ମହାନଦୀ କୋଲ୍ ଫିଲ୍ଡସ୍ ଲିମିଟେଡ୍ महानदी कोलफील्डस लिमिटेड Mahanadi Coalfields Limited (A subsidiary of Coal India Limited)

Project Officer Belpahar Opencast Mine PO:Bandhbahal Dist:Jharsuguda(Odisha)-768211, Ph.(06645) Off-233403, Res-233201

Office of the



Ref: MCL/LKPA/PO/BOCM/ENVT/21-22/6 0 5

.05.202

To,

The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751023.

Kind Attention:

Director (S) MoEF, Eastern Zone Chandrasekharpur, Bhubaneshwar-751023

Sub: Half yearly compliance report for the period October- 2020 to March- 2021 of EC No. J-11015/189/2008-IA.II (M), dtd.22.01.15 w.r.t Belpahar OpenCast Mine, Lakhanpur Area, MCL.

Sir,

Please find enclosed herewith the half yearly compliance report of EC no. J-11015/189/2008-IA.II (M), dtd.22.01.15 for the period October- 2020 to March- 2021 with respect to Belpahar OpenCast Mine, Lakhanpur Area, MCL on conditions given therein.

Thanking you

Encl: As above

Yours faithfully

Belpahar OpenCast Mine

Copy to:

1) Member Secretary, OSPCB, Paribesh Bhavan, Bhubaneswar.

- 2) Regional officer, SPCB Odisha, Plot No .370/5971, Cox Colony, Jharsuguda 768203.
- 3) General Manager, Lakhanpur Area, MCL.
- 4) General Manager(Envt. & Forest), MCL HQ.
- 5) Area Environment Officer, LKPA.
- 6) Nodal officer (Environment), BOCM.

COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE - 9 MTPA

E.C. OBTAINED VIDE No. J-11015/189/2008-IA.II (M) Dated: 22nd January, 2015.

(A) SPECIFIC CONDITIONS:

Sl.No.	Specific Conditions:	Compliances:				
i	The maximum production from the mine at	The maximum production limit of the Mine as prescribed in EC is 9				
	any given time shall not exceed the limit as	MTPA and the coal production is kept within 9MTPA. The coal				
	prescribed in the EC.	production of figures of la	st 5 years is tabulated below:-			
		Year	Production(T)			
		2016-17	8999996			
		2017-18	7052647			
		2018-19	7200010			
		2019-20	7510295			
		2020-21	7520005			
ii	The validity of the EC is for the life of the	The validity of the EC of	Belpahar OCM is for the life of the mi	ine		
	Mine or as specified in the EIA Notification,		EC- 9 MTPA obtained vide No.	J-		
	2006, whichever is earlier.	11015/189/2008-IA.II (M)	Dt. 15 th Jan.2021.			
iii	The modification of the natural drainage of	As per present approved mining plan of Belpahar OCM working,				
	Lilari Nallah flowing through the ML by its		h is not required. Further as per t			
	proposed diversion shall be done so that it is		Integrated Lakhanpur-Belpahar-Lilari O			
	realigned to its natural course at the mine		Nallah is required after the year 2038-			
	boundary and ensure that the downstream		s been provided against the Nallah and			
	users of the water from Lilari Nallah are not		also surface water quality for upstream			
	affected by the proposed diversion. Any		lallah is conducted in half yearly basis a	and		
	embankment constructed along the Lilari	it is found in prescribed li	nits.			
	Nallah shall be established by vegetation	Nie flande is batter i	distribute de control esta con	•		
iv	No fly ash shall be dumped into the de-		ed into the de-coaled void as it an ongo	_		
	coaled void without feasibility studies on	, , ,				
	long term impacts on the aquifers and life	ash will be dumped into the de-coaled void of Belpahar COM				
	systems and without prior approval of the	· ·	on long term impacts on the aquifers a	anu		
	Ministry.		prior approval of the Ministry.	sida		
		•	elines of dumping fly ash in the mine vo	Jius		
		of Belpahar OCM as per it	s approved mining plan.			

V	R&R for 657 PAFs shall be resettled within an agreed time-frame. R&R norms shall be not less that of the National R&R Policy.	1 "				
		Village	No. Of displaced families	Nos. Of Families already Shifted	Balance	Employment provided
		Bandhbahal	0	0	0	31
		Chharla	191	191	0	264
		Darlipali	193	117	76	185
		Jamkani	0	0	0	14
		Jurabaga	27	20	7	392
		Kirarama	5	1	4	70
		Kusuraloi	0	0	0	28
		Kheruabahal	115	47	68	40
		Total	531	376	155	1024
vi	17 to 20 nos of new piezometers covering IB Valley Coalfield shall be installed	A total of 17 piezometers have been installed in IB Valley Coalfield MCL for monitoring ground water level and two of them are und Belpahar Opencast Mine. The location of the piezometers a detailed below 1. Bandhbahal Colony (MIP-07)- location(21° 45′10.95″N and 83°52′6.03″E) 2. Kusraloi Primary School(MIP-08)- location(21° 43′9.95″N and 83°50′3.69″E) The piezometer water quality and depth is studied at regular intervals AND the latest report is enclosed as Annexure-8				o of them are under the piezometers are 21° 45'10.95"N and on(21° 43'9.95"N ed at regular
vii	Dedicated Rail & Road corridor is provided for evacuation of coal as planned by MCL for strengthening and improving the Rail & Road infrastructure at IB Valley Coalfield be expedited.	dispatch BOCM Siding No. 6 is being used for and coal is evacuated in road by trucks covered with tarpaulin. No public road is being				
Viii	Coal is transported from pit head to UTLS & BOCM-6 railway siding by tippers. The distance of coal transportation is 3-4 km. 75% of coal produced (4.5 Mt.) was transported by rail. The remaining coal 1.5 Mty was transported by road. And for incremental production 3.0 MTPA transportation of coal from the mine to consumers shall be 100% through Railway rakes.	transported by rail mode. According to the condition, 7.5 Mt out of 9 Mt coal will be transported by rail which is nearly 83.3% of the total coal transportation. The coal transportation data of BOCM satisfies this condition. During the period April- 2020 to March- 2021				
ix	The production shall be within the same Mining Lease area	456.28 ha.) i.e. Forest Land Non Forest Land Total Excavated	rea is 1444. d : 43.98 d : 412. d Area: 456.	053 ha, ou 36 ha. 294 ha. 28 ha.	ut of which	n Excavated area is
X	The depth of the internal void shall be 35m from the ground level & should be adequate	•				filling in the voids is at 35m from the

	for fishery purpose.	ground level at the time of mine closure, adequate for fishery
		purposes.
хi	All safety measures shall be taken as per CMR, 1957& related Circulars.	Safety measures stipulated under CMR; 1957 as well as CMR; 2017 & related Circulars are being implemented during mining operation.
xii	The production shall be within the same Mining Lease area	Production is being carried out within the Mining Lease area (Mine Lease area is 1444.053 ha, out of which Excavated area is 456.28 ha.) i.e. Forest Land : 43.986 ha. Non Forest Land : 412.294 ha.
		Total Excavated Area: 456.28 ha.
xiii	The OB shall be completely re-handled at the end of the mining and will be backfilled up to the ground level and covered with about a meter thick top soil and put to use. The land after mining shall be brought back for agriculture purpose.	OB is used for backfilling of de-coaled area and concurrently covered with top soil for plantation. Present Status(as on 31.03.2021) Excavated Area : 456.28 ha. Backfilled Area : 384.59 ha. Technically reclaimed : 194.336 ha
xiv	Garland drains be provided	Garland drains (1.5m \times 1.5m) have been provided around the periphery of the mines. Further these drains are being cleaned at regular intervals.
XV	Appropriate embankment shall be provided along the side of the river/Nallah flowing near or adjacent to the Mine.	A seasonal Lilari Nallah is flowing in the mine premises and it will not be disturbed during the mining operations. Embankment have been provided along the side of Lilari Nallah flowing adjacent to the mine and stabilized with vegetation.
xvi	The CSR cost should be Rs.5 per tonnes of Coal produced which should be adjusted as per the annual inflation.	Project authorities are implementing the CSR guidelines as approved by the CIL/MoC, Govt. of India. CSR expenditure of Lakhanpur Area for the year 2020-21 is given in [ANNEXURE -1]
xvii	Everybody in the core area should be provided with mask for protection against fugitive dust emission	Everybody in the core area is provided with dust mask for protection against fugitive dust emission. Dusk masks provided during this period are 190 nos.
xviii	Dust mask to be provided to everyone working in the Mining area.	Dust mask being provided to everyone working in the Mining area (Dust mask provided in the period from October- 2020 to March - 2021 is 190 Nos.)
xix	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.	Supervisory staff ensures that all working personnel in the core area are wearing dust masks. Regular inspections are carried out to ensure safety of all working personnel. A pit head safety committee has been constituted under guidance of Safety Officer for effective implementation of the system.
xx	People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.	People working in mine are undergoing Initial Medial Examination and then in every year 20% of total employees are Periodically medical examined so that within a five year interval all employees could be medically re-examined. Again person those who are attended at the age of 45 years and above are medically re-examined in every three years interval. In the period of October 2020 to March 2021 195 no's of personnel have undergone PME and 32 no's of personnel have undergone IME during this period.
xxi	The mining area should be surrounded by green belt having thick closed thick canopy of the tree	The mining area is surrounded by Government Non forest land, tenancy land and Forest land. Plantation has been carried out in all the area under possession of the project. Further 75000 No's, of saplings have been planted in nearby villages of the project through DFO, Jharsuguda. Mining area Plantation has already been done in total 416.63 ha areas. (Ex. OB dump- 55.33 ha, Back filled area- 108.80 ha, Block plantation- 252.50 ha.). Further 24 Km of plantation has been done along road side. Plantation is being done by Chattisgarh Rajya Van Vikas Nigam Ltd and Odisha Forest Development Corporation Limited at various sites. Density is kept at 2500 plants/ha.

xxii	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilized with plantation so as to withstand the peak water flow and prevent mine inundation.	A seasonal Lilari Nallah is flowing in the mine premises and it will not be disturbed during the mining operations. Embankment have been provided along the side of Lilari Nallah flowing adjacent to the mine and stabilized with vegetation to withstand the peak water flow and prevent mine inundation.
0xxiii	There shall be no over flow of OB into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the Project.	OB is dumped within the mining lease of the project, so there shall be no overflow of OB into the agricultural fields. Plantation is carried out in the area between seasonal Lilari Nallah and the mining area.
xxiv	OB shall be stacked at five earmarked external OB dump site(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest & Climate Change and its concerned Regional office on early basis.	The project has already five earmarked external OB dumps of area 55.33 ha. Ultimate Slope of the dumps is kept below 28°C. Monitoring of the dumps are carried out at regular intervals and management of reclaimed dump sites with vegetation has been completed and the vegetation have become self-sustaining. Compliance status of the same is being submitted to the Eastern Regional Office, MoEF Bhubaneswar. Previous compliance report was submitted vide no. MCL/LKPA/PO/BOCM/ENVT/20-21/2455 Dated: 25.11.2020
xxv	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flow from soil, OB and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development, etc., The drain shall be regularly de-silted and maintained properly. 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.	Garland drains and sumps (2 nos., total sump Capacity is 22,70,000 m³) of adequate capacity, keeping in view of sudden peak rainfall, has already been provided to retain the setting of the silt materials. The retention period for the water is also sufficient for siltation purpose. The water so collected are utilised in mining area for water sprinkling for dust suppression, green belt development etc. Catch drains are regularly de-silted and maintained every year
xxvi	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check runoff and siltation shall be based on the rainfall data.	Progressive backfilling of OB is being carried out in the voids. Further step dumping with height of less than 30m is being carried out. Catch drains have been provided at the toe of the OB dumps to check runoff and siltation. Catch drains are regularly maintained departmentally.
xxvii	Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads transfer points, etc.	CHP is currently not in operation and coal is extracted using two nos. of Surface Miners. During the year 2020-21, 95.46% coal is extracted using Surface Miner.

				Page 5 of 11
xxviii	Drills shall be wet operated, Roads shall be metal topped and mechanical sweepers shall be regularly deployed to clear the dust off the main approach and mineral transportation roads. Water sprinkling (fixed and mist type, mobile) shall be regularly done along the main haul roads.	provided with NVE d transportation roads tankers are in opera roads to control fugi sprinklers are installe cannon of 40m radial of Fixed type Fog Can	ust extractor. All of are of WBM and 4 notion on the haul rotive dust emission. Find in CT roads. A most throw has been common have been installed no.s of trolley noticed.	wet operated and also the haul roads and coads. of 28 KL mobile water ad/ coal transportation further 16 Nos. of fixed bile truck mounted for missioned. Also 03 no. alled for dust suppression nounted Fog cannon is exard.
xxix	The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads.	transportation is carri	ied out on regular ba	of roads used for minera sis. Plantation consisting ng the major approacl
xxx	Controlled blasting shall be practiced with use of delay detonators and only during daytime. Themitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	Lr.0101688/SE-2/Bhul	baneswar Regio t.17/06/2019.by use of explosives in the sho	
		100-150	46	25
		150-200	20	50
		200-250	30	50

		01
Distance between blasting side & villages (meters)	No. of holes	Max. charge Par delay (kg)
100-150	46	25
150-200	20	50
200-250	30	50
250-300	40	55
300-500	50	55

Blasting is conducted with muffling arrangement by sand bag on each hole.

XXXI

A Progressive afforestation plan shall be implemented covering an area of 800.572 ha at the end of mining, which includes reclaimed External OB dump area (50.33 ha), Excavation area (448.94 ha), top soil dump (5 ha), road and infrastructure (76.502 ha), undisturb area and green belt (10 ha) and in township located outside the lease by planting species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a-3 tier avenue plantation along the main approach roads to the mine.

Progressive afforestation Plan is implemented

A. Plantation on OB Dump / Block etc

SI	Location of	Area in Ha.	No. of
No.	Plantation		Plantation
1	Back Filled Area	108.80	266750
2	Ext.OB Dump	55.33	138250
3	Block Plantation	252.50	375264
	Total	416.63	780264

B. Avenue Plantation 24.00 Km 38400nos.

Grand Total 818664 nos.

Density of the trees are 2500 plants per ha.

xxxii	An estimated total 234.968 Mm³ of OB will be generated during the entire life of the mine. Out of which 19.00 Mm3 of OB will be dumped in five external OB Dumps an earmarked area covering 55.33 ha of land with height of 20 to 30 m. 215.968 Mm³ of will be of one internal OB dump in covering an area of Final Area 448.94 ha with height of 40m up to ground level. The maximum height of external OB dump for hard OB will not exceed 90m The maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed	The OB excavated is being backfilled concurrently. Till date 168.864 Mm3 of OB has been excavated and it has been backfilled. Maximum height of external OB dumps is kept below 90m and slope is kept below 28°. Monitoring of the dumps are carried out at regular intervals and management of reclaimed dump sites with vegetation has been completed and the vegetation have become self-sustaining Compliance status is being status to Eastern Regional Office, MoEF on half yearly basis. Previous compliance report was submitted vide no. MCL/LKPA/PO/BOCM/ENVT/20-21/2455 Dated: 25.11.2020			OOm and ed out at tes with become e, MoEF eted vide			
	dump sites shall continue till vegetation becomes self-sustaining and compliance status shall be submitted to MOEF and its Regional Office yearly basis.			/5			I De el cie	
xxxiii	The proponent should prepare restoration		Degraded .				l Reclaim	
	and reclamation plan for the degraded area.	Forest		orest	Total	Tech	Bio	Bio
	The land be used in a productive and		Govt.	Tenan	-		(int)	(ext)
	sustainable manner.	43.986	228.063	184.23	1 456.28	194.336	108.80	55.33
xxxiv	Compensatory Ecological and Restoration of	and wor product Plantati	rk is being c ive and sust on is carried	arried o ainable d out or	the OB du	ously. Lan	d is being	g used in
	waste land, other degraded land and OB		al and resto			T		
	dumps in lieu of breaking open the land be	SI	Location	of	Area in Ha.	No.	of	
	carried out.	No.	Plantation	_		Plantatio	on	
		1	Back Filled		108.80	266750		
		2	Ext.OB Dun	•	55.33	138250		
		3	Block Plant	ation	252.50	375264		
			Total		416.63	780264		
xxxv	The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.	burden	dump are cr	eated.	in sustaina			
xxxvi	No ground water shall be used for mining				ised for min			
	operations.			-	stored in		•	
				-	ing used for		purposes	s such as
vvvaii	Of the total quarry area of 606 E02 ha. The				ting purpose ons are un		000 100	200 Ha
xxxvii	Of the total quarry area of 606.503 ha. The backfilled quarry area of 448.94 ha. shall be			-	with 266750			
	reclaimed with plantation and a void of			-	f 40 meter v	•		
	157.563 ha. At a depth of 40m which is				and uppe			
	proposed to be converted in to water body				ı / Afforesta			
	shall be gently sloped and the upper benches		•		local DFO	•	•	
	shall be terraced and stabilised with				around 2500		•	
	plantation/afforestation by planting native	,		·				
	plant species in consultation with the local							
	DFO/Agriculture Department. The density of							
	the trees shall be around 2500 plants per ha.							

xxxviii	Regular monitoring of groundwater level and quality shall be carried out by established a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (may),monsoon (august),post	carried out by CMPDI of existing wells. The monitoring for quality is being done four times a year in pre-monsoon (may), monsoon (august), Post monsoon (November) and winter (January) and data is submitted to MoEF & CPCB. Present data is:			
	monsoon (November) and winter (January)	Date of	Location	Depth below	
	seasons and for quantity in May. Data thus	measurement		GL (m)	
	collected shall be submitted to the Ministry	19.05.2020	Chharla village well	2.79	
	of environment, forest and climate changes	19.02.2020	Chharla village well	2.84	
	and the central pollution control Board	14.08.2020	Chharla village well	1.45	
	quarterly within one month of monitoring.	09.12.2020	Chharla village well	6.90	
		28.01.2021	Chharla village well	7.10	
			oliance report was submi OCM/ENVT/20-21/2455 Dated: 2		
xxxix	The company shall put up artificial groundwater recharge measures for augmentation of groundwater resources. The project authorities shall meet water requirement of nearby village(s) in case the village well go dry due to dewatering of mine.	Project Office, and canteen of Belpahar OCM. Further the water stored in mine sumps acts as a natural groun water recharge measure. Project authorities are supplying drinking water to meet water			
xl	Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.	Sewage Treatment Plant (Capacity: 1.7 MLD) is in operation at			
xli	Beside carrying out regular periodic health check-up of their workers,10% of the workers identified from workforce engaged in active mining operation shall be subjected to health check-up for occupational diseases and hearing impairment, if any ,through an specialised agency/institution within the district/state and the results reported to this Ministry and to DGMS.	employees is ma / above are re-ex • Medical to March	, and the second	ettending 45 years rval. om October-2020	
xlii	Land oustees shall be compensated as per the norms laid out R&R Policy of CIL; or the national R&R Policy of the state government whichever is higher.	followed which is employment, Plant House building an According the polyment R&R polymer R	mpensation and employment, of developed with provision of dringly club, school, road, drains, becon. Acquired phase wise as the mineages. Fresh assessments of affects acquisition & It is being implent guidelines of CIL and State Governments.	ensation in lieu of of plot, Annuity, as per policy. more than that of one rehabilitation withing water, pond, bundary wall and working advances ofted families, etc. mented as per the ernment. Present	

xliii	For monitoring land use pattern and for post mining land use, a time series of land 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& CC and its concerned Regional office.	CMPDI procures satellite data from NRSC on yearly basis and prepares land use map of each open cast mine, thus a time series of land use maps are being generated on yearly basis. Report of 2019 based already submitted to MoEF & CC. The report has been uploaded in the following link at http://www.mahanadicoal.in/Environment/satelite_map.php and also enclosed as Annexure -7 Previous compliance report was submitted vide no. MCL/LKPA/PO/BOCM/ENVT/20-21/2455 Dated: 25.11.2020
xliv	A detailed Final Mine Closing Plan along with details of corpus fund shall be submitted to the Ministry of Environment, Forest & Climate Change within 6 months of grant of Environmental Clearance.	Mine Closure Plan has been approved by MCL Board. An amount of Rs. 1,521,580,499.00 is available in Escrow account of Belpahar OCM as on 31/03/2021 in the account number 365203800000322(Old) and 380-973(New). Previous compliance report was submitted vide no. MCL/LKPA/PO/BOCM/ENVT/20-21/2455 Dated: 25.11.2020
xlv	The project authorities' shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.	Project authorities are constantly in touch with the Panchayats of local villages and administration to identify socio-economic and welfare measures. Such as- provision of drinking water, Construction of Schools & Hostels, deepening of existing ponds. For the year 2020-21 a tentative amount of 425.63 Lakhs has been spent for CSR works in Lakhanpur area. The action plan for CSR activities for the year 2020-21 is attached as [Annexure-1].
xlvi	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 in to 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 non-compliances/violations of environmental norms to the Board of Directors of the company and/or	Company has an approved Environment policy named Corporate Environment Policy 2018 which states that "Coal India Limited(CIL) is committed to promote sustainable development by protecting the environment through integrated project planning & design, prevention / mitigation of pollution, conservation of natural resources, restoration of ecology & biodiversity, recycling/ proper disposal of wastes, addressing climate change and inclusive growth. It also aims to bringing awareness amongst its stakeholders for continual improvement in environmental performances following best practices. Environmental Management Structure at MCL General Manager(Env) Staff Officer(Env) Manager (Env) & Staff Officer(Env) Manager (Env) & Staff Officer(Env) Manager (Env) & Staff Officer(Env) Line Management Line Management Manager (Env) & Staff Officer(Env) Manager (Env) & Staff Officer(Env) Staff Officer(Env) Project Engineer(Cxv) Project Unrey Officer Colliery Manager Areas Staff Officer(Exv) Project Engineer(Exv) Project Survey Officer Cofficer(Exv) Project Survey Officer
1	shareholders or stakeholders at large.	Other General Managers of HQ

(B) GENERAL CONDITIONS

	(b) GENERAL CONDITIONS	
i	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, forest & climate change.	Shovel – Dumper combination for OB and Surface miners for coal extraction is being carried out. No change in Mining technology and scope of work from current one will be made without approval of Ministry of Environment, Forest & Climate Change.
ii	No change in the calendar plan of production quantum of mineral coal shall be made.	No change in the calendar plan including quantum of mineral coal produced will be made.
		Year Production(T) EC Capacity (MTA)
		2016-17 8999996 9
		2017-18 7052647 9
		2018-19 7200010 9
		2019-20 7510295 9 2020-21 7520005 9
iii	Four ambient air quantity monitoring stations shall	Four No's of air monitoring station viz. Near Magazine
	be established in the core zone as well as in the buffer zone PM2.5, PM10, SO2 and NOX monitoring. Location of the stations shall be decided based on the metrological data, topographical feature and environmentally and ecologically sensitive target in consultation with the State Pollution Control Board. Monitoring of heavy metal such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.	House, East of the mine, Near Central Workshop and South of the Mine have been established based on environmentally & ecologically sensitive location criteria in consultation with State Pollution Control Board after approval from SPCB, Jharsuguda vide L. No MCL/GM/LKPA/Envt/2019-20/153 dated 31.01.2020 (Enclosed as Annexure 2(A) . SPM, SO ₂ , NO _x , PM ₁₀ and PM _{2.5} level in the ambient air are monitored. As suggested, monitoring of heavy metals such as As, Ni, Cd, Cr. is being done at least once in six months at locations fixed in consultation with SPCB, Jharsuguda.
iv	Data on ambient air quality (PM10, PM2.5, SO2 and NOX) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the ministry including its concerned Regional Office and to the State Pollution Control Board and the central Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.	Ambient air quality (PM_{10} , $PM_{2.5}$, SO_2 and NO_x) and heavy metals such as Arsenic, Nickel, Chromium and Cadmium are being monitored and the report is submitted to the Ministry including its concerned Regional Office and to the Odisha State Pollution Control Board. The report for the period from October-2020 to March-2021 has been attached in [ANNEXURE-2 & 3].
V	Adequate measure shall be taken for control of noise level below 85 dBA in the work environment. Workers engaged in blasting and drilling operators, operation of HEMM, etc shall be provided with ear plugs/muffs.	Adequate measures are taken to control the noise level in the work environment. Ears plugs/ muffs are provided to the workers engaged in blasting, drilling and operation of HEMM. No. of ear plugs/muffs provided in the period October-2020 to March-2021 is 90. Noise level monitoring data is attached as [ANNEXURE-4].
vi	Industrial waste water (workshop and waste water 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 December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	The effluent generated from the workshop is treated in ETP containing primary settling tank, oil and grease skimmer and secondary settling tank which is re-used for vehicle washing. Mine discharge is stored in mine sumps and it is re-used for dust suppression and plantation. The quality of effluent from outlet of ETP is monitored regularly and effluent monitoring report is attached as [ANNEXURE-5].
vii	Vehicular emission shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Vehicular emissions are kept under control and regularly monitored. A PUC certificate of the vehicles used for transportation of coal is regularly monitored. Vehicles used for transportation of coal are covered with tarpaulins and loaded to the optimum quantity only.

viii	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EPA Rules, 1986.	Monitoring of environmental quality parameters such as Air, Water, and Noise is being carried out by CMPDIL which is a NABL accredited agency on fortnight/monthly/quarterly basis.
ix	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.	During the period October-2020 to March-2021, 190 protective respiratory devices were provided in addition to the existing ones. They are given adequate training and informed on use of protective respiratory devices.
х	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contraction due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	The health of workers engaged in mining operation is being periodically examined once in five year to observe any contraction due to exposure to coal dust and if needed corrective measure are taken. Frequency of examination is reduced to 3 yrs. for those who are more than 45 yrs old. 195 nos of employees have been examined from October-2020 to March-2021.
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.	Environment management cell has been established in project as well as area and head quarter level. At project level, Nodal Officer(Envt) is reporting to the Project Officer directly, Area Environment is heading the Area Environment Cell and reporting to the General Manager, Lakhanpur Area directly. At HQ. level, G.M.(Envt.) is heading the company's environment dept. and reporting to Director (T/ P&P) Environmental Management Structure at MCL Control Management Staff Officer(Env)
xii	The funds earmarked for environmental protection measure 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 concerned Regional office.	Separate account will be maintained for environmental protection measures. Year wise expenditure is being reported to the OSPCB, Bhubaneswar and to the Regional Office, MoEF through Form V (Environmental Statement). The Environmental Expenditure during the year 2019-20 is 272.89 Lakhs.
xiii	The project authorities 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 is available with the State Pollution control Board and also be seen at the website of the ministry of Environment, forests& Climate changes at http://envfor.nic.in.	Advertisement was made in two newspapers namely The New Indian Express & Dharitri (Odia daily) on Dt. 29.01.15 enclosed as [Annexure 6].

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on C	A copy of the environmental clearance letter shall be marked concern Panchayat / ZilaParishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion / representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.	Copy of EC was sent to three local panchayat's Sarpanch office namely Bandhbahal, Sarandamal and Kusraloi on 1.3.15.(all three). Further, it has also been placed on M.C.L.'s website "www.mahanadicoal.in".
xv	A copy of the environmental clearance shall be also displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the regional Office, District Industry Sector and Collector's Office / Tehsildar's Office for 30 days.	Copy of the Environmental Clearance is being displayed on the website of Odisha State Pollution Control Board. The EC letter was displayed at the regional Office, District Industry Sector and Collector's Office / Tehsildar's Office for 30 days.
xvi	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the Project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical Pollutant such as PM ₁₀ ,PM _{2.5} , SO ₂ ,and NOx(ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in the corporate office and on company's website.	The Environmental Clearance copy was uploaded on MCL website "mahanadicoal.in" Monitoring data of environmental quality parameters (air, water, noise) and critical Pollutant such as PM ₁₀ ,PM _{2.5} , SO ₂ ,and NO _x (ambient) and critical sectoral parameters is displayed at the entrance of Project Office of Belpahar OpenCast Mine and on MCL website "mahanadicoal.in".
xvii	The Project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Officers of CPCB and the SPCB.	Half yearly Report for the period April-2020 to September-2020 was sent to Eastern Regional Office, MoEF and Odisha State Pollution Control Board vide letter no: MCL/LKPA/PO/BOCM/ENVT/20-21/2455 Dated: 25.11.2020
xviii	The Regional Office of this Ministry located in the region shall monitor compliance of the stipulated conditions. The project authorities shall extend full co-operation to the Officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports	The project authorities are extending full co-operation to the officer(s) of Regional office and all necessary data/information/monitoring reports are provided to them, as desired.
Xix	The environmental statement for each financial year ending 31 March in form — V is mandated to be submitted by the Project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF & CC by e-mail.	The environmental statement for the financial year ending 31 st March, 2020 in Form – V was submitted to Odisha State Pollution Control Board vide L.No: MCL/HQ/Envt. & Forest/2020/157 dated 28.09.2020 and also uploaded on the MCL's website "mahanadicoal.in" along with the status of compliance of EC conditions and sent to the Eastern Regional Office of the MoEF&CC by e-mail.

Project Officer
Belpahar OpenCast Mine

FORM -I MINISTRY OF ENVIRONMENT & FORESTS, REGIONAL OFFICE MONITORING PROFORMA PART-I (DATASHEET)

1		Project type	:	Mining Industry						
2		Name of the Project	:	Belpahar Opencast Mine						
3		Clearance letter(s) OM No. & date	:	No. J-11015/189/2008-IA.	II (M), Dt. 15th					
				Jan.2021.						
4	a	Location District	:	Jharsuguda						
		State		Odisha						
	b			21°42'20" to 21°47'00"						
		Longitude		83°49'35" to 83°53'00"E						
5	a	Address of concerned Project Chief Engineer	:	Office of the Project Office Belpahar OCM, Lakhanpur						
			PO:Bandhbahal Colony	Alca						
				Dist:Jharsuguda(Odisha)-76	58211					
				Ph.(06645)-233403						
				, ,						
	1	All CE C D C		1						
6		Address of Executive Project Engineer/Manager	:	-do- Mineable reserve	26.40 MT					
O	a	Salient features of Project	•	Milieable reserve	(as on					
					01.04.2020)					
				Target output	9 MTPA					
				Average stripping ratio	1.95					
					1.55					
				Project life	3 years					
	b	Details of the Environmental Management Plans								
			a	Pre-mining Envt. Scenario						
				Envt. Impact analysis						
			c	Pollution control measures						
				dust prevention & suppress						
				of water pollution control r and Grease Skimmer, SST,						
				Bio-Reclamation	Backinning, Tech,					
			d	Envt. Monitoring etc.						
7		Breakup of the Project area		<u> </u>						
-	a			No submergence area						
		,	a	Forest	123.220 ha					
			b	Non-forest	1320.833 ha					
	b	Others(Private Land)			59.63 ha					
8		Project Displaced Families		SC	131					
0		Troject Displaced Faillines	a	SC	131					
			Ь	ST/ Adivasees	281					
			c	Other	119					
0		F' '1D''		Total	531					
9										
	a				Rs.307.63 crs					
9	a	Financial Details Project cost as originally planned and subsequently revised estimates and the years of price reference			Rs.307.63 c					

	Allocation made for environmental management plans, with item wise & year wise breakup Benefit cost ratio/ Internal rate of return and the year of assessment	-
	d Weather 9(c) includes the cost of Environmental Management Plan so far	Yes
	Expenditure on environmental management	During 2019-20 ₹272.89 Lakh
	f Actual expenditure incurred on the Environmental Management plans so far	-
10	Forest requirements	
	The status of approval of diversion of forest land for non-forestry use	103.52 ha : 8-104/91FC dt.02.06.2000 19.70 ha: 80-104/91FC dt.16.09.2014
	b The status of compensatory afforestation.	Money deposited with State Forest department
	The status of tree felling	Tree felling is being done through OFDC Ltd. With permission of State forest dept. as per progress of the project.
11	Comments on the viability and sustainability of Compensatory afforestation programme in the light of actual fields experience so far.	Satisfactory.
12	Status of construction	
	Date of commencement(actual and/or planned)	11.09.1983
	b Date of completion (actual and/or planned)	2022-23
	Present status of the Project	Running as planned.
13	Reason for the delay if the Project is yet to start.	Not Applicable

FORM-II PROFORMA FOR PROVIDING INFORMATION ON REHABILITATION

1	No. of villages affected :	ONG INFORMATION ON R 05 (Five)				
2		531 nos. Displaced				
3	_	Besides land compensation rehabilitation sites have been drinking water, ponds, wells, roads, drains, school, bour dispensary.	n developed with p community club, pu	rovision of ija mandap,		
4	Budget estimate for Rehabilitation					
A	_	8.07 crores(CC inlieu of Plot+ HBA+ Incentive)				
В	Amount paid/ used :	4.7 crores				
	Employment details-			_		
5 A	provided	280 nos#				
В	1 5 &	1024 nos				
	Name of the village	Employment provided (nos)	under consider	ration		
	Bandhbahal	31	0			
	Chharla	263	2			
	Darlipali	185	12			
	Jamkani	14	0			
	Jurabaga	392	0			
	Kirarama	70	0			
	Kusuraloi	28				
	Kherualbahal	40				
	Total	1024	15			
6	Rehabilitation & Resettlement details	Rehabilitation Site + Cash Co	ompensation+ Annuit	y		
A	No. of families rehabilitated i) Name of site :	Khadam-I & Khadam-II				
	ii) Families Rehabilitated :	(Including own choice cash c	ab. Site)	lieu of Plot at		
	Name of the Village	No of displaced families	Nos of families already shifted	Balance		
	Chharla	191	191	0		
	Darlipali	193	117	76		
	Jurabaga	27	20	7		
	Kirarama	5	1	4		
	Kerualbahal	115	47	68		
	Total	531	376	155		
В	Family yet to be Rehabilitated	1 771 1 7				
	i) Name of the site :	1. Khadam-I				
		2. Khadam -II				
	ii) Nos. of family :	531 nos.#				
7	Any other information :	-				

FORM -III

MINISTRY OF ENVIRONMENT & FORESTS

EASTERN REGIONAL OFFICE

A/3, CHANDRASEKHARPUR, BHUBNESWAR-751023 (ODISHA)

FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT/ PLANTATION UNDER F(c) ACT 1980 AND EP ACT 1986

1	a)	Name of the organization	:	BELPAHA		ST PROJECT	Г, 9 МТҮ							
	b)	Envt./Forest clearance order Nos	:	EC No J-11	015/189/200 04/1991-FC(` /								
2		Location,Block/Sub.Div./Dist/State	:	Ib Valley C Banaharpali Jharsuguda,	oalfields, Te , District									
3		Address of communication	:	Office of the Project Officer, Belpahar OCM, Lakhanpur Area, PO: Bandhbahal Colony, Jharsuguda, Odisha-768211, Ph-(06645)-233403										
4		Existing vegetation in the area/region		Commercial crops	Agricultural Crops	Road side plantation	Natural vegetatio n	Scrubland species						
	a)	Species (CI: 1)	:	Baigana Miricha Kakudi	Mung Biri Kolatha	Sirisha Gamhari Jamun	Kendu Bheru Jamu	Apamaranga Bhuin Nimba Khadika						
		(Trees/Shrubs/Grasses/Climbers)		Kakharu Simba Kadali Bhendi	Badam Piaja Rasuna Sorisha	Karanja Gohira Babul Patash	Sal Dhaura Kurei Khajuri	Mutha Talamuli Dauria Bajramuli						
				Khira Mula	Makka Sugarcane	Peepal Mango	Chara Kuruda	Bana Kolatha Marda						
				Lemon, etc.		Bara,etc.	Sunari, etc.	Langulia, etc.						
	b)	Major prevelant species of each type	:	•		nja, Babul, J es in the proj		go etc. are						
5		Land coverage by the Project												
	a) b)	Total area under Project Area covered for basic infrastructure	:	1503.683 H 382.51 Ha	a									
6		(Roads/Buildings/Factory etc.) Details about Natural vegetation												
U	a)	Name & number of tree/species felled	:	1	ees (in Nos.)	e at the Project: 864(2015),								
	b)	Name & number of plant species still available in the area	:	Data not ava	ailable for nu	amber of specias per EMP a								
	c)	By protecting the area will indigenous	:		tation measu stock to com	res must be t e up.	aken in ord	er for						
7		Plantation required to be carried out as per												
	a)	Condition of Environment clearance in Nos/ha.	:	2500 Nos./h	ıa									
	b)	Condition of Forest (c) Clearance in Nos/ha.	:	not mention										
	c)	Voluntarily in Nos./ha	:	2500 Nos./h	ıa									
8		Details about Plantation												

a) Total area available for plantation in each category

i) Green Belt ii) Dump

: Backfilled area of 74.691 Ha is available only out of the 5 categories

ii) Dumps iii) Back filled area

iv) Road sides

v) Block plantation

Plantation done 355.14 ha in the buffer of internal zone around OB dumps office buildings will be as well as grass External OB carpeted

108.80 ha of the total backfilled area of 183.419 ha has been biologically reclaimed

Includes the avenue plantation done along colony road sideTotal length of 24 km planted with 38,400 saplings along colony road

Total area of 252.50 ha has been planted with 375264 saplings with no additional area left

b) Plantation details (category wise & Methodology)

Year of	Species planted	C			
plantation	species planted	Spacing	Height attained	Total area	Area still available
	Caria Ci. I			covered	
2018	Casia Simla, karanja, amla, sisoo, ganga imli ,ber,sirus, cashew, guava, peltafarm, neem, parkinsonia, kathal, mengium ,jamun, sita fruits, krishnchuda,	2 m x 2m	Minimum 3-4 feet at the end of 5 years when the Agency hand over the plants	416.63 Ha	74.619 Ha area out of the presently backfilled

c) Survival % of plantation

: More than 80%

d) Total plantation

dumps

: 818664

Agency carrying out plantation & maintenance

OFDC & Chhattisgarh Rajya Van Vikas Nigam Ltd.

Financial details (year wise and item wise)

Sl.No.	Year	Expenditure made (in Rs.)	Average cost each surviving plants in Rs. (Plantation scheme valid for three years)
1	2010-11	12,07,948.00(COMPLETE)	120.80(final)
2	2011-12	43,39,122.00(COMPLETE)	197.23(final)
3	2014-15	21,08,244.00(ONGOING)	. 140.55(maintenance till 3rd)
4	2015-16	17,49,920.00(ONGOING)	116.67(maintenance till 2nd)
5	2017-18	5,88,960.00(ONGOING)	39.26(only plantation cost yet)
6	2018-19	2,94,490.00	39.26

Inspection of plantation field experts and their comments and

Inspected by DFO, Sambalpur & D.M. Chhattisgarh Rajya Van Vikas Nigam Ltd. Survival was found more than 80%

follow up action

Remarks/ any other information NIL

Signature of Incharge

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Date: 27.05.2021

	CSR Expenditure of Lakhanpur Area during the year 2020-21 (Lakhs)	
S.No.	Description of work	Expenditure (Rs. in lakhs
1	Development of basic infrastructure Negipali site for resettlement of poor Sukhbasi families of affected villages of Lakhanpur Area	76.45
2	Supply of drinking water to village Tingismal at LKP OCP under LKPA (AP-5)	4.74
3	Supply of drinking water to villages Luhurapada & Sahajbahal at LKP OCP under LKPA (AP-3)	3.88
4	Supply of drinking water to village Ubuda at LKP OCP under LKPA (AP-4)	4.02
5 6	Construction of cc Road Andhapara(Pada no 1) at Kushraloi Gram Panchayat	5.00 0.70
7	Construction of community centre at Kudaloi village of Kudaloi GP.	16.54
8	CONSTN. OF KALYAN MANDAP AT BASUPALI VILLAGE OF DALGOAN GP	-2.89
9	Supply of drinking water to Tingismal village	0.00
10	Supply of drinking water by 8kl capacity water tanker to village Tingismal at LKP OCP	0.89
11	Supply of drinking water to different villages of of Lakhanpur Area ph-II	0.00
12	Supply of drinking water by 8kl capacity water tanker to village Ubda at LKP OCP	1.44
13	Supply of drinking water by 8kl capacity water tanker to village Karlajori and Khaliapali at LKP OCP	1.77
14	Supply of drinking water by 8kl capacity water tanker to village Luharpada and Sahajbahal at LKP OCP	1.58
15	Supply of drinking water to village Kherualbahal & Lechipada under CSR	0.80
16	Supply of drinking water to village Darlipali under CSR	0.49
17	Improvement of Dalgaon Kanta(Pond) & constn of bathing steps.	9.84
18	Construction of Boundry wall of Kalyan Mandap and CC Road near Filter plant at Bandbahal Gram Panchayat	12.90
19	Supply of drinking water to diffrent village at BIT	-0.83
20	Supply of drinking water to Darlipali village under BOCM (AP-1)	4.80
21	Supply of drinking water to village Karlajori & Khaliapali at LKP OCP under LKPA (AP-2)	4.67
22	Supply of drinking water to villages Sunari, Remanda, Tilia, Phatapali, Negipali, Badmal, Kansbahal, Senhamal, Cherketa (Phase-II) under BIT for 60 days (SP-2)	9.96
23	Supply of drinking water to villages Jurabaga, Majhipada and Muchabahal under BOCM for 90 days (SP-8)	4.18
24	Supply of drinking water to villages Baghamunda, Dasrupali, Dasrupali (Mundapada), Gopipali and Salepali under BOCM for 90 days (SP-7)	7.01
25	Improvement of Padapali Kanta with new bathing Ghat near Bejikud at BOCM	0.00
26	Errection of new 11kv & 440 vt power supply for resetelment of sukbasi families affected village under CSR	19.41
27	Supply of drinking water by water tanker at Belpahar N.A.C.(lead 8 Km) by 5 KL capacity water tanker at BIT.	0.08
28	Constn. Of urinal, toilet and bathroom for Majhipada School under Bandhabahal G.P	0.00
29	Supply of drinking water to villages Belpahar NAC, Lakhanpur Block, Jagdalpur (Phase – III) under BIT for 60 days (SP-3)	4.76
30	Supply of drinking water to villages Gopipali, Talibahal, Limtalipada, Khaliamunda (Phase – IV) under BIT for 60	5.68
31	days (SP-4) Providing display board for CSR works	-0.06
32	Improvement of Snehmal Kanta (pond) and construction of bathing steps under Dalgaon G.P.	10.23
33	Construction of boundary wall with gate at Manoj Padhee High School, Sarandamal village.	15.23
34	Supply of drinking water to village old Khairkuni, new Khairkuni, Chuchapada, Jaybidia & Changapada in LKP OCP CSR	5.02
35	Construction of Kalyan Mandap at Banjari in Banjari Gram Panchayat	17.49
36	Construction of Kalyan Mandap at Bartap in Banjari Gram Panchayat	17.59
37	Construction of Kalyan Mandap at Jaybudia in Banjari Gram Panchayat	17.40
38	Excavation of new pond at Banjimunda under Lakhanpur OCP of LKPA	-0.79
39	Supply of drinking water by 8kl capacity water tanker to village Kudaloi, Chingiriguda, Bichupada,Gangapada,Dahaldera,Bholamal,Thakurpada,Bazarpada at LKP OCP	0.00
40	Supply of drinking water to villages Kudaloi, Chingriguda, Bichhuapada, Gangapada, Dahaldera, Bholamal, Thakthakipada and Bazarpada at LKP OCP under LKPA (SP-6)	7.38
41	Supply of drinking water to villages Bejibandh, Piplikani, Satlang, Batlang, Vejikudh, Padapali, Old Vejikudh, Phata, Karpabahal, Dhubentipi, Baragada, Khapsimunda, Khamardihi, Khadam, Kirarama (Phase-I) under BIT for 60 days. (Summer Package-1)	10.64
42	Construction of CC Road at Jamuna at Kushraloi Gram Panchayat	6.91
43	Supply of dirinking water to different villages by 8kl capacity water tank at BIT(Under csr)	0.00
44	Supply of drinking water by water tanker at Limtalia pada and Khaliamunda (lead 8 Km) by 5 KL capacity water	0.02
15	tanke at BIT/LKPA. Sumply of deinking water by water tanker at Conjugli (lead 15 Km)	
45 46	Supply of drinking water by water tanker at Gopipali (lead 15 Km) Supply of drinking water by water tanker at Phata village (lead 4 Km) by 5 KL capacity water tanker at BIT.	0.06
47	Development of Talbern kanta (pond) at Carpali of Rampela under CSR	0.00
48	Constn. Of bathing ghat steps at Bichupada village pond	0.00
49	Constn. Of bathing ghat at village Kudaloi	0.00

50	Constn. Of 02 nos bathing ghat at village Karlajori	0.00
51	Constn. Of bathing ghat at village Balundu	0.00
52	Constn. Of 2 nos bathing ghat at Ramplela village	0.00
53	Procrement & distribution of necessary materials to the needy poor & senior citizens by Mahila Mandal of LKPA.	-1.20
54	Constn. Of community mandap at Mandirpada in village PHATTA UNDER Sarandamal GP at BOCM	-0.19
55	Supply of drinking water by wat er tanker at Karpabahal, Dhubentipi, and Baragada (Lead 2-4 Km) by 05 KL capacity water tanker at BIT/LKPA.	0.05
56	Supply lof drinking water by water tanker at Negipali, Badimal, Kansbahal, Senhamal and Cherkata under Doalgoan Panchayat (lead 11 KM) by 12 KL Capacity water tanker at BIT.	0.01
57	Supply of drinking water by water tanker at Lakhanplur Block (lead 15 Km) by 12 KL Capacity water tanker at BIT/LKPA.	0.01
58	Supply of drinking water by water tanker at Sunari G.P. (lead 20 Km) by 12 KL Capacity water tanker at BIT.	0.03
59	Renovation of Thebra Muternali kata/pond under Bhoukhol G.P of Lakhanpur Area	-5.71
60	Construction of concrete road from Talipada to Goudapada connecting main road with drain system on both side of road.	47.93
61	Improvement of Bejibandha Kanta(pond) & constn of new bathing ghat under Pipilikani of BOCM	-0.28
62	Completion of Drain at Shanti nagar at Bandhbahal Gram Panchayat	11.71
63	MAKING OF WATER SUPPLY ARRANGEMENT NEARLY CONSTRUCTED TOILETS UNDER SWACHHA ABHIJAN UNDER LKP OCP	0.00
64	P&M WATER SUPPLY ARRANGEMENT FOR 29 NOS TOILETS UNDER SWACHHA ABHIJAN UNDER BOCM	0.77
65	Supply of drinking water to villages under CSR	0.00
66	Supply of drinking water to villages Kherulbahal and Lechuapada under BOCM for 1 year (AP-1)	7.72
67	Supply of health materials for COVID-19	2.31
68	Supply of IR Thermometer for COVID-19	0.14
69	Payment of honorarium to staff Nurse (Contractual) for COVID-19	0.26
70	Payment of hononarium for the period 28.09.20 - 27.10.20 to contractual staff nurse	0.29
71	Payment of honorarium for the period 28.10.2020 - 26.11.2020	0.30
72 73	Supply of Refrigator for COVID-19 Supply of health materials for COVID-19	0.21 0.11
74		0.11
75	Supply of health materials for COVID-19 Supply of Mask during COVID-19	0.11
76	Payment of honorarium to staff Nurse (Contractual) for COVID-19	0.12
77	Payment Honorarium to Staff Nurse (Contractual) for COVID-19	0.26
78	Payment of hononarium for the period 28.09.20 - 27.10.20 to contractual staff nurse	0.30
79	Payment of honorarium for the period 28.10.2020 - 26.11.2020	0.28
80	Supply of Dade body bag for COVID-19	0.15
81	Supply of material for covid care centre	0.23
82	Procuremnt of cleaning material for COVID-19 at Hospital	2.33
83	Supply of health materials for COVID-19	1.13
84	Supply of health materials for CIVID-19	3.67
85	Supply of water cooler cum purifier for Lakhanpur Area under CSR	1.73
86	Payment of honorarium to Staff Nurse(Contractual) for COVID-19	0.13
87	Payment of honorarium for the period 28.09.20 - 27.10.20	0.30
88	Payment of honorarium for the period 28.10.2020 - 26.11.2020	0.30
89	Purchase of health material for COVID-19	0.17
90	Procurement of health materials for COVID-19 under CSR	4.07
91	Procurement of health materials for COVD-19 under CSR	18.31
92	Procurement of health materials for CIVID-19 under CSR	0.74
93	Procurement of health materials for CIOVID-19 under CSR	2.25
94	Supply of cotton mask during COVID-19 at LKPA under CSR	2.52
95	Supply of furniture fo COVID-19	1.08
96	Payment of Honorarium to Staff Nurse engaged in Covid care Centre	0.26
97	Procuremen opf N-95 Mask	0.89
98	Supply of health materials for COVID-19	4.16
99	Supply of health material FOR covid-19	3.82
100 101	Supply of health materials for COVID-19 Diverses of health material for COVID-10	2.47
101	Purchase of health material for COVID-19 Develop to towards a of line of a vivien or line for COVID Health Core Control	0.05
	Payment towards refiling of oxygen cylinder for COVID Health Care Centre	1.20
103	Supply of heleath material for distribution to senior citzen under CSR	
104	Purchase of health material for CIVID-19	0.07
104	Supply of IV stand SS for COVID 10 Health Centre	0.54
105	Supply of IV stand SS for COVID-19 Health Centre	0.54
	Supply of IV stand SS for COVID-19 Health Centre Purchase of health materials for COVID-19 Suply of Face shield for COVID-19	0.54 2.09 0.11

PROJECT: BELPAHAR OCM, LAKHANPUR AREA, MCL.

(Concentration in µg/cu.m.)

Station	Near n	nagazin	e house		East of mine						of mine	ļ			Near central workshop					
Date of Sampling	PM _{2.5}	PM ₁₀	SO ₂	Nox	SPM	PM _{2.5}	PM ₁₀	SO ₂	Nox	SPM	PM _{2.5}	PM ₁₀	SO ₂	Nox	SPM	PM _{2.5}	PM ₁₀	SO ₂	Nox	SPM
02.06.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	85	11.56	12.68	143
03.06.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	94	12.42	12.88	170
09.06.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	91	14.89	13.82	164
10.06.20	18	57	12.11	11.10	80	-	-	-	-	-	-	-	-	-	-	21	89	13.89	13.56	171
15.06.20	-	-	-	-	-	48	64	10.08	13.18	78	26	70	14.81	11.21	104	-	-	-		-
17.06.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	82	9.86	15.07	110
18.06.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	42	15.59	20.43	76
23.06.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	44	14.85	18.78	61
24.06.20	21	81	13.46	19.11	112	-	-	-	-	-	-	-	-	-	-	24	63	8.64	11.74	85
29.06.20	-	-	-	-	-	37	83	9.60	11.74	102	29	52	11.39	13.24	68	-	-	-	1	-
30.06.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	67	6	7.45	109
09.07.20	13	54	7.03	15.16	79	-	-	-	-	-	-	-	-	-	-		-	-	-	-
13.07.20	-	-	-	-	-	22	69	13.31	17.01	102	18	75	12.12	18.7	153	-	-	-	-	-
23.07.20	21	52	8.16	14.12	75	-	-	-		-	-	-	-	-	-	-	-	-	-	-
29.07.20	-	-	-	-	-	44	192	12.17	18.32	265	22	69	8.75	20.13	98	-	-	-	-	-
01.07.20	-	-	-		-	-	-	-	-	-	-	-	-	-	-	32	73	6.63	13.46	115
08.07.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	58	8.80	14.46	85
09.07.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	49	9.45	16.31	89
14.07.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	54	8.45	13.25	88
15.07.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	79	10.57	14.59	120
22.07.20	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	26	48	15.31	26.13	62
23.07.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	62	9.15	16.40	96
29.07.20	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	23	88	10.66	14.82	135
30.07.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	70	8.06	16.92	121
02.08.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	64	8.34	19.80	110
03.08.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	61	8.10	21.09	89
11.08.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	78	8.57	13.36	138
12.08.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	85	9.33	12.29	134
18.08.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	89	11.70	12.60	128
19.08.20	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	27	83	8.37	13.79	121
25.08.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	62	8.06	13.98	99
26.08.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	52	10.04	15.49	86
31.08.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	57	9.17	20.67	96
08.08.20	19	80	11.17	24.67	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14.08.20	-	-	-	-	-	24	63	11.77	18.57	142	18	61	13.48	25.34	109	-	-	-	-	-

21.08.20	33	89	8.53	17.58	120	Ι_	l <u>-</u>	Ι_	I _		<u>-</u>	l _	Τ_	_	_	_	_	_	_	
31.08.20	-	-	-	-	-	20	58	13.69	16.39	92	30	71	11.46	15.15	141	_		_	_	_
01.09.20	+ -	_	_	_	_	_	-	-	-	-	-	-	-	-	-	27	86	7.99	16.85	132
07.09.20	<u> </u>	_	_	_	_		_	_	_		_	_	_	_	_	23	73	9.27	15.50	117
08.09.20	<u> </u>	_	_	_	_		_		_		_	_	_	_	_	32	95	8.45	16.19	138
10.09.20	28	73	10.70	18.63	100		_		_	_	_	_	_	_	_	-	-	-	-	-
14.09.20	-		-	-	-	39	129	10.86	22.35	204	31	79	13.12	20.00	111	_	_	_	_	_
15.09.20	_	_	_	_	_	-	-	-	-	-	-	-	-	-	-	32	88	8.39	17.54	133
16.09.20	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	29	84	11.35	17.39	120
21.09.20	-	-	-	-	-	_	-	-	-	_	-	-	-	-	-	34	91	9.23	22.19	135
22.09.20	_	_	-	_	-	_	-	_	-	_	_	-	-	-	-	29	78	10.71	18.66	114
23.09.20	31	218	9.49	16.52	328	-	-	-	-	_	_	-	-	-	-	-	-	-	-	-
28.09.20	-	-	-	-	-	20	57	10.54	23.60	88	25	90	12.11	17.84	126	-	-	-	-	-
29.09.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	60	6.04	17.09	98
30.09.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	76	11.63	14.85	116
06.10.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	73	9.08	12.92	102
07.10.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	58	8.88	17.92	92
08.10.2020	19	54	12.08	19.04	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.10.2020	-	-	-	-	-	20	64	13.20	18.03	106	26	115	11.35	23.60	170	-	-	-	-	-
13.10.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	68	8.17	12.69	102
18.10.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	77	10.21	18.73	110
20.10.2020	-	-	-	-	-	-	-	-	-	ı	-	-	-	-	1	22	74	10.89	17.94	108
21.10.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ı	19	61	9.87	17.52	94
22.10.2020	24	83	8.17	16.04	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27.10.2020	-	-	-	-	-	23	72	9.38	18.42	106	20	61	11.55	25.02	93	-	-	-	-	-
28.10.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	54	9.03	20.56	86
29.10.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	71	10.80	16.4	112
04.11.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	81	10.11	22.64	147
05.11.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	86	9.39	22.71	163
06.11.2020	38	120	10.64	18.97	195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09.11.2020	-	-	-	-	-	48	110	11.39	18.94	198	56	142	13.94	22.32	253	-	-	-	-	-
10.11.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	92	10.79	20.71	157
11.11.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	79	10.38	21.41	154
18.11.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	70	11.94	19.06	114
19.11.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	74	9.50	19.92	128
20.11.2020	67	194	9.03	21.03	274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23.11.2020	-	-	-	-	-	58	194	11.91	27.43	284	48	99	9.81	19.28	208	-	-	-	-	-
24.11.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	84	12.39	21.98	144
25.11.2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	92	15.19	21.79	151
04.12.2020	57	171	11.74	25.57	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17.12.2020	62	219	15.28	31.37	333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

07.12.20	-	_	-	-	-	53	145	13.91	30.24	262	66	168	9.38	24.17	265	-	-	-	_	-
19.12.20	-	-	-	-	-	62	171	14.98	34.69	249	69	184	12.60	24.82	297	-	-	-	-	-
02.12.20	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	56	93	11.19	26.05	182
0312.20	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	51	86	12.96	23.49	165
08.12.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	94	10.99	21.93	176
09.12.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	87	14.60	20.44	189
15.12.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	87	16.32	22.61	157
16.12.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	92	14.23	25.23	169
21.12.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	94	18.80	27.53	180
22.12.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	84	11.91	25.94	153
30.12.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	87	20.10	27.78	141
01.1.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	81	16.54	32.09	149
06.1.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	84	16.09	35.48	154
13.1.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	88	17.13	28.44	225
14.1.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	80	15.41	20.75	189
19.1.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	82	15.20	27.93	179
20.1.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	93	18.02	24.10	217
28.1.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	86	11.48	17.20	196
29.1.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	93	14.78	24.79	217
30.1.21	57	175	18.46	36.25	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02.2.21	-	-	-	-	-	55	158	16.21	26.43	276	61	169	13.23	30.12	321	-	-	-	-	-
08.2.21	-	-	-	-	-	-	-	-	-	-	58	141	21.50	34.39	264	-	-	-	-	-
12.2.21	63	227	17.14	29.51	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15.2.21	-	-	-	-	-	63	182	16.35	31.12	296	-	-	-	-	-	-	-	-	-	-
03.2.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	78	11.27	33.62	130
04.2.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	83	16.94	25.83	148
10.2.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	92	18.02	36.15	162
11.2.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	90	17.65	30.34	197
16.2.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	87	18.71	19.61	146
17.2.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	84	12.77	26.42	181
02.3.21	-	-	-	-	-	55	248	17.37	40.42	368	-	-	_	-	-	-	-	-	_	-
12.3.21	_	-	_	-	-	54	193	22.09	26.16	318	60	158	21.14	23.97	276	-	-	-	_	-
16.3.21	46	132	18.97	38.68	263	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-
03.3.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	77	13.58	31.00	166
04.3.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	83	18.91	29.49	182
09.3.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	86	26.48	34.53	197
10.3.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	91	18.75	23.92	187
17.3.21	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	49	88	10.77	16.48	212
18.3.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	84	18.58	21.49	179
MoEF Standard	60	300	120	120	600	60	300	120	120	600	60	300	120	120	600	60	300	120	120	600

ମହାନଦୀ କୋଲ୍ଫିଲ୍ସୁସ ଲିମିଟେଡ महानदी कोलफील्ड्स लिमिटेड Mahanadi Coalfields Limited

(A subsidiary of coal India Limited)

OFFICE OF THE GENERAL MANAGER, LAKHANPUR AREA. P.O. - Bandhabahal.

Dist: Jharsuguda (ORISSA) PIN: 768211

Phone: 06645-233528, FAX-: 06645-233353

Email: lkparea_mcl@rediffmail.com



Ref: MCL/GM/LKPA/Envt/2019-20/

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Date: 31.01.2020

To

The Regional Officer, State Pollution Control Board Odisha, COX Colony, Jharsuguda

Sub: Requesting for approval for Routine Environmental Monitoring Stations for Lakhanpur Area for the year 2020-21.

Dear Sir,

As per the stipulated conditions of Environmental Clearance, Consent to Establish and Consent to Operate of Mines of Lakhanpur Area (Lakhanpur OCP, Belpahar OCM and Lilari OCP) the locations of Routine Environmental Monitoring Stations must be consulted with State Pollution Control Board. In this regard the location and coordinates for Routine Environmental Monitoring Stations for the year 2020-21 of Lakhanpur Area mines are mentioned below:

c c	Air and Noise Monitoring stations				
Sl.No.	Project	Name of Station	Co-ordinates		
1	Lakhanpur Opencast Project	Near Lilari Nallah Pump house	21°46'37.73"N 83°51'01.48"E		
2	Lakhanpur Opencast Project	South west of Quarry 6	21°43'57.87"N 83°47'27.64"E		
3	Lakhanpur Opencast Project	West of Quarry 3	21°46'27.25"N 83°47'14.86"E		
4	Lakhanpur Opencast Project	Near Quarry 3.	21°45'56.50"N 83°48'46.90"E		
5	Belpahar Opencast Mine	Near Magazine House	21°44'48.01"N 83°51'31.47"E		
6	Belpahar Opencast Mine	Near Central Workshop	21°46'17.45"N 83°52'21.90"E		
7	Belpahar Opencast Mine	South of the Mine	21°43'12.08"N 83°48'53.02"E		
8	Belpahar Opencast Mine	East of the Mine	21°43'28.22"N 83°52'2.01"E		
9	Lilari Opencast Project	Near Lilari Magazine House	21°47'09.56"N 83°51'14.57"E		

Heavy Metal Monitoring stations				
Sl.No.	Project	Name of Station	Co-ordinates	
1	Lakhanpur Opencast Project	Near Lilari Nallah Pump house	21°46'37.73"N 83°51'1.48"E	
2	Lakhanpur Opencast Project	South west of Quarry 6	21°43'57.87"N 83°47'27.64"E	
3	Belpahar Opencast Mine	Near Magazine House	21°44'48.01"N 83°51'31.47"E	
4	Belpahar Opencast Mine	East of the Mine	21°43'28.22"N 83°52'2.01"E	
5	Lilari Opencast Project	Near Lilari Magazine House	21°47'09.56"N 83°51'14.57"E	

	Effluent quality Monitoring station				
S.No	Project	Name of Station			
		Effluent Treatment Plant			
1.	Lakhanpur Opencast Project	Mine sump water			
		Clear water tank of Secondary Sedimentation Tank			
	*	Effluent Treatment Plant			
2.	Belpahar Opencast Mine	Mine sump water			
		ECO Tank			
		Clear water tank of Sewage Treatment Plant			
3.	Lilari Opencast Project	Mine sump water			

Drinking Water Monitoring locations				
S.No	Project	Location		
1.	Lakhanpur Opencast Project	Lakhanpur OCP Canteen Tap water		
2.	Belpahar Opencast Mine	IWSS outlet		
3	Lilari Opencast Project	Jurabaga Village well water		

	Piezometer lo	ocations	
S.No	Project	Location	
1.	Lakhanpur Opencast Project	MIP 07 – DAV School, Bandhbahal MIP 08 – Kusaraloi School	
2.	Belpahar Opencast Mine	MIP 09- State Horticulture office	
3	Lilari Opencast Project	MIP 10- Daheldera school MIP 06- Lilari PO Office	

Surface Water Monitoring locations				
x 2	Pulijhor stream near Tingismal Village as u/s of Lakhanpur OCP			
	Pulijhor stream near Darlipalil Village before confluence to Lilari			
Talle O D	nallah as d/s of Lakhanpur OCP			
Lakhanpur Opencast Project	Lilari nallah near kudaloi village as u/s of Lakhanpur OCP			
	Lilari nallah near project office lilari bridge village as d/s of			
	Lakhanpur OCP			

Well level monitoring locations			
S.No	Project	Location	
1.		Darlipali village well	
	Lakhanpur Opencast Project	Ubuda village well	
		Khairkuni village well	
2.	Belpahar Opencast Mine	Chharla village well	

Submitted for your kind consideration and approval

Yours Faithfully

Project Officer 2 202 Lakhanpur OCP

Project Officer
Belpahar OCM

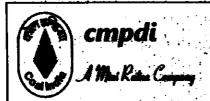
Manager Lilari OCP

Copy to:

- 1. General Manager, Lakhanpur Area.
- 2. General Manager (Envt. & Forest), MCL HQ.
- 3. Area Environment Officer, LKPA.
- 4. Nodal Officer (Envt), LKPOCP/BOCM/Lilari OCP.
- 5. Office copy.

Regional Officer
State Pollution Control Board
JHARSUGUDA

Annexure -3

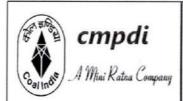


AMBIENT AIR QUALITY DATA (HEAVY METALS) Area: Lakhanpur

Project	B	lpahar OCP		
Monitoring Station	Near Central Workshop			
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	
	(μg/m3)	(ng/m3)	(ng/m3)	
02-Jun-20	<0.1	<1.0	<1.0	
03-Jun-20	<0,1	<1.0	<1.0	
09-Jun-20	<0.1	<1.0	<1.0	
10-Jun-20	<0.1	<1.0	<1.0	
17-Jun-20	<0.1	<1.0	<1.0	
18-Jun-20	<0.1	<1.0	<1.0	
23-Jun-20	<0.1	≤1.0	<1.0	
24-Jun-20	<0.1 1	0.1≶	<1.0	
30-Jun-20	⊲0.1	<1.0	<1.0	
Standard	1.0(24hours).	6.0(Annual)	20(Annual)	

Zattanoix

O.I.C. Env. Lab CMFDI, RI-VII Bhutanasan



AMBIENT AIR QUALITY DATA (HEAVY METALS) Area:Lakhanpur

Project	Belpahar OCP			
Monitoring Station	Near Central Workshop			
Data of a sure live	Lead (Pb)	Arsenic (As)	Nickel (Ni)	
Date of sampling	$(\mu g/m3)$	(ng/m3)	(ng/m3)	
01-Jul-20	<0.1	<1.0	<1.0	
02-Jul-20	Strike			
08-Jul-20	<0.1	<1.0	<1.0	
09-Jul-20	< 0.1	<1.0	<1.0	
14-Jul-20	< 0.1	<1.0	<1.0	
15-Jul-20	< 0.1	<1.0	<1.0	
22-Jul-20	< 0.1	<1.0	<1.0	
23-Jul-20	<0.1	<1.0	<1.0	
29-Jul-20	< 0.1	<1.0	<1.0	
30-Jul-20	< 0.1	<1.0	<1.0	
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	







AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area: Lakhanpur

Project	Belpahar OCP			
Monitoring Station	Near Central Workshop			
D	Ozone (O ₃)	Lead (Pb) (µg/m3)	Arsenic (As) (ng/m3)	Nickel (Ni)
Date of sampling	(µg/m3)			
02-Aug-20	3.71	< 0.1	<1.0	<1.0
03-Aug-20	3.14	< 0.1	<1.0	<1.0
11-Aug-20	3.86	< 0.1	<1.0	<1.0
12-Aug-20	3.43	< 0.1	<1.0	<1.0
18-Aug-20	< 0.1	< 0.1	<1.0	<1.0
19-Aug-20	< 0.1	< 0.1	<1.0	<1.0
25-Aug-20	0.53	< 0.1	<1.0	<1.0
26-Aug-20	< 0.1	< 0.1	<1.0	<1.0
31-Aug-20	0.48	< 0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Haraik

Authorised Signatory CMPDI, RI-VII, LAS BHUBANESWAS O.L.C.

Env. Lab CMPDI, RI-VII Bhubaneswar



AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area:Lakhanpur

Project		Belpa	har OCP	
Monitoring Station	Near Central Workshop			
	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
Date of sampling	(μg/m3)	$(\mu g/m3)$	(ng/m3)	(ng/m3)
01-Sep-20	3.12	<0.1	<1.0	<1.0
07-Sep-20	3.42	<0.1	<1.0	<1.0
08-Sep-20	3.86	< 0.1	<1.0	<1.0
15-Sep-20	6.12	<0.1	<1.0	<1.0
16-Sep-20	5.96	<0.1	<1.0	<1.0
21-Sep-20	5.84	<0.1	<1.0	<1.0
22-Sep-20	6.01	< 0.1	<1.0	<1.0
29-Sep-20	6.42	<0.1	<1.0	<1.0
30-Sep-20	5.32	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Authorised Signatory CMPDI, RI-VII, LAB BHUBANESWAR SALAM

O. I. C. Env. Lab CMPDI, RI-VII Bhubaneswar



AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area:Lakhanpur

Project	Belpahar OCP Near Central Workshop			
Monitoring Station				
	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
Date of sampling	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)
04-Nov-2020	2.52	<0.1	<1.0	<1.0
05-Nov-2020	2.48	<0.1	<1.0	<1.0
10-Nov-2020	2.68	<0.1	<1.0	<1.0
11-Nov-2020	2.54	<0.1	<1.0	<1.0
18-Nov-2020	4.82	<0.1	<1.0	<1.0
19-Nov-2020	4.96	<0.1	<1.0	<1.0
24-Nov-2020	4.88	<0.1	<1.0	<1.0
25-Nov-2020	5.01	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Authorised Signatory CMPDI, RI-VII, LAB BHUBANESWAR

0. I. C. Env. Lab CMPDI, NI-VII Bimbatteswar



AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area: Lakhanpur

Project		Belpa	har OCP		
Monitoring Station	Near Central Workshop				
D . C . !!	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	
Date of sampling	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)	
02-Dec-2020	2.88	•••	<1.0	<1.0	
03-Dec-2020	2.89	(MEMP)	<1.0	<1.0	
08-Dec-2020	2.72		<1.0	<1.0	
09-Dec-2020	2.94	×27	<1.0	<1.0	
15-Dec-2020	2.54		<1.0	<1.0	
16-Dec-2020	2.59	_,	<1.0	<1.0	
21-Dec-2020	2.60		<1.0	<1.0	
22-Dec-2020	2.55	- W	<1.0	<1.0	
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	

Authorised Signatory CMPDI, RI-VII, LAB BHUBANESWAR C " and

O. I. C. Env. Lab CMPDI, RI-VII Baubareswar



AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area:Lakhanpur

Project	MI Atlanta	Belpa	har OCP	V
Monitoring Station	the weath, the	Near Cent	tral Workshop)
D	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
Date of sampling	$(\mu g/m3)$	(µg/m3)	(ng/m3)	(ng/m3)
28-Jan-2021	3.78	<0.1	<1.0	<1.0
29-Jan-2021	3.69	<0.1	<1.0	<1.0
03-Feb-2021	3.70	<0.1	<1.0	<1.0
04-Feb-2021	3.66	<0.1	<1.0	<1.0
10-Feb-2021	2.89	<0.1	<1.0	<1.0
11-Feb-2021	2.87	<0.1	<1.0	<1.0
16-Feb-2021	2.76	<0.1	<1.0	<1.0
17-Feb-2021	2.80	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Authorised Signatory CMPDI, RI-VII, LAB BHUBANESWAR

O. I. C.

Env. Lab

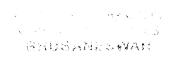
CMPDI, RI-VII

Blubaneswar



AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area:Lakhanpur

Project		Belpa	har OCP		
Monitoring Station	Near Central Workshop				
D =4 = -6 = ====!:==	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	
Date of sampling	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)	
24-Feb-2021	4.18	<0.1	<1.0	<1.0	
25-Feb-2021	4.10	<0.1	<1.0	<1.0	
03-Mar-2021	4.05	<0.1	<1.0	<1.0	
04-Mar-2021	4.20	<0.1	<1.0	<1.0	
09-Mar-2021	2.87	<0.1	<1.0	<1.0	
10-Mar-2021	2.80	<0.1	<1.0	<1.0	
17-Mar-2021	2.78	<0.1	<1.0	<1.0	
18-Mar-2021	2.68	< 0.1	<1.0	<1.0	
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	





NOISE LEVEL MONITORING DATA

PROJECT: BELPAHAR OCM, LAKHANPUR AREA.

DATE OF	STATION	Noise Level Measurement in dB(A)		
SAMPLING		DAY	NIGHT	
	Near central workshop	68.7	65.8	
25.04.2020	East of the mine	66.8	61.5	
25.04.2020	South of the mine	65.7	63.4	
	Near magazine house	67.4	64.9	
	Near central workshop	68.9	66.7	
13.052020	East of the mine	64.8	61.4	
	South of the mine	66.2	64.5	
	Near magazine house	-		
	Near central workshop	70.8	65.4	
27.05.2020	East of the mine	62.5	60.7	
	South of the mine	66.7 64.4	59.3 60.1	
	Near magazine house Near central workshop	70.2	68.4	
	East of the mine	64.9	58.7	
10.06.2020	South of the mine	62.5	58.1	
	Near magazine house	65.7	60.4	
	Near central workshop	68.7	63.4	
	East of the mine	65.9	60.2	
24.06.2020	South of the mine	61.8	58.6	
	Near magazine house	65.3	61.9	
	East of the mine	67.5	64.3	
	South of the mine	63.2	60.7	
11.07.2020	Near magazine house	66.8	64.5	
	Near central workshop	66.2	61.7	
	East of the mine	64.8	62.5	
20.07.2020	South of the mine	65.5	63.2	
29.07.2020	Near magazine house	64.2	64.2	
	Near central workshop	66.6	62.4	
	East of the mine	63.9	57.4	
	South of the mine	62.7	60.3	
11.08.2020	Near magazine house	60.4	57.1	
	Near central workshop	65.3	62.7	
	East of the mine	62.2	58.4	
	South of the mine	64.9	62.5	
26.08.2020	Near magazine house	62.1	59.1	
	Near central workshop	64.9	61.7	
	East of the mine	63.9	60.4	
12.09.2020	South of the mine	66.7	64.5	
	Near magazine house	63.8	58.3	
	Near central workshop	66.8	63.2	
	East of the mine	65.8	62.1 58.3	
26.09.2020	South of the mine	62.9 64.6	58.3 60.1	
	Near magazine house Near central workshop	66.9	63.2	
	East of the mine	66.7	63.9	
	South of the mine	64.6	62.3	
10.10.2020	Near magazine house	62.5	60.2	
	Near central workshop	68.3	63.4	
	East of the mine	66.5	63.9	
20.40.2000	South of the mine	64.9	61.4	
29.10.2020	Near magazine house	65.7	62.1	
	Near central workshop	67.8	63.4	
	East of the mine	64.6	63.9	
12 11 2020	South of the mine	68.6	62.2	
13.11.2020	Near magazine house	66.7	63.9	
	Near central workshop	67.4	62.8	
	East of the mine	63.5	59.4	
27.11.2020	South of the mine	65.8	63.2	
	Near magazine house	64.2	61.5	

	Near central workshop	66.7	63.9
	East of the mine	64.7	62.1
10 12 20	South of the mine	66.6	64.9
10.12.20	Near magazine house	63.6	59.4
East of the mi South of the m Near magazine h Near central wor Near central wor South of the m South of the m Near magazine h Near central wor Near central wor South of the m Near magazine h Near magazine h Near central wor South of the m Near magazine h Near central wor Near magazine h Near central wor South of the m Near magazine h Near Central Wor East of the Mi Near Magazine h Near Central Wor South of the M Near Magazine h Near Magazine h South of the M Near Magazine h	Near central workshop	65.3	63.2
22.42.20	Near central workshop	67.8	64.2
23.12.20	East of the mine	65.9	63.9
	South of the mine	63.8	62.1
	Near magazine house	64.9	62.7
0-101	Near central workshop	64.6	62.1
05.1.21	East of the mine	63.2	60.5
	South of the mine	64.9	63.2
	Near magazine house	66.9	63.2
10.1.21	Near central workshop	67.6	63.6
19.1.21	East of the mine	65.7	62.3
	South of the mine	63.2	61.2
	Near magazine house	66.9	62.3
	Near Central Workshop	64.6	63.9
	East of the Mine	65.7	62.3
05.2.21	South of the Mine	63.2	60.5
	Near Magazine House	66.6	64.7
	Near Central Workshop	66.8	63.5
18.2.21	East of the mine	63.2	58.6
	South of the Mine	66.9	64.7
	Near Magazine House	64.6	62.9
	East of the Mine	65.9	62.7
02.2.21	South of the Mine	67.8	63.2
U3-3-21	Near Magazine House	66.3	64.8
	Near Central Workshop	68.3	65.7
	Near Central Workshop	64.8	61.8
18.3.21	Near Magazine House	68.3	64.6
10.5.21	South of the Mine	64.7	62.1
	East of the Mine	66.5	63.2

EFFLUENT QUALITY DATA

PROJECT: BELPAHAR OCM, LAKHANPUR AREA. (All dimensions are in mg/l unless otherwise stated except pH)

Date of Sampling	Sampling Station	рН	OG	TSS	COD	BOD
	Clear water Tank of Sewage treatment plant	-	-	-	-	-
13.07.2020	Outlet ETP	-	-	-	-	-
	ECO tank	7.28	<4.0	28	20	-
	Mine Sump Water	6.92	<4.0	24	16	-
	Inlet of ETP	-	-	-	-	-
	Clear water Tank of Sewage treatment plant	7.26	-	28	-	<2.0
	Outlet ETP	-	-	-	-	-
29.07.2020	ECO tank	7.42	<4.0	36	28	-
	Mine Sump Water	7.01	<4.0	32	24	-
	Inlet of ETP	-	-	-	-	-
	Clear water Tank of Sewage treatment plant	-	-	-	-	-
	Outlet ETP	-	-	-	-	-
14.08.2020	ECO tank	6.70	<4.0	48	36	-
	Mine Sump Water	6.05	<4.0	28	24	-
	Inlet of ETP	-	_	-	-	-
	Clear water Tank of Sewage treatment plant	6.93	_	44	_	<2.0
12.09.2020	Outlet ETP	-	_	-	_	-
	ECO tank	6.68	<4.0	40	28	_
	Mine Sump Water				12	
	Inlet of ETP	-	-		-	_
	Clear water Tank of Sewage treatment plant	4.99	_	28	_	<2.0
	Outlet ETP		<4.0		32	-
13.10.2020	ECO tank				40	_
13.10.2020	Mine Sump Water				28	
	Inlet of ETP		1		40	_
	Clear water Tank of Sewage treatment plant		1	-	-	_
	Outlet ETP	_	_	_	_	_
30.10.2020	ECO tank	6.03	<4.0	3/1	16	_
30.10.2020	Mine Sump Water				16	
	Inlet of ETP	5.50			-	_
	Clear water Tank of Sewage treatment plant	7 10				<2.0
	Outlet ETP	7.18	+	40		\2.0
13.11.2020	ECO tank	6.47		20	16	_
15.11.2020					12	-
	Mine Sump Water		+		+	
	Inlet of ETP		<4.0		68	
	Clear water Tank of Sewage treatment plant	7.71	-	50	-	<2.0
20 11 2020	Outlet ETP	7.53		24	- 24	-
28.11.2020	ECO tank		+		24	-
	Mine Sump Water	nt plant	20			
	Inlet of ETP	7.50	+	-	-	
10 12 2022	Clear water Tank of Sewage treatment plant				-	<2.0
10.12.2020	ECO tank	_		1	20	-
	Mine Sump water	8.14	<4.0	22	12	-

	Clear water Tank of Sewage treatment plant	7.26	-	30	-	<2.0
25.12.2020	ECO tank	7.39	<4.0	20	12	-
	Mine Sump water	7.87	<4.0	72	80	-
	Clear water Tank of Sewage treatment plant	7.24	-	22	-	<2.0
	ECO tank	6.53	<4.0	20	52	-
13.1.2021	Mine Sump Water	6.85	<4.0	24	64	-
	Outlet of ETP	6.86	<4.0	18	32	-
	Inlet of ETP	6.82	<4.0	22	36	-
	Clear water Tank of Sewage treatment plant	7.01	-	26	-	<2.0
28.1.2021	ECO tank	6.42	<4.0	22	48	-
28.1.2021	Mine Sump Water	7.25	<4.0	24	36	-
	Clear water Tank of Sewage treatment plant	5.74	-	26	-	<2.0
13.2.2021	ECO tank	5.50	<4.0	28	44	-
13.2.2021	Mine Sump Water	7.51	<4.0	34	60	-
	Inlet ETP	7.43	<4.0	20	36	-
	Clear water Tank of Sewage treatment plant	5.89	-	26	-	<2.0
20.02.2021	ECO tank	6.69	<4.0	26	44	-
	Mine Sump Water	6.56	<4.0	48	104	

ertiliser Black Market

der, 1985 for preventing hoarding, black marketing and diversion of subsidised area for industrial and nonigricultural purpose

In a recent communicaion, Union Chemical and Fertiliser Secretary JK Mohapatra requested Chief Secreary GC Pati to curb the diversion of fertilisers such as urea or industrial use and prevent heir black marketing and muggling.

"Often there are complaints of diversion of subsidised ferilisers for industrial and nonagricultural uses. Diversion of subsidised fertilisers may curail supplies for bonafide agicultural uses thereby adrersely affecting our agriculural productivity," Mohapara stated in the letter.

Since the demand for fertiliser is steadily increasing, it is the responsibility of the State Government to ensure that the subsidised urea reaches the farmers for augmenting agriculture production, he said.



7 AM - 4 PM MONDAY TO SATURDAY

HERN RAILWAY AY RECRUITMENT CELL

Cherian Crescent Road, Egmore, Chennai - 8

ttention: Applicants

Employment Notice No.RRC 01/2014 Recruitment against Cultural Quota -

e No. RRC 01/2014 was published in the lition dated 27.12.2014 - 02.01.2015 to fill ancies in Pay Band - 1 of 5,200 - 20,200 00/- in Southern Railway.

ange in Minimum Educational Qualification pular Categories (Posts with Grade Pay way Board's letter No.E(NG)II/2012/RR-4, Para 3.2 of the Employment Notice may

age) or its equivalent examination with marks in the aggregate. Minimum arks in the aggregate is not applicable in vicemen."

love, the closing date (for all parts of the it of applications is further extended upto

of the Employment Notification remain

receipt of Applications: 19.02.2015 airman, Railway Recruitment Cell, Chennai

INSTITUTE OF PHYSICS

(An autonomous Research Inetitute of Dept. of Atomic Energy, Goyt. of India) Sachtvalaya Marg, PO-Seinik School, Bhubaneawar-751005

CORRIGENDUM TO

ADVERTISEMENT NO. IOP/Rectt/03.02/2014

No Age relaxation is allowed to SC/ST/OBC Candidates who have applied for the post of DRIVER (Ordinary) under UR category.

The incopvenience caused is regretted.

DIRECTOR



MAHANADI COALFIELDS LIMITED
(A Subaidiary of Coal India Limited)
JAGRUTI VIHAR, BURLA-768020, DIST-SAMBALPUR, ODISHA
Tel. (EPABX):0863-2542461 to 469, Wabaita: http://www.mci.gov.in

This is for the kind notice of all the concerned that Belpahar OC Expansion Project at Lakhanpur Area of Mahanadi Coalfields Limited has been accorded Environment Clearance vide letter no. J-11015/189/2008-IA.II(M); dt: 22/01/2015 of the Ministry of Environment, Forests & Climate Change for Expansion in production capacity to 9.0 Mty. A copy of the clearance letter is available with State Pollution Control Board and may also be seen at the website of the Ministry of Environment, Forests and Climate Change at http://envfor.nic.in.

EAST COAST RAILWAY

PUBLIC NOTICE FOR

CLOSURE OF UNMANNED LEVEL CROSSINGS

THE UNDER MENTIONED UNMANNED LEVEL CROSSINGS OF KHURDA ROAD DIVISION HAVE BEEN PROPOSED FOR CLOSURE DUE TO LESS TRAIN VEHICLES UNITS (TVUS). COLLECTOR & DISTRICT MAGISTRATE, CUTTACK HAS PERMITTED FOR THE CLOSURE OF SAID LEVEL CROSSINGS VIDE LETTER NO. 182/JUDL. DATE 17.01.2015. HENCE, THE USE OF THE INDICATED LEVEL CROSSINGS FOR PUBLIC IS CLOSED WITH IMMEDIATE EFFECT.

81. No.	Route	Between Station	LC No.	Rly. Km.	Class of gate	Consus	TVU
1.	D-Spi	Gurudijhatia - Machapur	CT-23	418/2-4	"C" class (UM)	Doc 12	684
2.	D-Spl	Gurudijhatia - Machapur	CT-24	419/2-4	"C" dass (UM)	Dec-12	1140

This is for the information to all concerned.

Divisional Engineer (Central), Khurda Roa

PR-5945 1945 SERVING CUSTOMERS WITH A SMILE

भारतीय स्टेट वेंक State Bank of India

For Kind Attention of Our Esteemed Customers

Linking of Aadhaar Number to Bank Account through ATM / Online Banking

Our customers are requested to link Aadhaar Number to their Bank Account through ATM / Online Banking.

ATM: Customers may swipe their ATM Card in any SBI ATM, press on the link Registration and make use of the link "Aadhaar Registration" for linking Aadhaar number to their account.

Online Banking: Customers may open their SBI Online Banking Account and make use of the link Link your Aadhaar Number avallable on the left hand side of the landing page of the online banking screen for linking Aadhaar Number to their account.

Customers may also visit any SBI Branch and get the Aadhaar Number linked.

Customers, are also requested to register their current mobile number with their respective Home Branch for contacting them in case of need.

Mumbal

Managing Director & G.E. (NB)

we conding of for - 1810 her- 29.01.15

Dharitri Sambalar 29.1.2015

ରାହ୍ ଉଦ୍ଘାଚିତ

ବ୍ଲକ୍ ଭିନ୍ନଷମ ଅଧିକାର ମଞ୍ଚ ଗଠିତ

ସରକାରୀ ମୋଟର

ିଟିକାପୁର୍ଜି । ୨୮୮୧ (ଜି.ଜୁ.ଜୁ. ପ୍ରଭାପତ ବାଶ ସୂଚନା ଦେଇଛନ୍ତି । । ভিএনে ক্রিনিকা ক্রিন্দান ক্রাঞ্চ, এ, প্রা

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MAHANADI COALFIELDS LIMITED

(A Subsidiary of Coal India Limited)

JAGRUTI VIHAR, BURLA-768020, DIST-SAMBALPUR, ODISHA
Tel (EPABX) 0663-2542461 to 469, Website.http://www.mcl.gov.in

This is for the kind notice of all the concerned that Belpahar OC Expansion Project at Lakhanpur Area of Mahanadi Coalfields Limited has been accorded Environment Clearance vide letter no. J-11015/189/2008-IA.II(M); dt: 22/01/2015 of the Ministry of Environment, Forests & Climate Change for Expansion in production capacity to 9.0 Mty. A copy of the clearance letter is available with State Pollution Control Board and may also be seen at the website of the Ministry of Environment, Forests and Climate Change at http://envfor.nic.in. R-4613



GOVERNMENT OF ODISHA OFFICE OF THE SUPERINTENDING ENGINEER RURAL WORKS CIRCLE, BERHAMPUR

E-Mail - serwbpr2004@yahoo com Tel/FAX - 0680-2404287

AT - Ambabua - Po - Engineering School, Near Income Tax Office, Berhampur, Ganjam, Pin. - 760010

No E-Tender // ________// RWC// BAM // Dated 20 01 2015

Corrig endum to Bid-identification No. Online Tender/25-2014-15/BPR
No 1645-O - Due to unavoidable circumstances, the date & time of last date of availability
of tender, seleking tender clanfication, opening of technical bid and financial bid may be
read as follows in the Bid Identification No. Online Tender/25-2014-15/BPR

ě			COLL TOTAL IX
	Last dute of availability of sendor	::	11.02.2015 at 3.00 P.M. instead of 27.01.2015 at 3.00 P.M.
2	i and Date & Time of seeking tender clarification	::	07.02.2015 at 2.00 P.M. instead of 24.01 2015 at 2.00 P.M.
7	Date & time of opening of Fechalical Bid	::	16.02,2015 at 12.00 Noon instead of 31.01.2015 at 12.00 Noon.
4	Date & time of opening of I manicial field	1 7: "	24.02.2015 at 11.00 A.M. Instead of 07 02.2015 at 11.00 A.M.

All other contents will remain unchanged

25071/11/100224/1415 Sd./- Superintending Engineer, R.W. Circle, Berhampur

No.: 790-A GOVERNMENT OF ODISHA DEPARTMENTOFWATERRESOURCES INVITATION FOR BIDS (IFB)

"e" Procurement Notice-4/2014-2015
BID IDENTIFICATION NO.SAL-BDK-08-P1 OF 2014-15

The Executive Engineer, Salandi Canal Division, Bhadrak (Procurement Officer) on behalf of Governor of Odisha invites percentage rate bid to be received in online mode only for the construction of works from eligible Class of Contractors

SUPERINTENDING ENGIN

No.1648-O:- "e"-Procurement Notice, On

1. Name of the Work :- Construction a 2. Total No. of works : PMGSY (Bala)

PMGSY Missil
3. Estimated cost :- Varies from Rs

4. Class of contractor :- Super Class R & Super Class

Class and Spe

5. Period of completion :- Nine to Fifteen 7. Cost of tender paper :- Rs. 10.500/- (iii

Cost of tender paper :- Rs. 10,500/- (iii Payable at Bhi

b ther details

200	Precurament Officer	Bid Identification No.	Females and comme
i	S.E.Rurul .	2	F
	Circle, Sundargarh	PMGSY/RWSESNG- 03 of 2014-15	

Further details can be seen from the website www. Corrigendum if any, will be seen in this Web-Site 25133/11/0027/1415

Office o Public Health Division-III Phone / FAX :- 0674-2

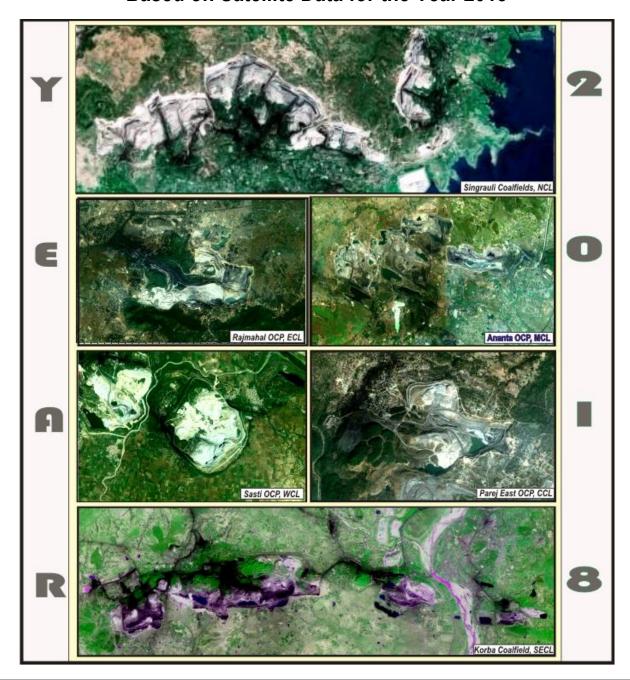
Invitation for Bid No

No 595-C: The Executive Engineer, P.H. Division from the Manufacturer / Authorised Dealers / Su required to produce any document during purchas

SI.		0 ,
No.	Name of the work	Approx
		value of
		Work
1		(in lakh)
1	2	3
1	Procurement of grease, nut & bolts, other spares for day to day maintenance of pumps & motor at water treatment plant, Mundali under Non-Plan.	85.143
2	Supply of W/S & S/I fittings in different lower type Qtrs. (FR) at Sailashreenvihar Bhubaneswar	Rs 245

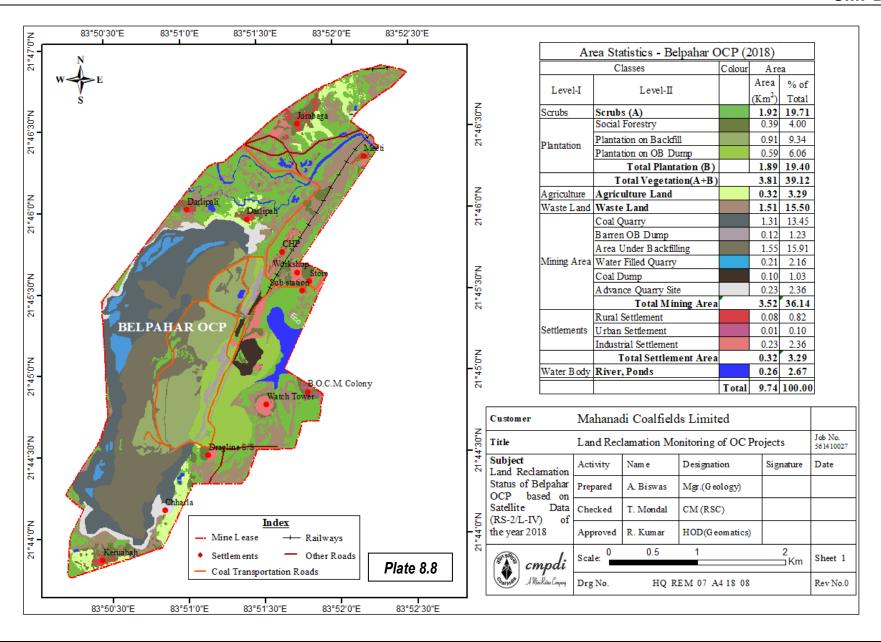
1 Bid documents consisting of plan specification

Land Restoration / Reclamation Monitoring of 52 Opencast Coal Mines Projects of CIL producing more than 5 mcm (Coal+OB) Based on Satellite Data for the Year 2018









Job No 561410027/(MCL) 106

EFFLUENT TREATMENT PLANT



FLOW DIAGRAM





OIL SKIMMER



CONTROL PANEL



MULTIMEDIA FILTER



SLUDGE DRYING BED

Sewage treatment plant at BTI colony







Aeration tank



Clarifier tank



Flow chart



Multimedia filter Aerators Feed tank



TABLE--

GROUND WATER LEVEL MONITORING DATA

Area:

Lakhanpur

Date of Sampling	Project	Name of the Station	Ground Water level (in meter)
5/13/2020	Belpahar OCP	Piezometer No MIP 08; Village Kusraloi, Inside the premises of Prathamik Vidyalaya	6.10
5/19/2020	Belpahar OCP	Piezometer No MIP 07; Infront of DAV school Bandbahal, Inside colony substation.	7.20
5/2/2020	Lakhanpur OCP	Piezometer No MIP 10; Village Dahaldera; Inside the premisses of UP school.	15.00
5/14/2020	Lakhanpur OCP	Piezometer No MIP 09; Village Junion; Inside the premisses of State Govt. Horticulture Institute.	8.00
5/19/2020	Lilari OCP	Piezometer No MIP 06; Infront of Lilari mines Project office.	32.18

Authorised Signatory CMPDI, RI-VII, LAB BHUBANESWAR

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O. I. C. Env. Lab CMPDI, RI-VII



Piezometer Water Quality Data: Lakhanpur Area

Project / OCP	Belpahar OCP			
Monitoring Station	Infront of DAV School Bandhahal, Inside	Village Kussraloi, Inside the Premises of Prathmik Vidyalaya	Indian Drinking Standards (IS-10500):2012	
Date of Sampling	9-Jun-2020	9-Jun-2020	Acceptable	Permissible
Colour(Hazen)	1	4	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	1	1	1	5
pH	6.73	7.31	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	160	36	200	600
Total Hardness (Ca CO3)(mg/L)	164	60	200	600
Iron(mg/L)	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	8	6	250	1000
Total Dissolve Solid(mg/L)	186	110	500	2000
Calcium(mg/L)	41.6	12.8	75	200
Copper(mg/L)	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	2.11	32.50	200	400
Nitrate(mg/L)	<0.5	13.5	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	1	1.5
Arsenic(mg/L)	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	0.003	No relaxation

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Authorised Signatory CMPDI, RI-VII, LAB BHUBANESWAR

O. I. C. Env. Lab Env. Lab Bhubaneswar





GROUND WATER LEVEL MONITORING DATA

Area:

Lakhanpur

Project:

Belpahar OCP

Date of Sampling	Name of the Station	Ground Water level (in meter)
06-Nov-20	Piezometer No MIP 07; Infront of DAV school Bandbahal, Inside colonysubstation.	5.90
06-Nov-20	Piezometer No MIP 08; Village Kusraloi, Inside the premises of PrathamikVidyalaya	4.18

Project:

Lakhanpur OCP

Date of Sampling	Name of the Station	Ground Water level (in meter)
06-Nov-20	Piezometer No MIP 09; Village Junion; Inside the premisses of State GovtHorticulture Institute.	7.27
06-Nov-20	Piezometer No MIP 10; Village Dahaldera; Inside the premisses of UP school.	13.89

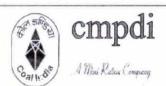
Project:

Lilari OCP

Name of the Station	Ground Water level (in meter)
Piezometer No MIP 06; Infront of Lilari mines Project office.	8.56
F	

Authoxised Signatory CMPDI, RI-VII, LAB BHUBANESWAR O. I. C. Env. Lab CMPDI, RI-VII partaneswar

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Test Report

GROUND WATER LEVEL MONITORING DATA

Area:

Lakhanpur

	Project:	Belpahar OC	'P
Date of Sampling		Name of the Station	Ground Levels (in meter)
13-Jan-21	Piezometer No MIP 08; Village Kusraloi, Inside the premises of PrathamikVidyalaya		5.27
13-Jan-21	Piezometer No MIF	2 07; Infront of DAV school Bandbahal, Inside colonysubstation.	6.52

Project:

Lakhanpur OCP

Date of Sampling	Name of the Station	Ground Levels (in meter)
13-Jan-21	Piezometer No MIP 10; Village Dahaldera; Inside the premisses of UP school.	14.13
13-Jan-21	Piezometer No MIP 09; Village Junion; Inside the premisses of State GovtHorticulture Institute.	3.46

Project:

Lilari OCP

Date of Sampling	Name of the Station	Ground Levels (in meter)
14-Jan-21	Piezometer No MIP 06; Infront of Lilari mines Project office.	18.21

Authorised Signatory CMPDI, RI-VII, LAB BHUBANESWAR asland