	June – 22	33	28	35	32	27	19	22	26	28	19	35	28	60 μg/m3
	July – 22	18	17	23	16	18	22	19	21	24	16	24	20	Accessed to the second re-
	August – 22	28	17	16	20	22	23	21	25	27	16	28	22	
	September – 22	22	21	24	19	21	18	20	23	21	18	24	21	
							PN	M - 10		,				
Location – 4	April – 22	81	76	72	78	85	79	74	77		72	85	78	
(Near	May – 22	82	84	77	75	81	78	72	76	79	72	84	78	
Dhaurabhata)	June – 22	78	72	79	74	64	52	58	75	64	52	79	68	100 μg/m
	July - 22	50	49	57	48	51	62	43	59	66	43	66	54	-3- PD/ 1111
	August – 22	52	41	42	54	49	61	59	58	60	41	61	53	
	September – 22	46	48	58	46	53	47	52	60	51	46	60	51	
								Nox						
	April – 22	23	21	20	24	22	19	23	21		19	24	22	
	May – 22	26	24	22	25	23	21	25	24	25	21	26	24	80 μg/m3
	June - 22	24	22	28	27	25	19	21	26	22	19	28	24	

	July - 22	22	19	18	21	18	22	17	16	23	16	23	20	
	August – 22	16	13	12	21	16	18	14	13	14	12	21	15	
	September – 22	19	18	22	20	17	20	22	20	22	17	22	20	
								SO ₂						
	April – 22	16	12	11	15	11	13	11	14		11	16	13	
	May - 22	15	13	10	14	15	11	12	14	16	10	16	13	
	June - 22	14	11	13	11	14	12	10	15	13	10	15	13	-
	July - 22	14	12	11	12	9	12	13	11	15	9	15	12	80 μg/m3
	August – 22	10	8	9	12	11	12	8	10	10	8	12	10	
	September – 22	14	12	13	12	11	12	13	11	10	10	14	12	-
							_	1 - 2.5	_	77				
	April – 22	31	24	21	32	30	26	33	27		21	33	28	
	May – 22	27	30	28	32	29	31	26	28	29	26	32	29	
	June – 22	30	25	32	27	23	17	21	25	23	17	32	25	20
	July - 22	17	21	19	18	16	21	16	19	18	16	21	18	60 μg/m3
	August – 22	24	21	18	22	17	21	19	20	23	17	24	21	
	September – 22	20	19	22	16	23	16	19	21	18	16	23	19	
							PN	/I - 10						
	April – 22	74	72	69	79	78	75	81	73		69	81	75	
	May – 22	78	81	76	75	71	82	74	78	75	71	82	77	100 μg/m
	June – 22	72	74	78	70	61	51	54	71	69	51	78	67	
	July - 22	48	46	52	54	43	58	41	53	57	41	58	50	
	August – 22	43	49	42	43	46	48	40	44	52	40	52	45	
	September – 22	45	53	44	37	55	36	38	52	53	36	55	46	
Location – 5	Nox													
(Near Tapranga)	April – 22	26	24	21	23	25	22	25	24		21	26	24	
	May – 22	24	27	25	22	26	24	25	23	26	22	27	25	
	June – 22	25	23	26	24	19	20	21	23	27	19	27	23	
	July – 22	19	17	20	16	19	18	21	17	22	16	22	19	80 μg/m3
	August – 22	16	16	14	16	15	13	19	16	17	13	19	16	
	September – 22	17	20	18	21	19	18	16	19	21	16	21	19	
								SO ₂						
	April – 22	14	12	13	10	12	14	13	12		10	14	13	
	May – 22	16	11	16	12	14	13	14	12	15	11	16	14	
	June – 22	15	11	15	10	13	12	11	14	16	10	16	13	
	July – 22	13	11	9	10	12	11	14	13	12	9	14	12	80 μg/m3
	August – 22	12	12	11	12	10	9	13	12	13	9	13	12	
	September – 22	12	10	11	13	12	11	9	12	15	9	15	12	