



MCL

MAHANADI COALFIELDS LIMITED

ମହାନଦୀ କୋଲଫିଲ୍ଡସ୍ ଲିମିଟେଡ୍

महानदी कोलफील्ड्स लिमिटेड

Office of the Project Officer, Jagannath Colliery

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An ISO 9001:2008 & 14001:2004 Certified Project

Ref.No. PO/JNC/Envt./2021/ 2853

Date: 01-06-2021

To

The Dy. Director General of Forest (Central)
Eastern Regional Office,
MoEF & CC,
A/3, Chandrasekharapur,
Bhubaneswar 751016

Sub: Half yearly EC Compliance report of Jagannath Colliery (7.5 MTY), MCL for the period of October 2020 to March 2021.

Dear Sir,

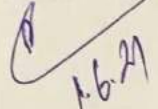
Enclosed please find herewith the half yearly compliance report for Environmental conditions Vide letter no. J-11015/177/2015-IA.II(M) dated 09.09.2020 for expansion of Jagannath OCP from 6MTPA to 7.5 MTPA for the period of October 2020 to March 2021.

Thanking you.

Enclosed:

1. Point wise compliance report of EC conditions.
2. Annexure I to XVI

Yours faithfully,


1.6.21
Project Officer
Jagannath OCP

Copy to:

1. The Additional Director(S), Evt. Monitoring Cell, MoEF, Pariyavaran Bhawan, CGO Complex, New Delhi 110003

Regd post with AD

MAHANADI COAL FIELDS LIMITED



HALF YEARLY COMPLIANCE STATUS FROM THE PERIOD 01/10/2020 TO 31/03/2021 OF THE CONDITIONS IMPOSED BY MOEF(GOI), NEW DELHI IN ENVIRONMENTAL CLEARANCE IN RESPECT OF JAGANNATH COLLIERY OF JAGANNATH AREA, MCL.

1.	Name of the Project	:	Jagannath Colliery, MCL
2.	Period of the report	:	01/10/2020 to 31/03/2021
3.	No. & Date of MOEF clearance letter	:	<u>I-11015/177/2015-IA-II(M), dated 09.09.2020 of Jagannath OCP from 6 to 7.5MTY</u>
4.	Actual date of commencement	:	26.01.1971
5.	Cost of Project	:	Rs.409.08crore

Compliance for Environmental Clearance Conditions of F.No.I-11015/177/2015-IA-II(M) dated 09.09.2020 of Jagannath OCP from 6 to 7.5MTPA with increase in mine lease area from 430.76 ha to 553.946 ha

4(i) An amount of Rs 3987.74 lakhs towards Remediation plan and Natural and Community Resource Augmentation Plan to be spent within a span of three years. The details are given below.

Table 1-Remediation plan with budgetary provision

Sl. No.	Component Remediation	Remediation proposed	Description	Locations	Rate (Rs.)	Total Qty	Total Cost(Rs)	Compliance status
1(a)	Water Environment	Water Treatment Plant for Supply of Portable Water	Installation of 5nos RO plant near Jagannath OCP and Supply of treated portable water to nearby villages	1.Dera 2.Ghantapada 3.Handidua 4.Rhodasar 5.Ekdal 6.Hiloi	8400000	05	4,20,00,000	Proposal to be initiated
1(b)			Installation of Iron removal & Chlorination plant of capacity 10000GPH for supply of Drinking water	Rakash village shifted people at R&R Site, Boulpur	35000000	01	3,50,00,000	Work is completed but the plant is not commissioned yet due to power supply
1(c)		Water Storage & Conveyance system	Installation of Overhead Tank with Pipe line	Narayan Sevashram, Kukudang village (6000 Ltrs)	1000000	LS	10,00,000	Work completed
Sub-Total							7,80,00,000	

Sl. No.	Component Remediation	Remediation proposed	Description	Locations	Rate (Rs.)	Total Qty	Total Cost(Rs)	Compliance Status
2(a)	Air and LULC and Ecology	Plantation / Greenbelt development & Maintenance	Urban Plantation at nearby villages, in vacant/open spaces near R&R site (for prevention of soil erosion) and areas outside Mine boundary with total Nos. of 42,500 local species covering an total area of 17.00 Ha	1.Dera 2.Derjang 3.Telisingha 4.Balanda 5.Balanda 6.Area outside Project boundary of Jagannath OCP	647.059	42500	2,75,00,000	RI of Derjang provided 15Acre land, rest RI (Dera,Kaniha) are also pursued for land.
Total –Remediation Plan Cost (Rs)							10,55,00,000	

Table 2- Natural and Community Resource Augmentation Plan with budgetary provision

Sl. No.	Component Remediation	Remediation proposed	Description	Locations	Rate(Rs.)	Total Qty	Total Cost(Rs)	Compliance Status
1	Natural Resource Augmentation Plan	Conservation of ecology and bio diversity	Development thick green belt with width of 7.5 Mtrs for a total running length of Approx. 30 KM, covering total area of approx. 21.85 Ha land with total of 40000 nos of sapling of local species like sal, gambhari, kurum etc.	1.Along safety zone /around the Mine lease boundary	800	40000	3,20,00,000	Out of 21.85Ha development of green belt ,along safety zone ,plantation work in 19..85Ha will be done in following manner.

Sl. No.	Component Remediation	Remediation proposed	Description	Locations	Rate(Rs)	Total Qty	Total Cost(Rs)	Compliance Status
				2.Downstream direction near Bharatpur Coal Corridor Road 3.Along stream, ponds, etc. of peripheral villages			3,20,00,000	1.Plantation in 4Ha is completed in 2020-21 and 5Ha land will be planted in 2021-22 for which proposal sent to MCL HQrs and 9Ha land will be planted in 2022-23 with local species like sal,gambhari,kurum etc. and rest plantation on 1.8Ha land will be done after completionof Tech. Reclamation work on or before F.Y.2022-23 2.Plantation on 2Ha land along stream, ponds etc. is under process.
Total-Natural Resource Augmentation plan							3,20,00,000	
2	Community Resource Augmentation Plan		Construction/ Renovation of following infrastructures • RCC Drains	Construction of RCC Drains in 1.Majhidian Pond to Chechari pond at Ghantapada -195 mtrs	LS	LS	11,12,74,000	1.Work is awarded, due to land dispute it is not taken up.

Sl. No.	Component Remediation	Remediation proposed	Description	Locations	Rate(Rs.)	Total Qty	Total Costs(Rs.)	Compliance Status
			<ul style="list-style-type: none"> RCC Roads 	2.R&R Sites,Boulapur-5650 Mtrs				2.The work completed
				3.Gurudwar to FCI gate chhak-3000Mtrs				3.The work completed
				Construction of roads in (a)R&R site, Boulapur-3890 Mtrs				(a)Estimated approved, tender floated, It is now at TCR stage
				Renovation of roads in (i)Road from Regional Hospital, Dera to hanuman Mandir, Dera-519.5Mtrs				(i)Work completed
				(ii)Gurudwar to FCI gate Chhak-1351mtrs				(ii)Work completed

Sl. No.	Component Remediation	Remediation proposed	Description	Locations	Rate(Rs)	Total Qty	Total Cost(Rs)	Compliance Status
			<ul style="list-style-type: none"> Community Toilets Library-Cum Meeting Hall 	Construction of community Toilets and Library cum Meeting Hall in respective locations. 1.Handidhua and Dera-3nos in each village 2.Sevashram, kukudang village				1.Proposal to be initiated for village Handidhua and Dera. 2.The work completed at Sevashram, kukudang village
Sub-Total							11,12,74,000	
3	Community Resource Augmentation Plan		Constructions of a High school at Dera(New) with all facilities including , smart display board, separate library 10000 books etc and having 26 Class Rooms,06 Nos. Hall and 13 Toilets Nos. of rooms to provide education to local villager's kids	Dera	LS	LS	10,00,00,000	Work order issued. Agreement Executed, work will be started shortly

Sl. No.	Component Remediation	Remediation proposed	Description	Locations	Rate(Rs)	Total Qty(Rs)	Total Cost(Rs)	Compliance Status
3(a)	Community Resource Augmentation Plan	Energy Conservation (Green Energy)	Providing 200 Nos. 5KW Capacity Solar Lighting system(includes panels, inverters, structure, connectors, wiring, junction boxes, etc.) to households in nearby villages.	<ul style="list-style-type: none"> ● Dera, - 75 ● NewJiinda - 75 ● Ekdal - 50 	200	250000	5,00,00,000	Dera village confirmed the site. The proposal is submitted for approval. Rest proposals are initiated for other village.
Total-Community Resource Augmentation Plan(Rs.)							26,12,74,000	

Summary

Sl. No.	Activity Proposed	Total (Rs. in Lakhs)
1	Cost of remediation plan	1055.00
2	Natural Resources Augmentation for 3years	320.00
3	Community Resources Augmentation Plan for 3years	2612.74
Total		3987.74

Sl no.	Condition	Compliance Status
4(ii)	Project proponent shall be required to submit a bank guarantee of an amount of Rs. 3987.74 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.	Complied. The bank guarantee of amount of Rs 3987.74 lakhs is submitted to SPCB towards Remedial action plan and Natural and community resource Augmentation plan on date 20.06.2020(Enclosed in Annexure – V)
(iii)	Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.	Agree to comply.
(iv)	Fund allocation for Corporate Environment Responsibility (CER) of Rs. 2.80 crore/- to be implemented as per the details submitted in the Ministry.	Complied. The details as submitted to ministry to be implemented in three years time are in progress.
(v)	Impact due to groundwater abstraction during mining operations analytical and numerical modelling by micro water shed analysis shall be completed at the earliest and submitted to the Ministry and its concerned regional office	Complied. Avenues for knowing the impact of ground water due to ground water abstraction during mining operation is been looked in to. The report shall be submitted as the earliest.
(vi)	Embankment to be constructed along the Bangaru nallah	Construction work is in progress. (Work order copy enclosed in Annexure-VI)
	No discharge of mine water outside the Mining lease area.	Complied. Mine Water is not discharged outside the mine.
(viii)	Regular water quality to be monitored in upstream and downstream of Brahmani river with flow of the river to observe the impact of Bangaru nallah.	Complied. Work is assigned to CMPDI vide workorder no. MCL/HQ/E&F/20-21/23 dtd. 23.03.2021. Water quality monitoring is being done annually.

(ix)	Action plan as submitted to Ministry to control air pollution at Rakas village to be implemented in toto.	Complied.
(x)	All statutory precautions shall be taken as per the DGMS permission.	Complied
(xi)	Wildlife conservation plan shall be prepared for Schedule I (Peafowl) species present in the study area and submitted to the Competent Authority for approval. Same shall be implemented after approval of the Competent Authority.	Not applicable
(xii)	The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.	Noted
(xiii)	State Government concerned shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.	Noted
(xiv)	Automatic mist type sprinkling system shall be installed at crusher house. During transportation of coal from Mine to CHP shall be done by covered trucks with tarpaulin. Adequate number of water sprinklers shall be provided to control dust along coal transport roads	Complied. Automatic mist sprinkling system is installed at CHP. Apart from that, Misters -12 N0s each in 5 N0s circuit are present. 5 nos. of 28 KL Water mobile sprinklers are plied. Automatic mist type sprinkling system-TCR in process
(xv)	Effective dust suppression system shall be adopted along the railway siding area and between villages. Fabric wind barrier shall be established along the Railway Siding and between villages.	Complied. There are no railway siding under the control of Jagannath OCP.
(xvi)	Solid waste management as per SWM rules 2016 shall be complied within their colony.	Complied On contractual basis Civil Department engages persons for

		solid waste managements.
(xvii)	Energy conservation measures adhering to part of ECBC norms shall be complied with.	Complied.LED lights: 45 nos. of 60W and 15 nos of 250 W are installed in colony and 100 nos. of 250W and 150 nos of 400W are installed in mines.75 nos. of Solar panels will be fitted in Dera village.
(xviii)	Quality of Mine discharge water, if any, will be used for drinking purpose shall be checked and should meet the prescribed drinking water standards	Complied No discharge is made.

(xix)	Periodical health check-up shall be conducted to monitor the impact of heavy metals present in core zone & buffer zone air quality and also to prepare an action plan to reduce heavy metals concentration and also report to be submitted to concerned regional office of MoEF & CC.	Complied Work is assigned to CMPDI and heavy metals present in core and buffer zone are monitored quarterly.
(xx)	Study on "Impact of coal mining dust on the soil quality with respect to Physico-chemical, fertility status, exchangeable cations, CEC, and productivity of soil to be carried out and the study report with dully authentication and verification by the concerned authority be submitted to Ministry and concerned regional office by 31.3.2021	Interim report submitted on dt 30.03.2021 to Ministry and concerned regional office ,due to pandemic the final report is to yet to be submitted. (copy enclosed in Annexure-VII)
(xxi)	Project proponent shall obtain closure report from the concerned regional office regarding time bound action plan submitted for partially complied earlier EC conditions	Complied The previous compliance EC conditions submitted ,due to on going pandemic the closure notice is yet to be made.
(xxii)	The mining lease holder shall, after ceasing mining operations, under take re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to condition which is fit for growth of fodder, flora	Complied. Re grassing is done on part of the mine area where mining operation is ceased and this area is also biologically reclaimed. The slopes of the internal dumps where further

	and fauna etc.	dumping is not possible, grassing is being done. Re grassing is done on part of the mine area where mining operation is ceased to restore the land
(xxiii)	Persons of nearby villages shall be given training on livelihood and skill development to make them employable.	Complied The persons of nearby villages are trained in the vocational centers every year and they have been employed in private coal transport works No of persons trained: Departmental: 143 nos; Contractual: 223 nos.
(xxiv)	To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months	Complied. Due to on going pandemic regular medical camps were not setup. Sanitizers: 750 litres and masks: 1,33,000 nos. were distributed to villagers.
(xxv)	Thick green belt of 75m width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution	Complied 4Ha of land has been planted completed. Plantation in 5Ha will be taken up in 2021-22 and rest area in the boundary of expansion area will be taken up next year will be taken up.

5.1 (a) Statutory compliance

Sl. no.	conditions	Compliance status
(i)	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Complied. Already diverted.
(ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable	Not applicable

(iii)	The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule- I species in the study area).	Not applicable
(iv)	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee	Complied The project has obtained CTE& CTO from SPCB, Odisha(copy enclosed in Annexure-VIII)
(v)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	Complied NOC issued by CGWA, New Delhi vide NOC No- CGWA/NOC/MIN/ORIG/2020/7354 with validity up to Dt.30/01/2022.(NOC copy enclosed in Annexure-IX)
(vi)	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.	Complied. Hazardous waste authorization obtained vide no. IND-IV-HW-225/4923 Dt. 24.03.2021.(copy enclosed in Annexure-X)

(b) Air quality monitoring and preservation

Sl. No.	Condition	Compliance status
(i)	Continuous ambient air quality monitoring stations as prescribed in the statue be established in the	Complied. Done in consultation with SPCB the

	<p>core zone as well as in the buffer zone for monitoring of pollutants, namely PM₁₀, PM_{2.5}, SO₂ and NO_x. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months</p>	<p>Ambient Air Quality monitoring and also heavy metals are been monitored once in six months .(copy enclosed in Annexure-IV)</p>
(ii)	<p>The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September , 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.</p>	<p>Complied. The monthly monitoring reports are submitted to Ministry and regional offices.</p>
(iii)	<p>Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of PM₁₀/PM_{2.5}) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.</p>	<p>Complied. All trucks carrying coal which move out of the Mine premises are covered. Effective dust suppression are been done at CHP roads ,loading and unloading operations. The following control measures are installed. Misters- 34 N0s Sprinklers- 18 N0s Water tankers- 5 N0s of 28KL Fog cannon- 1 N0s</p>
(iv)	<p>The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or</p>	<p>Complied. Coal corridors roads are utilised for transporting coal out of the premises</p>

	environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.	of mine. The road does not pass through any villages. Bypass roads for villagers are constructed. Total length of coal corridor road- 21.6 KM
(v)	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.	Complied. All vehicles having PUC certificate are allowed to operate and having valid permit. In operation in one shift No of vehicles (Hyva) deployed – 90 nos.
(vi)	Coal stock pile /crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.	Complied For dust suppression, the following are installed Misters- 34 nos. Sprinklers- 18 nos. Drills are fitted with Dust extractors No of Drills – 5nos.
(vii)	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environment friendly sustainable technology should be implemented for mitigating such parameters.	Complied. The following control measures are implemented. Instant shower system – Work order to be issued in 15 days. Misters Nos provided- 34 nos. Sprinklers- 18 nos Fog cannon – 1 no

(c) Water quality monitoring and preservation

Sl. No.	conditions	Compliance status
(i)	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards	Complied Monitored fortnightly by CMPDI

	vide GSR 742(E) dated 25 th September , 2000 and as amended from time to time by the Central Pollution Control Board.	
(ii)	The monitoring data shall be uploaded on the company' s website and displayed at the project site at a suitable location. The circular No. J-200 12 / 1/2006-1A.11 (M) dated 27 th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	Complied. The monitoring data is uploaded regularly on the company's website.
(iii)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels s hall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.	Complied. No. of wells monitored around mine area for ground water level -1no. Monitoring is done quarterly.
(iv)	Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment , Forest and Climate Change/Regional Office.	Complied. Monitoring of water quality is carried and maintained and submitted to the Ministry.
(v)	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.	Complied. Only mine water is used for mines operations and for dust suppression etc. Rain water harvesting to augment ground water resources are done at 13 points i.e at Project office, JET Hostel, South balanda civil office, JD/02, JC/14, Primary school, CMPF Office, JB/03, JB D/S, Kalakendra, Dispensary, A type(Gobara line), A type(STP Line

(vi)	<p>Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heap s & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be proper consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilized for dust suppression and green belt development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.</p>	<p>Complied External dump of mine is stabilised and biologically reclaimed. Toe wall is constructed at the foot of the dump. All drains present in the mines are de-silted before the monsoon</p>
(vii)	<p>Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).</p>	<p>Complied 13 nos of Ground water recharge points are constructed. They are: at Project office, JET Hostel, South balanda civil office, JD/02, JC/14, Primary school, CMPF Office, JB/03, JB D/S, Kalakendra, Dispensary, A type(Gobara line), A type(STP Line)</p>
(viii)	<p>Industrial waste water generated from</p>	<p>Complied. ETP of 140Cum per/day capacity</p>

	<p>CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Adequate ETP /STP needs to be provided.</p>	<p>is made to handle workshops effluent and the treated effluent is re used . STP of 1 MLD is present for Domestic wastes</p>
(ix)	<p>The water pumped out from the mine, after siltation, shall be utilized for industrial purpose <i>viz.</i> watering the mine area, roads, green belt development <i>etc.</i> The drains shall be regularly desilted particularly after monsoon and maintained properly.</p>	<p>Complied. Discharge out of the mine is not done, after obtaining permission it will be done, drains are de silted before monsoon.</p>
(x)	<p>The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake <i>etc.</i> shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/Go! Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.</p>	<p>Complied. Done and included in Monsoon plan and updated every year before monsoon so that inrush of water in mine does not take place. The natural water course diversion <i>etc.</i> are done as per the EIA/EMP . (copy enclosed in Annexure-XI)</p>
(xi)	<p>The project proponent shall take all precautionary measures to ensure rivarine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A rivarine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.</p>	<p>Complied. Precautionary measures are taken and monsoon plan is prepared every year to assess the dangers.</p>

(d) Noise and Vibration monitoring and prevention

Sl. No.	Conditions	Compliance status
(i)	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.	Complied Protective equipments distributed Ear muff/plugs—326 nos Awareness programmes and safety talks at the start of shift are conducted. Safety day once in month on different topics are implemented. Safety meeting once in a month is conducted. Competitions between mines are conducted once in a year regarding safety.

(ii)	Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.	Complied. Note:-Control blasting techniques with help of RAYDET/NONEL is used for initiation down the hole. Also proper stemming is being done to control the fly rocks. In addition guidelines prescribed by DGMS are followed.
(iii)	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.	Complied. Note:-Noise level survey is carried out as per the prescribed guidelines set by the DGMS. Monthly survey is being carried out to assess the noise exposure of workmen at vulnerable points.(copy enclosed in Annexure-XII)

(e) Mining Plan

Sl. No.	Conditions	Compliance Status
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(i)	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.	Complied. Mining is strictly carried out as per Mines Act 1952 & subordinate legislations
(ii)	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	Complied Mining is carried out as per the approved mine closure plan and abiding by mining laws related to coal mining and relevant circulars issued by DGMS.
(iii)	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	Complied. Note:-Mining is carried out in forest land after obtaining forest clearance on 09-11-2005 and 07-02-2014
(iv)	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	Complied LED lights: 45 nos. of 60W and 15 nos of 250 W are installed in colony and 100 nos. of 250W and 150 nos of 400W are installed in mines. 75 nos. of Solar panels will be fitted in Dera village.

(f) Land reclamation

Sl. No.	Conditions	Compliance status
(i)	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in I :50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).	Complied. Note:-The digital survey of entire lease hold area/core zone using satellite remote sensing survey has been done & the report has been submitted to MoEF&CC vide letter no. MCL/SBP/GM(E&F)/2018/9075 dated 15.06.2018
(ii)	The final mine void depth should preferably be as per the approved Mine	Noted and Complied Mine closure plan for 7.5MTPA has

	<p>Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.</p>	<p>been approved by the MOC,GOI on 16.05.2017.</p>
(iii)	<p>The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/"post mining" land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MoEF &CC/RO.</p>	<p>Complied</p> <p>Present status: Area excavated- 363.25 Ha De-coaled area- 358.76 Ha Technically reclaimed- 206.3 Ha Biological reclaimed (Internal Dump)- 133.15Ha Area under External Dump- 36.47 Ha Biologically reclaimed (External Dump) – 36.47 Ha</p>
(iv)	<p>Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF &CC, CPCB and SPCB.</p>	<p>No fly ash is dumped over External Dump of OB, backfilling or stowing of mine as per the notification issued vide SO 2804(E) dated 3rd November 2009.</p>
(v)	<p>Further, it may be ensured that as per the time schedule specified in mine closure plan it should</p>	<p>Complied. Area Planted(Ext Dump) – 36.47 Ha</p>

	<p>remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilized with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office</p>	<p>No of plants planted(Ext. Dump)- 75200 nos. A total of 283436 nos of plants have been planted under Jagannath OCP in an area of 114.83 Ha since 1992-93.</p>
(vi)	<p>The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land</p>	<p>Complied. Presently on internal dumps, biologically reclaimed area naturally re-grassing has been germinated and grass seeds on slope of the dump have been spread where feasible. No separate land is till explored .Consultation with the state govt. is being done.</p>

(g) Green Belt

Sl. No.	Conditions	Compliance Status
(i)	<p>The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/ fauna, if any, spotted /reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation With the State Forest and Wild life Department.</p>	Not applicable

(ii)	Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/ coal transportation roads.	Complied. 4 ha area planted in the year 2020 5Ha area will be planted in the year 2021
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(h) Public hearing and Human health issues

Sl. No.	Conditions	Compliance status
(i)	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six-monthly basis.	Complied. Departmentally safety department carries out and records are maintained. (Annexure-XIII)
(ii)	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up , 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any , as amended time to time.	Complied Done departmentally by Regional Hospital and records are maintained at Hospital and safety dept of projects. *For the year 2020, PME conducted for 49 nos. only due to Covid 19. IME: 64 Nos.
(iii)	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.	Complied Complied PPE distributed during 2020-21 Mining shoes: 473 Helmet:247 Dust Mask: 2994 Ear muff/plug: 326 Training of persons No of persons VT trained- Departmental: 143 nos.; Contractual: 223 nos.

(iv)	Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.	Noted and Complied. The issues raised in the public hearing are being implemented.
(v)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z-11013/5712014-IA.II (M) dated 29 th October, 2014, titled ' Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area.	Complied. Regular monitoring of water table is being done to ascertain the impact of mining over ground water table. Main haulage road of the mine and other roads are regularly wetted by water sprinklers.

(i)Corporate Environment Responsibility

Sl. No.	Conditions	Compliance Status
(i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Complied The process regarding the activities of Corporate Environment Responsibility are taken up.
(ii)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringement s/deviation/ violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting	Complied. The company has well laid down environmental policy and standard operating procedures to check and bring focus of violations, etc. and reporting system. (copy enclosed in Annexure-XIV)

	infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders	
(iii)	A separate Environmental Cell both at the project and company head quarter level , with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied. Note:-Already framed and implemented from HQ level to Unit Level. The organizational chart is enclosed as below: Project Environment Officer → Area Environment Officer →GM (Envt). Between each step, line managements have been appraised. At Unit level: Project Env. Officer→ Project Officer. At Area level: Area Env. Officer→General Manager. At HQ level: GM (Envt) →D (T/P&P).
(iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry /Regional Office along with the Six Monthly Compliance Report.	Complied. Note:-Action plan already prepared in EIA-EMP and year wise fund for Environmental Protection measures is also incorporated.
(v)	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Complied

(j) Miscellaneous

Sl. No.	Condition	Compliance Status
(i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied. Advertisements have been made (copy enclosed in Annexure-XV)
(ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in tum has to display the same for 30 days from the date of receipt.	Complied The Environment Clearance copies has been submitted to the Heads of the local bodies, Panchayats in addition to the Govt. offices for display. (copy enclosed in Annexure-XVI)
(iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied It is been uploaded in website and updated half yearly.
(iv)	The project proponent shall monitor the criteria pollutants level namely; PM10, S O2, NOx (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied The monitoring data is displayed at Project Office, Balanda showing Ambient levels.
(v)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied The status of the environment conditions is being submitted six monthly to MoEF and Regional Office.

(vi)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-1101 3/57120 14-IA.II (M) dated 29 th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.	Noted and Complied Regular monitoring of water table is being done to ascertain the impact of mining over ground water table. Main haulage road of the mine and other roads are regularly wetted by water sprinklers.
(vii)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Complied The environment statement for each financial year is being submitted in Form- V to SPCB .Last Environment Statement submitted on dt.14.08.2020
(viii)	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.	Complied It is an ongoing project and EC is obtained for expansion from 6MTPA to 7.5MTPA.
(ix)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	Complied CTO obtained vide no. 5078/IND-I-CON-199 date 25.03.2021 for one year.
(x)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted and Complied The issues raised in the public hearing are being implemented.
(xi)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.	Noted No further expansion or modification will be made without approval of the Ministry of Environment & Forests & Climate change
(xii)	Concealing factual data or submission of false/fabricated data may result in	Noted

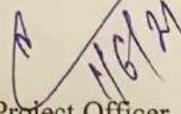
	revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	
(xiii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
(xiv)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
(xv)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Noted
(xvi)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981 , the Environment (Protection) Act, 1986 , Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules made their under and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted and Complied

Sl. No.	Conditions	Compliance status
5	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report as well as during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented by the EC in letter and spirit.	Noted

	environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	
7	Any appeal against this Environment Clearance (EC) shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted
8	The coal company/ project proponent shall be liable to pay the compensation against illegal mining , if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2 nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of ' Common Cause Vs Union of India & others.	Noted
9	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any , is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.	Noted
10	This Environment Clearance (EC) shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable and other statutory requirements.	Complied and noted

This is for your kind information.

Yours faithfully,


Project Officer
Jagannath OCP

REPORT- I
MINISTRY OF ENVIRONMENT FOREST & CC
REGIONAL OFFICE BHUBNESWAR
MONITORING PROFORMA (DATA SHEET) PART-I

1.	Project type: River-Valley/Mining Industry/ Thermal/Nuclear/Other (Specify)	MINING
2.	Name of the Project	Jagannath Colliery
3.	Clearance letter(s) OM No.& Dated	J-11015/177/2015-IA-II(M), dated 09-09-2020
4.	Location: a) District(s), State(s)	Dist: Angul, State: Odisha.
5.	Name & Address of concerned Project Officer, (with Pin Code & Telephone /Telex/Fax Nos.)	Shri Santa Kumar Coudhury Project Officer, Jagannath Colliery PO- Balanda, Talcher Dist: Angul, Odisha, Pin :759116 Ph- 06760-260212 (O)
	b) Address of Executive Project Engineer manager (with Pin Code and Telephone/Telex /Fax Nos.).	
6.	Salient Features of the	
	(a)Project	It is an Opencast Project; Coal is extracted by using Surface Miner, drilling &blasting. OB is extracted by drilling and blasting, blasted material is extracted by using shovel dumper combination. Coal is transported by contractual tipper. Production(2020-21): Coal-5713549.90tone OB-5503042.18 m ³
	(b) Environment Management plan	
I	Air pollution	Wet drilling arrangement in all five drills, 05 number of water sprinkler used for dust suppression, mist sprinkler& fixed sprinklers installed in CHP&FC
II	Water pollution	MDTP,ETP,STP in operation
III	Solid waste/ OB	OB is dumped concurrently in the de-coaled area and then reclaimed both technically and biologically
7.	Breakup of the Project Area	Total Area =553.946Ha Forest- =82.736 Ha
	a) Submergence area (forest & non-forest)	Non Forest =471.21 Ha
	b) Others	Nil
8.	Breakup of the Project affected population With enumeration of those losing houses/ Dwelling units only, agricultural land only, Both dwelling units and agricultural land and less laborers/artisans. a) SC/ST Advises b) Others	Village Purnia,Nakhetrapur,Rakas,Balanda is affected. Total Nos of land oustees sponsored= 738 Nos Nos. of employment provided= 699 Nos Cash in lieu of Employment= 07 Nos Nos. of LO not eligible =28 Nos. Under process =04 Nos
9.	Financial Details	
	a) Project cost as originally planned and	Project Cost 409.08 Cr

	subsequent the years of price reference	(337.66 Cr additional)																
	b) Allocation made for environmental management Plans, with item wise and Year wise break-up.	<table border="1"> <thead> <tr> <th>YEAR</th> <th>2018-19</th> <th>19-20</th> <th>20-21</th> </tr> </thead> <tbody> <tr> <td>R&R</td> <td>15.8Cr</td> <td>3.32Cr</td> <td>10.45Cr</td> </tr> <tr> <td>Restoration Of land</td> <td>105.03 lakh</td> <td>116.69 lakh</td> <td>129.54 lakh</td> </tr> <tr> <td>Anti pollution Control measures</td> <td>6Cr</td> <td>14Cr</td> <td>23.5Cr</td> </tr> </tbody> </table>	YEAR	2018-19	19-20	20-21	R&R	15.8Cr	3.32Cr	10.45Cr	Restoration Of land	105.03 lakh	116.69 lakh	129.54 lakh	Anti pollution Control measures	6Cr	14Cr	23.5Cr
YEAR	2018-19	19-20	20-21															
R&R	15.8Cr	3.32Cr	10.45Cr															
Restoration Of land	105.03 lakh	116.69 lakh	129.54 lakh															
Anti pollution Control measures	6Cr	14Cr	23.5Cr															
	c) Benefit cost ratio/internal rate of return and the year of assessment.	-																
	d) Whether(c) includes the cost of Environmental Management as Shown in (b) above.	YES																
	e) Actual expenditure incurred on the Project so far	The capital cost as per approved PR for EMP is 1546 Lakh																
	f) Actual expenditure incurred on the Env't. Management plan so far	Rs 18.72 per Te. Of Coal produced (approx)																
10	FOREST LAND REQUIREMENTS																	
	(a) The status of approval for a diversion of forest land for non-forestry use	Vide letter No. 8-70/2004-FC, Dt-19.11.2004 for 58.096 Ha and Vide letter No. 8-87/2012-FC,Dt-15.03.2013 for 24.64 Ha																
	(b) The status of clears felling in forest and non-forest lands	Trees felling completed in forest land																
	(c)The status of compensatory afforestation	Completed																
	(d)Comments on the viability and Sustainability of compensatory afforestation programme in the light of actual field experience so far	Compensatory afforestation programme is viable and highly essential for sustainability of the ecosystem.																
11	Status of construction:																	
	(a)Date of commencement (actual and / or planned	26.01.1971																
	(b) Date of completion (actual and/or planned	Ongoing project																
12	Reason for the delay if the project is yet to start	NA																
13	Date of site visits																	
	a) The dated on which the Project was Monitored by the Regional Officer on Previous occasions if	26.12.2019																
	b) Date of site visit for this monitoring Report	26.12.2019																
14	Details of correspondence with Project Authorities for obtaining action plans, Information & status of compliance to Safeguards.	NR																

ANNEXTURE –II

PROFOMA FOR PROVIDING INFORMATION ON REHABILITATION

1	No. of village affected	04			
2	Families affected(PAF's)	803			
3	Compensation package offered per family	As per norms of Odisha Govt. and R&R Policy of CIL/MCL.			
4	Budget estimate for rehabilitation				
(a)	Total Outlay	919 Lakhs(As per 7.5 MTPA EMP includes cost estimate for Resettlement and Rehabilitation)			
(b)	Amount paid/used	Rehabilitation &Resettlement	2018-19	2019-20	2020-21
			15.8 Cr	3.32Cr	10.45Cr
5	Employment details				
(a)	Total employment to be provided	703			
(b)	Employment given so far	699			
6	Rehabilitation & Resettlement Details	803			
(a)	No. of families resettled	561			
	i)Name of the site	Handidhua R&R site			
	ii)Families resettled	321			
(b)	Families yet to be rehabilitated	242			
	i)Name of the sites	180 Nos in Bouldpur R&R site			
7	Any other information	240 Nos cash already paid 62 Nos cash to be paid			

MINISTRY OF ENVIRONMENT FORESTS & CC
EASTERN REGIONAL OFFICE
A/3 Chandrasekharpur, Bhubaneswar -751 023

**FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT/
PLANTATION UNDER F© ACT 1980 AND E (P) ACT 1986.**

1(a)	Name of the Organization	Mahanadi Coalfields Limited, A Subsidiary of Coal India Limited
(b)	Envt. /Forest clearance Order No.	(1)8-70/2004-FC, Dt-19.11.2004 for 58.096 Ha (2)8-87/2012-FC, Dt-15.03.2013 for 24.64 Ha
2.	Location, Block/Sub Divn. /Dist./State	Dist: Angul, Block: Talcher, Odisha
3.	Address for communication	Jagannath Colliery PO- Balanda, Talcher Dist: Angul, Odisha, Pin :759116 Ph- 06760-260212 (O)
4.	Existing vegetation in the area/region	Mango, Sal, Bamboo, Mahul, Jamun etc.
(a)	Major prevalent species of each type	Mango, Sal, Bamboo, Mahul, Jamun etc.
5.	Land coverage by the Project.	
(a)	Total area under the Project	553.946 Ha
(b)	Area covered for basic infrastructure: (Roads)/building /factory etc.)	
6.	Details about natural vegetation	Trees and shrubs are available
(a)	Name and number of plant species :	Mango, Sal, Bamboo, Mahul, Jamun etc
(b)	By protecting the area will Indigenous stock comes up?	-
(c)	Extent of green belt developed	Plantation done in 4Ha in 2020-21 Proposed in 5Ha in 2021-22
7.	Plantations required to be carried out As per. Conditions of Environmental Clearance / in Ha. / Nos	2500Nos. /Ha.
(a)	A conditions of Forest© Act for aforestation	Double the area of forest land used for non-forestry purposes.
(b)	Voluntarily in ha. /nos	2500 per Ha.

8.Details about Plantation :

(a)Total area available for plantation in each category : During the year 2020-21

Block plantation	Nil
Backfilled Area	4Ha
Road sides	Nil
Dump(Ext.)	Nil
Green belt	Nil
Remarks slope plantation	Nil

(b)Plantation details(Category wise
and Methodology used)

: In year 2020-21,
10000 nos of trees has been planted in 4Ha

(c)Survival % of Plantation

: Survival percentage of plantation
of year 2020-21 is 90%

9.Agency carrying out Plantation

: CGRVVNL, Bilaspur, Chhattisgarh

10.Financial details (year wise)

Plantation wise and item wise

: payment made Rs 1496700.00 against 50%
1st Installment of advance

11.Inspection of plantation by field Experts

and their comments and Follow up action. : By CGRVVNL

12.Remarks/any other information

: NA

ANNEXTURE-IV

EFFLUENT QUALITY DATA

Station No.	Monitoring Stations	All dimensions are in mg/l unless otherwise stated except pH				
		pH	Oil & grease	TSS	COD	BOD
1	STP Outlet	7.12	-	24	-	<2.0
	STP Outlet	7.38	-	28	-	<2.0
2	O&G Trap Inlet(4P)	6.55	4.2	26	60	-
	O&G Trap Inlet(4P)	7.34	<4.0	14	36	-

NOISE LEVEL MEASUREMENT IN DBA

Station No.	Monitoring Stations	DAY		NIGHT	
		Min.	Max.	Min.	Max.
1	Ananta Vihar Colony	56.2	63.8	53.4	60.2
2	Near MDTP	56.4	72.3	55.0	69.7
3	Near NBVL Park	58.4	68.5	56.4	63.1
4	Officers Club,JNC	57.6	63.1	52.4	58.9

GROUND WATER LEVEL MONITORING DATA

Station No.	Date	Location	Ground Water Level(mtr)
1	30-11-20	Piezometer No.-MTP 04	3.90
	23-01-21	Piezometer No.-MTP 04	3.55

AMBIENT AIR QUALITY DATA

Station No.	Monitoring Stations	Concentration ($\mu\text{g}/\text{m}^3$)									
		PM2.5		PM10		Sox		Nox		SPM	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Compliance station											
1	Near NVBL Park	25	73	80	230	10.90	28.76	18.60	53.07	153	313
2	Near MDTP	28	75	72	242	7.50	25.47	13.39	50.52	158	486
MoEF Standard 2009				250		120		120		500	
Reference Station											
1	Officers Club	19	48	51	93	8.38	14.16	15.92	25.15	87	156
2	Ananta Vihar Colony	19	57	58	95	7.99	31.69	14.83	52.64	89	216
NAAQS 2009 Standard		60		100		80		80			

AMBIENT AIR QUALITY DATA(NAAQS PARAMETER)

Monitoring Station	Ozone (O_3) $\mu\text{g}/\text{m}^3$		Lead(Pb) $\mu\text{g}/\text{m}^3$	Arsenic(As) $\mu\text{g}/\text{m}^3$	Nickel(Ni) $\mu\text{g}/\text{m}^3$
	Min	Max			
Officers Club JNC	2.04	4.01	<0.1	<1.0	<1.0
Ananta Vihar Colony	2.52	4.28	<0.1	<1.0	<1.0
Standard	180(hour)		1.0(24hours)	6.0(Annual)	20(Annual)

DRINKING WATER QUALITY DATA

Monitoring Station	Balanda Colony Tap water		Jagannath Colony Tap water	Indian drinking standards IS-10500:2012	
				Acceptable	permissible
Colour(Hazen)	Min	1	1	5	15
	Max	4	4		
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity (NTU)	Min	1	1	1	5
	Max	2	2		
pH	Min	6.79	6.73	6.5-8.5	No relaxation
	Max	7.34	7.34		
Total Alkalinity (mg/L)	Min	40	40	200	600
	Max	296	272		
Total Hardness (CaCO ₃)mg/L)	Min	229.7	58.8	200	600
	Max	361.3	365.2		
Iron(mg/L)		<0.1	<0.1	0.3	No relaxation
Chloride (mg/L)	Max	10	6	250	1000
	Min	149	18		
Total dissolve solid (mg/L)	Max	312	108	500	2000
	Min	868	506		
Calcium(mg/L)	Max	61.89	17.28	75	200
	Min	106.6	105.01		
Copper(mg/L)		<0.3	<0.3	0.05	1.5
Manganese (mg/L)	Min	<0.04	<0.04	0.1	0.3
	Max	0.10	0.09		
Sulphate(mg/L)	Min	103.55	5.78	200	400
	Max	251.62	217.21		
Nitrate(mg/L)	Min	<0.5	<0.5	45	No relaxation
	Max	31.24	20.37		
Fluoride(mg/L)	Min	<0.3	<0.3	1	1.5
	Max	0.67	<0.3		
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)	Min	<0.04	0.04	5	15
	Max	0.24	0.34		
Total Chromium (mg/L)	Min	<0.01	<0.01	0.05	No relaxation
	Max	<0.01	0.016		
Boron(mg/L)		<0.1	<0.1	0.5	1.0
Cadmium(mg/L)		<0.001	<0.001	0.003	No relaxation



MCL

MAHARAJA COLLEGE OF MANAGEMENT & COMMERCE
 ମହାରାଜା କୋଲେଜିଏଟ୍ କଲିଜିଏଟ୍
 ମହାନଦୀ ଜୋଇନିଂଗ୍ କମ୍ପ୍ଲେକ୍ସ ଭୁବନେଶ୍ୱର
 A Subsidiary of Coal India Limited
 Office of the Project Officer, Jagannath Colliery
 Jagannath Area, PO:- Balanda, Dist:- Angul, Odisha - 751116
 Phone: 06760-250212, 260483, 260921, Fax: 06760-250211, 250212
 An ISO 9001:2004 & ISO 14001:2004 Certified Project

पत्रांक:- पीओ/जे.एन.सी/२०२०/ 2783

ता. 28.06.2020

To
The Member Secretary
Odisha State Pollution Control Board

Sub:- *Submission of Bank Guarantee of Rs. 3987.74 Lakhs for the work to be under taken towards remediation plan and natural & community resources augmentation plan as advised by MoEF &CC, New Delhi in 32nd EAC meeting for obtaining EC of Jagannath OCP from 6.00 MTY to 7.5 MTY.*

Dear Sir,

As per the minutes of 32nd EAC meeting held by MoEF &CC, New Delhi on (22nd- 23rd April-2020 through video conference recommended the proposal for grant of Environment Clearance subject to the compliance of specific condition in-addition all standard condition. in point no-3 the Project proponent is required to submit a Bank Guarantee of an amount of Rs. 3987.74 Lakhs towards remediation plan and natural & community resources with SPCB prior to grant of EC. The works relating to the budget of Rs.3987.74 Lakhs is to be spent in the span of three years. The details is enclosed as minutes of 34th meeting of expert appraisal committee point no-34.3.5.

Enclosed:

1. Minutes of 32nd EAC meeting held on 22nd-23rd April-2020 involving violation of EIA notification 2006 (point no.32.4.5), (Annexure-A).
2. Minutes of 34th EAC meeting held on 04th June 2020 involving violation of EIA notification 2006 (point no.34.3.5), (Annexure-B)
3. The Bank guarantee made from SBI, MCL Complex Burla Branch for Rs.3987.74 Lakhs. dtd. 19.06.2020 to Member Secretary, State Pollution Control Board, Odhisa. (Annexure-A).
4. Notification of Ministry Of Environment, forest and climate change, New Delhi regarding deposit of Bank guarantee to State pollution control board (Annexure-D)

The Existing Environment clearance of Jagannath OCP from 6MTY to 7.5MTY is valid upto 30th June 2020.

In view of above it is requested for your kind acknowledgement and assist in issuance of EC of Jagannath OCP from 6.00 MTY to 7.5 MTY from MoEF &CC, Govt. of India.

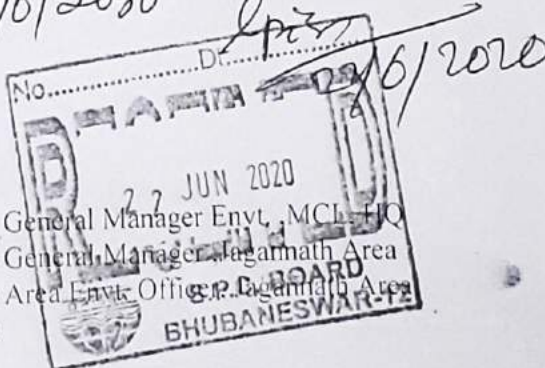
*Received Original Bank Guarantee
 on 29/6/2020*

भवदीय/ Yours Sincerely,

2016/2020
 प्रकल्प अधिकारी/Project Officer
 जगन्नाथ ओसीपी/Jagannath OCP

Copy to:-

1. The General Manager Env't, MCL-HQ
2. The General Manager, Jagannath Area
3. The Area Env't Officer, Jagannath Area
4. File





MCL

Ref.No. CGM(JA)/SO(C)/e-Tender(WO)/20-21/8292 Date: 17-11-2020

To,
Sri Bijay Kumar Pradhan, Contractor (GST No.21ADYPP5274G1Z4)
At: Badasinghada, PO: N.S.Nagar, Bharatpur, Dist: Angul(Odisha)
e-mail:bijaykumar.pradhan1979@gmail.com(Mobile No.9439351787)

Sub:- Award of work for "Construction of embankment along Bangaru Nallah at Jagannath OCP under Jagannath Area (T. I.D. No.2020_MCL_177657_1) (Bidder ID No.543056)"
Ref:- (1) NIT No.MCL/CGM(JA)/SO(C)/e-Tender/2020-21/53, dated 15-07-2020.
Bid opening date - 06-08-2020

Dear Sir,

With reference to above noted tender, the contract for "Construction of embankment along Bangaru Nallah at Jagannath OCP under Jagannath Area" is hereby awarded to you for a contract value of Rs.63,81,735.00 (Rupees sixty three lakh eighty one thousand three hundred thirty five) only and your quoted amount excluding Goods and Services Tax(GST) is Rs.54,08,250.00 (Rupees fifty four lakh eight thousand two hundred fifty) only which is 13.87% above the estimated value. The award is subject to the following terms & conditions:-

- (1) That an amount of Rs.70,100.00 (Rupees seventy thousand one hundred) only deposited by you towards the earnest money through online fund transfer vide PRN No.182918543056 Bank No.66552023, did.30-07-2020, Axis Bank is being adjusted as a part of Performance Security Deposit.
- (2) (i) That the total Performance Security Deposit including EMD amount will be limited to 5.00% of the value of work i.e. Rs.3,19,087.00 (Rupees three lakh nineteen thousand eighty seven) only. The balance amount of performance security deposit Rs.2,48,987.00 (Rupees two lakh forty eight thousand nine hundred eighty seven) only (Rs.3,19,087.00 minus Rs.70,100.00) shall be submitted by you within 28 days from the date of issue of this letter of award/acceptance in any of the form given below:-
 - (a) A Bank guarantee in the form given in the bid document, if applicable as per terms and conditions of the NIT.
 - (b) Govt. securities, FDR or any other form of deposit stipulated by the owner.
 - (c) Demand draft drawn in favour of Mahanadi Coalfields Limited on any scheduled Bank payable at its Branch at Talcher.(ii) If the performance security is provided by you in the form of bank guarantee, it shall be issued either -
 - a) At your option by a nationalized/scheduled Indian Bank or
 - b) By a foreign bank located in India and acceptable to the employer.
 - c) The validity of the Bank Guarantee shall be for a period of one year or ninety days beyond the period of contract, whichever is more.
- (iii) There is no AHR/ALR item in this work.

If you fail to comply with the requirement as stated above it shall constitute sufficient ground for cancellation of the award of work and forfeiture of the bid security.

Contd.....P/2

Bijay Kumar Pradhan
Contractor

S. O. Pradhan
(J.A.)

[Handwritten signature]

- (3) That all running on account bills shall be paid at 95% (ninety-five percent) of work value. This 5% (five percent) deduction towards retention money will be the second part of security deposit. Refund of security deposit shall be dealt as per Clause No. 4 of the general terms and conditions of the tender document.
- (4) That the security deposit amount & all other deductions as stated above shall not carry any interest.
- (5) A copy of the BOQ is enclosed herewith for ready reference.
- (6) Agreement must be executed before commencement of the work. This work should be completed within a period of 75 (Seventy five) days time which shall be reckoned from the next day of execution of agreement.
- (7) That the arrangement of all materials including cement & steel for the total work shall be your responsibility as per terms of original tender document conditions.
- (8) Price variation clause is not applicable for this work as per the additional terms and conditions of the NIT.
- (9) All the terms & conditions of original tender shall be applicable for this work.
- (10) The Royalty Clearance Certificate should be submitted by you from the appropriate State Govt. Authorities prior to payment of Final Bill/Release of Security Deposit.
- (11) You have to ensure implementation of CMPF and Miscellaneous Provision Act 1948 and allied scheme framed thereunder (if applicable) in respect of the workers employed by you as per the provisions of the tender documents under "CMPF" Clause.
- (12) If available, electricity will be supplied at one point and necessary recovery of the cost of energy consumed will be made at the rates prescribed by the department from time of time. Energy meter for this purpose shall be provided by you.
- (13) The arrangement of water for the construction purpose shall be your responsibility.
- (14) The licence as per Contract labour (R&A) Act. 1970 shall have to be obtained before execution of the agreement (if applicable).
- (15) That the Insurance Policies as per Clause No. 13 (xviii) of the General terms and conditions of the tender document shall be submitted before execution of the agreement (if applicable).
- (16) That the payment to the workmen engaged on the work shall be made as per minimum wages act, in the presence of the authorized representative of the department and necessary payment certificate shall be obtained. All other provisions made in the various made in the statutes including contract labour (Regulation & Abolition) Act.1970 and the Contractor Labour (Regulation & Abolition) Central Rules, 1971. Minimum Wages Act, Workmen Compensation Act etc. and latest amendment thereof will be maintained by you.
- (17) You must not engage any Child Labour during the course of execution of the contract work within the meaning and scope of the Child Labour Prohibition & Regulation Act-1986 & its relevant Act and Rules amended from time to time by the Govt. of India.

Contd....P/3

Bija Kumar Pradhan
Contractor

S. O. S. (J. A.)
A. Kishor

12A

(18) You are requested to submit the details regarding your bank account as per the Mandate form duly filled in, self-authenticated & certified by the concerned bank to facilitate e-Payment.

(19) That the matters relating to any dispute or difference arising out of this tender, work order and subsequent contract agreement entered into based on this tender and work order shall be subject to the jurisdiction of District Court, Angul(Orissa) only.

You are requested to submitted a non-judicial stamp paper of value of Rs.50/- (Rs.20/- + Rs.20/- + Rs.10/-) (Rupees fifty) only for execution of the agreement for this work within a period of 28 (twenty eight) days from receipt of this letter and also attend this office for signing the agreement alongwith following documents:-

- (i) The copy of PAN CARD, GST Regn. Certificate, Insurance Policies (if applicable), Joint Venture Agreement, Power of Attorney etc. and the balance of Performance Security Deposit and ALR amount as per Clause No. 2 (i), (ii) & (iii) above.
- (ii) Certificate regarding handing over of the site without any encumbrance duly signed by the authorized representative of the contractor and Chief Manager(Civil), Jagannath Colliery.
- (iii) Time Bound Programme for completion of the work within the scheduled time as per NIT showing physical progress of work duly signed by the authorized representative of the contractor and Chief Manager(Civil), Jagannath Colliery.

S/Sri Rajit Kumar Pradhan, Sr.Overseer(Civil), Jagannath Colliery, Jarmani Bhutia, Sub-ordinate Engineer(C), Jagannath Colliery /Site Engineer and Alok Kumar, Chief Manager(Civil), Jagannath Colliery /Engineer-in-Charge shall be responsible for recording measurement in the M.B., 1st level check measurement and 2nd level check measurement respectively for this work. However, subsequently changes if needed during process of work, may be made by the Project Authority with intimation to this office.

Please contact Chief Manager(Civil), Jagannath Colliery to start the work immediately.

STAFF OFFICER(CIVIL),
JAGANNATH AREA.

Copy to IEM for kind information:-

Copy to:-

- (1) General Manager, Jagannath Area. } Sri Sunil Kumar Chourasia, IOFS(Retd.), Flat 9, Dutt Arcade-II,
- (2) T.S. to C.V.O., MCL, HQ., Burla. } Civil Lines(Near Hotel Jacksons), Jabalpur-482001
- (3) Dy.CFM, Jagannath Area in ref. to Dy.No. FC/JA/REV/2020-21/4732/TCR/O.C./F-19/S-116,
dtd. 17-11-2020 for Rs.63,81,735.00
- (4) Area Finance Manager, Jagannath Area.
- (5) Project Officer, Jagannath Colliery
- (6) Chief Manager(Civil) (Q.C.Dept.), MCL HQ., Burla
- (7) Dy.Manager(Personnel), Jagannath Colliery
- (8) Sri Alok Kumar, Chief Manager(Civil), Jagannath Colliery.
- (9) Sri Jarmani Bhutia, Sub-ordinate Engineer(C), Jagannath Colliery.
- (9) Sri Rajit Kumar Pradhan, Sr.Overseer(Civil), Jagannath Colliery.

12/11/2020
STAFF OFFICER(CIVIL),
JAGANNATH AREA.

Wishu

Kumar Pradhan

CIVIL



MCL

MAHANADI COALFIELDS LIMITED

ମହାନଦୀ କୋଲଫିଲ୍ଡସ୍ ଲିମିଟେଡ୍

महानदी कोलफील्ड्स लिमिटेड

Office of the Project Officer, Jagannath Colliery

Jagannath Area, P.O: Balanda, Dist: Angul, Odisha

Pin: 759103, Ph: 06760-260212, 260458, 260321

email: jagannathcolliery@gmail.com

An ISO 9001:2008 & 14001:2004 Certified Project

Ref No. PO/JNC/ ENVT//2021/ 1122

Date: 30-03-2021

To

The Additional Director(S),
Envt. Monitoring Cell,
MoEF, Paryavaran Bhavan,
CGO Complex ,
New Delhi -110003

Sub: submission of interim study report on Impact of coal mining dust on the soil quality in respect of Jagannath open cast project

Reference: Letter no. J-11015/177/2015-IA.II(M) on dated 09/09/2020

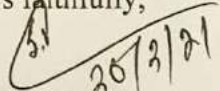
Dear sir,

The study is been conducted by Dept. of Environment science and Engineering ,IIT(ISM),Dhanbad in association with CMPDI, report is been delayed due to on going pandemic. An interim study report in reference to the term and condition/specific condition as mentioned in point N0-4 (xx) of above mentioned Environment clearance letter in respect of Jagannath open cast project 6MTPA to 7.5MTPA regarding Impact of coal mining dust on the soil quality is been submitted.

It is requested for extension of time for a period of six months for Submission of Final report .

This is for your kind information.

Yours faithfully,


30/3/21
Project Officer
Jagannath OCP

Copy to-

1.The Dy. Director General of Forest(Central)
Eastern Regional Office, MoEF&CC,BBSR-751016

**CONSENT ORDER**
JAGANNATH COLLIERY OF M/S. MCL

BY REGD. POST WITH AD

STATE POLLUTION CONTROL BOARD, ODISHA

A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012

Phone-2561909, Fax: 2562822, 2560955 E-mail: paribesh1@ospcboard.org, Website: www.ospcboard.org**CONSENT ORDER**No. 5078 / IND-I-CON-199 Dt. 25.03.2021 /**CONSENT ORDER NO 252**

Sub: **Consent for discharge of sewage and trade effluent under section 25/26 of Water (PCP) Act, 1974 and for existing / new operation of the plant under section 21 of Air (PCP) Act, 1981.**

Ref: **Your online application No. 3241211, Dated 13-01-2021 and your online reply dated 2.02.2021**

Consent to operate is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed thereunder to

Name of the Industry: **JAGANNATH COLLIERY OF M/S. MCL**Name of the Occupier & Designation: **S. K. CHOUDHURY, PROJECT OFFICER**Address: **JAGANNATH AREA, PO: SOUTH BALANDA, DIST: ANGUL, PIN-759116.**

This consent order is valid for the period upto **31.03.2022** from date of issue of this **order.**

This consent order supersedes the earlier consent order issued vide Board's letter No. 3872 dated 27.3.2020.

Details of Products Manufactured

Sl. No.	Product	Quantity
1.	Coal	7.5 MTPA

This consent order is valid for the specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated therein.



CONSENT ORDER
JAGANNATH COLLIERY OF M/S. MCL

A. Discharge permitted through the following outlet subject to the standard

Out let No.	Description of outlet	Point of discharge	Quantity of discharge KL/hr	Pre-scribed Standard			
				pH	TSS (mg/l)	Fecal Coliform (MPN/100ml)	BOD (mg/l)
01	STP outlet (Domestic effluent)	On land for irrigation after treatment in STP	1 MLD (Max.)	6.5-9.0	<100	<1000	30

B. Emission permitted through the following stack subject to the prescribed standard

Chimney Stack No.	Description of Stack	Stack height (m)	Quantity of emission	Prescribed Standard			
				PM (mg/Nm ³)	SO ₂	NO _x	
						--	

C. Disposal of solid waste permitted in the following manner

Sl. No.	Type of Solid waste	Quantity generated (TPD)	Quantity to be reused on site(TPD)	Quantity to be reused off site(TPD)	Quantity disposed off (TPD)	Description of disposal site.
	Top soil/over burden	As per approved mining plan	--	--	--	As per approved mining plan



CONSENT ORDER
JAGANNATH COLLIERY OF M/S. MCL

D. GENERAL CONDITIONS FOR ALL UNITS

1. The consent is given by the Board in consideration of the particulars given in the application. Any change or alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground liable for review/variation/revocation of the consent order under section 27 of the Act of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations as deemed fit for the purpose of the Acts.
2. The industry would immediately submit revised application for consent to operate to this Board in the event of any change in the quantity and quality of raw material / and products / manufacturing process or quantity /quality of the effluent rate of emission / air pollution control equipment / system etc.
3. The applicant shall not change or alter either the quality or quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
4. The application shall comply with and carry out the directives/orders issued by the Board in this consent order and at all subsequent times without any negligence on his part. In case of non-compliance of any order/directives issued at any time and/or violation of the terms and conditions of this consent order, the applicant shall be liable for legal action as per the provisions of the Law/Act.
5. The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent order.
6. The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State laws or regulation.
7. This consent does not authorize or approve the construction of any physical structure or facilities or the undertaking of any work in any natural water course.
8. The applicant shall display this consent granted to him in a prominent place for perusal of the public and inspecting officers of this Board.
9. An inspection book shall be opened and made available to Board's Officers during the visit to the factory.
10. The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or of effluent treatment system / air pollution control system / stack monitoring system any other particulars as may be pertinent to preventing and controlling pollution of Water / Air.
11. Meters must be affixed at the entrance of the water supply connection so that such meters are easily accessible for inspection and maintenance and for other purposes of the Act provided that the place where it is affixed shall in no case be at a point before which water has been tapped by the consumer for utilization for any purposes whatsoever.
12. Separate meters with necessary pipe-line for assessing the quantity of water used for each of the purposes mentioned below:
 - a) Industrial cooling, spraying in mine pits or boiler feed,
 - b) Domestic purpose
 - c) Process
13. The applicant shall display suitable caution board at the place where the effluent is entering into any water-body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.
14. Storm water shall not be allowed to mix with the trade and/or domestic effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.
15. The applicant shall maintain good house-keeping both within the factory and the premises. All pipes, valves, sewers and drains shall be leak-proof. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
16. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems install or used by him to achieve with the term(s) and conditions of the consent.
17. Care should be taken to keep the anaerobic lagoons, if any, biologically active and not utilized as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed with sides and bottom made impervious.
18. The utilization of treated effluent on factory's own land, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or by overflow.
19. The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.
20. If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the industry must adopt alternate satisfactory treatment and disposal measures.
21. The sludge from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank.
22. The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
23. The applicant shall provide port holes for sampling the emissions and access platform for carrying out stack sampling and provide electrical outlet points and other arrangements for chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provision of the Act or Rules made therein.
24. The applicant shall provide all facilities and render required assistance to the Board staff for collection of samples / stack monitoring / inspection.



CONSENT ORDER
JAGANNATH COLLIERY OF M/S. MCL

25. The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and/or quantity of emissions, without the previous written permission of the Board.
26. No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.
27. The liquid effluent arising out of the operation of the air pollution control equipment shall be treated in the manner and to ion of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended).
28. The stack monitoring system employed by the applicant shall be opened for inspection to this Board at any time.
29. There shall not be any fugitive or episodal discharge from the premises.
30. In case of such episodal discharge/emissions the industry shall take immediate action to bring down the emission within the limits prescribed by the Board in conditions/stop the operation of the plant. Report of such accidental discharge /emission shall be brought to the notice of the Board within 24 hours of occurrence.
31. The applicant shall keep the premises of the industrial plant and air pollution control equipments clean and make all hoods, pipes, valves, stacks/chimneys leak proof. The air pollution control equipments, location, inspection chambers, sampling port holes shall be made easily accessible at all times.
32. Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge/emission of air pollutants and / or result in violation of the standards mentioned above shall be reported to the Headquarters and Regional Office of the Board by fax / speed post within 24 hours of its occurrence.
33. The industry has to ensure that minimum three varieties of trees are planted at the density of not less than 1000 trees per acre. The trees may be planted along boundaries of the industries or industrial premises. This plantation is stipulated over and above the bulk plantation of trees in that area.
34. The solid waste such as sweeping, wastage packages, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the industrial plants shall be disposed off scientifically to the satisfaction of the Board, so as not to cause fugitive emission, dust problems through leaching etc., of any kind.
35. All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by :
 - i) Land fill in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.
 - ii) Controlled incineration, wherever possible in case of combustible organic material.
 - iii) Composting, in case of bio-degradable material.
36. Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxication or sealing and burying shall be carried out in the presence of Board's authorized persons only. Letter of authorization shall be obtained for handling and disposal of hazardous wastes.
37. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.
38. The applicant, his/heirs/legal representatives or assignees shall have no claim whatsoever to the condition or renewal of this consent after the expiry period of this consent.
39. The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent.
40. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves to it the right and power under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Act by the Board.
41. The conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 A of Air (Prevention & Control of Pollution) Act, 1981.
42. In case the consent fee is revised upward during this period, the industry shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the amount within the period stipulated by the Board the consent order will be revoked without prior notice.
43. The Board reserves the right to revoke/refuse consent to operate at any time during period for which consent is granted in case any violation is observed and to modify/ stipulate additional conditions as deemed appropriate

GENERAL CONDITIONS FOR UNITS WITH INVESTMENT OF MORE THAN Rs 50 CRORES, AND 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES (RED A).

1. The applicant shall analyse the emissions every month for the parameters indicated in TABLE .B & C as mentioned in this order and shall furnish the report thereof to the Board by the 10th of the succeeding month.
2. The applicant shall provide and maintain at his own cost three ambient air quality monitoring stations for monitoring Suspended Particulate Matter, Sulphur Dioxide, Oxides of Nitrogen, Hydro-Carbon, Carbon-Monoxide and monitor the same once in a day/week/fortnight/month. The data collected shall be maintained in a register and a monthly extract be furnished to the Board.
3. The applicant shall provide and maintain at his own cost a meteorological station to collect the data on wind velocity, direction, temperature, humidity, rainfall, etc. and the daily reading shall be recorded and the extract sent to the Board once in a month.



CONSENT ORDER
JAGANNATH COLLIERY OF M/S. MCL

4. The applicant shall forward the following information to the Member Secretary, State Pollution Control Board, Orissa, Bhubaneswar regularly.
 - a. Report of analysis of stack monitoring, ambient air quality monitoring meteorological data as required every month.
 - b. Progress on planting of trees quarterly.
 5. The applicant shall install mechanical composite sampling equipment and continuous flow measuring / recording devices on the effluent drains of trade as well as domestic effluent. A record of daily discharge shall be maintained.
 6. The following information shall be forwarded to the Member Secretary on or before 10th of every month.
 - a. Performance / progress of the treatment plant.
 - b. Monthly statement of daily discharge of domestic and/or trade effluent.
 7. **Non-compliance with effluent limitations**
 - a) If for any reason the applicant does not comply with or is unable to comply with any effluent limitations specified in this consent, the applicant shall immediately notify the consent issuing authority by telephone and provide the consent issuing authority with the following information in writing within 5 days of such notification.
 - i) Causes of non-compliance
 - i) A description of the non-compliance discharge including its impact on the receiving waters.
 - ii) Anticipated time of continuance of non-compliance if expected to continue or if such condition has been corrected the duration or period of non-compliance.
 - iii) Steps taken by the applicant to reduce and eliminate the non-complying discharge and
 - iv) Steps to be taken by the applicant too prevent the condition of non-compliance.
 - b) The applicant shall take all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with any effluent limitation specified in this consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.
 - c) Nothing in this consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance whether or not such non-compliance is due to factors beyond his control, such as break-down, electric failure, accident or natural disaster.
 8. The applicant shall at his own cost get the effluent samples collected both before and after treatment and get them analysed at an approval laboratory every month for the parameters indicated in Part-D and shall submit in duplicate the report thereof to the Board.
 9. The addition of various treatment chemicals should be done only with mechanical dosers and proper equipment for regulation of correct dosages determined daily and for proper uniform feeding. Crude practices such as dumping of chemicals in drains or sumps or trickling of acids or alkalies arbitrarily and utilizing poles for stirring etc. should not be resorted to.
 10. In the disposal of treated effluent on land for irrigation, the industry shall keep in view of the need for;
 - Rotation of crops
 - Change of point of application of effluent on land
 - A portion of land kept fallow.
 11. The adoption of these would avoid soil becoming sick or slate, the industry may ensure this in consultation with the Agriculture Department.
 12. It is the sole responsibility of the industry to ensure that there are no complaints at any time from the royats in the surrounding areas as a result of discharge of sewage or trade effluent if any.
 13. Proper housekeeping shall be maintained by a dedicated team.
 14. The industry must constitute a team of responsible and technically qualified personnel who will ensure continuous operation of all pollution control devices round the clock (including night hours) and should be in a position to explain the status of operation of the pollution control measures to the inspecting officers of the Board at any point of time. The name of these persons with their contact telephone numbers shall be intimated to the concerned. Regional Officer and Head Office of the Board and in case of any change in the team it shall be intimated to the Board immediately.
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E. SPECIAL CONDITIONS:

- 1) Mining operation is subject to availability of all other statutory clearances required under relevant Acts/Rules.
 - 2) Excavation of coal shall be done using surface miners. The surface miner shall be operated along with dust control measures.
 - 3) Drills shall either be operated with dust extractors or equipped with water injection system to minimize dust generation in the work environment. Controlled blasting shall also be done and blasting shall be carried out during day time.
 - 4) Coal handling plant/ Crusher unit shall be operated with adequate dust extraction system or dry fog system for dust suppression. Loading, unloading areas and conveyor systems including all transfer points and coal stack yard shall have adequate dust suppression measures. The pollution control systems shall be properly maintained and operated.
 - 5) The house keeping in CHP shall be improved by 31.5.2021.
 - 6) Proper water spray system with rain guns shall be provided all along the coal stockyards of the mine to deal with fugitive dust and coal fire.
 - 7) All internal coal transportation roads shall be black topped/concreted. Necessary dust suppression measures shall also be taken in these roads to prevent generation of dust during movement of vehicles. Plantation of thick leaf trees on both sides of the road shall be done.
 - 8) Mobile water sprinkling shall be provided for dust suppression on the temporary quarry haul roads and sprinkling of water shall be done at desired intervals so as to prevent generation of fugitive dust.
 - 9) All internal coal transportation roads, temporary mine haul roads and other material transportation roads of the mine shall be maintained properly to avoid creation of ruts and pot holes.
 - 10) The transportation of coal shall be carried out as per stipulations in the Environmental Clearance Order of the mine.
 - 11) Coal transportation through roads shall be done in covered vehicles.
 - 12) Instant water shower system at the exit point of the quarry shall be provided by 31.7.2021 and all heavy vehicles loaded with coal shall move through the instant shower system. Mechanized wheel washing facility for coal transport vehicles at the exit point of the quarry or at the coal stack yard as per the requirement shall be provided. The wheel washing facility shall be integrated with complete recirculation system.
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- 13) The railway sidings, if any, shall have adequate fixed water sprinkling system to prevent generation of dust during unloading and loading activities. In addition to this, firefighting system shall be in place to control fire in the coal stack yard of railway sidings.
- 14) Fog canons shall be deployed at the railway sidings, if any, for control of fugitive dust emission.
- 15) More mobile fog canons shall be deployed at various dust generating activities of mine to bring down the ambient air quality within stipulated standard. This shall be done by 31.7.2021.
- 16) Provision of vertical greenery system shall be provided at the stockyards and railway siding by 31.12.2021.
- 17) Appropriate action shall be taken to enhance rake loading facility for coal transportation through rail.
- 18) All necessary precaution shall be taken to prevent fire in coal stack yards and coal seams. Necessary precautionary measures, inter alia, maintaining a minimum stock shall be taken to avoid fire hazards in the coal stack yard.
- 19) Ambient air quality measured at a distance of 500m from the dust generating sources {Loading or un-loading, haul road, coal transportation road, coal handling plant (CHP), Railway siding, Blasting, Drilling, overburden dumps or any other dust generating source like nearby roads etc.} in the down wind direction shall meet the following standards.

<u>Pollutant</u>	<u>Concentration in (microgramme/m³) (24 hourly)</u>
SPM	- 500
RPM	- 250
SO ₂	- 120
NO _x	- 120

In case any residential or commercial or industrial place falls within 500 metres of any generating sources, the National Ambient Air Quality Standards for industrial area notified shall be applicable.

- 20) Adequate Ambient Air Quality Monitoring Stations (at least 04 nos.) shall be established in core as well as in buffer zone at the locations as decided in consultation with the Regional Officer, State Pollution Control Board. Monitoring of parameters shall as SPM, PM₁₀, PM_{2.5}, SO₂ and NO_x shall be done.



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- 21) Monitoring of Ambient Air Quality of the mine shall be done once in a fortnight (24 hourly) and data shall be submitted to the State Pollution Control Board once in six months.
 - 22) Continuous real time ambient air quality monitoring stations shall be installed at appropriate locations keeping in view the criteria specified for coal mines in Environment (P) Rules, 1986/Standards specified in the consent order. Numbers of continuous online monitoring stations with data transfer facility to SPCB server shall be decided keeping in view the cumulative impact of all operating coal mines in Talcher area and in consultation with the Regional Officer, SPCB. The number of stations finalized for Talcher area shall be intimated to the Board in an area map with their co-ordinates.
 - 23) The top soil and overburden shall be removed separately and stored it in separate heaps, duly covered with grass and vegetation or utilized for backfilling of mined out area.
 - 24) Concurrent backfilling of mined out area shall be done. The backfilled area shall be technically and biologically reclaimed.
 - 25) Action shall be taken for removal of residual coal going along with overburden so that spontaneous fire in the dump site can be eliminated. Water sprinkling arrangements shall also be provided at the coal seam faces and active dump sites to control fire.
 - 26) The surface runoff generated from the mining area as well as railway siding during monsoon shall be diverted to adequate size of sedimentation pond or mine sump for storage and use. Systems shall be in place for collection and channelizing the surface runoff to the sedimentation pond/mine sump.
 - 27) Strata water generated during mining operation shall be diverted to the available sump for storage and use.
 - 28) No disposal of strata water & runoff to outside shall be allowed under any circumstances.
 - 29) Water from sedimentation pond or mine sump shall be used for sprinkling purposes on haulage roads and other dust generating areas, vehicle washing and plantation activities.
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- 30) Workshop from where water pollution due to wash out of oil and grease and suspended solids is expected, Effluent Treatment Plant (ETP) shall be operated at all the time and the quality of the treated wastewater shall remain within the following standards and shall be re-used for washing of vehicles:
- | | | |
|--------------|---|----------|
| pH | - | 6.5 -8.5 |
| TSS | - | 50 mg/l |
| Oil & grease | - | 10 mg/l |
| COD | - | 150 mg/l |
- No wastewater from workshop shall be allowed to be discharged to outside under any circumstances.
- 31) Domestic effluents shall be treated in a sewage treatment plant (STP) and or shall be discharged to soak pit via septic tank constructed as BIS specification. The treated wastewater quality of STP shall remain within the following standards and shall be used for plantation:
- | | | |
|----------------|---|-------------------|
| pH | - | 6.5 -9.0 |
| TSS | - | <100 mg/l |
| BOD | - | 30 mg/l |
| Fecal Coliform | - | <1000 MPN/100 ml. |
- 32) Acid mine drainage water if any, shall be treated adequately and used only for sprinkling activity.
- 33) Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells. The monitoring should be done four times a year in pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) seasons. Data thus collected should be submitted to the Board quarterly.
- 34) Adequate measures shall be taken for control of noise levels below the following limits.
- | | | |
|----------------------|---|--------------|
| (6.00 AM – 10.00 PM) | - | Leq 75 dB(A) |
| (10.00PM – 6.00 AM) | - | Leq 70 dB(A) |
- 35) Ambient air quality monitoring data, noise monitoring data and wastewater quality monitoring data shall be electronically displayed at the entry point of the mine or at a suitable location of the mine.
- 36) IP cameras shall be installed at major dust prone areas of the mine such as coal face, coal stockyards, coal haul roads, transportation roads, railway sidings, etc. and they shall be connected SPCB server.
- 37) The mine shall take action to increase the supply of drinking water in the peripheral villages.
-



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- 38) Plantation of trees shall be undertaken in the colony/ township, over top soil dumps, OB dumps, along the side of haul road and in other areas of the mines not being utilized for mining activities. The mine shall take up avenue plantation and plantation in nearby village areas in consultation with DFO/Horticulture Department. The plantation details shall be submitted to the Board by end of April every year.
- 39) The annual coal production status shall be submitted to the Board latest by 30th April every year.
- 40) The environmental statement report for the financial year ending 31st March shall be submitted to the Board in form-V on or before 30th September every year.

MEMBER SECRETARY
STATE POLLUTION CONTROL BOARD, ODISHA

To

**SRI S. K. CHOUDHURY, PROJECT OFFICER,
JAGANNATH COLLIERY OF M/S. MCL,
JAGANATH AREA, PO: SOUTH BALANDA,
DIST: ANGUL, PIN-759116.**

Memo No. _____ /Dt. _____ /

Copy forwarded to :

- i) Regional Officer, State Pollution Control Board, **Angul**.
- ii) District Collector, **Angul**
- iii) Director of Mines, Govt. of Odisha, Bhubaneswar
- iv) Director, Environment-cum-Special Secretary, F & E. Dept. Govt. of Odisha, Bhubaneswar.
- v) D.F.O, **Angul**
- vi) Deputy Director of Mines, **Talcher**
- vii) Chief Env. Engineer (Hazardous waste management cell)
- viii) Chief Env. Scientist, Central Lab. SPCB, Bhubaneswar
- ix) Consent Register

CHIEF ENV. ENGINEER(M)
STATE POLLUTION CONTROL BOARD, ODISHA



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**GENERAL STANDARDS FOR DISCHARGE OF
ENVIRONMENTAL POLLUTANTS**



CONSENT ORDER
JAGANNATH COLLIERY OF M/S. MCL

GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART -A : EFFLUENTS

SI.No.	Parameters	Standards			
		Inland surface	Public sewers	Land for irrigation	Marine Costal Areas
		(a)	(b)	(c)	(d)
1.	Colour&odour	Colourless/Odourless as far as practicable	-----	See 6 of Annex-1	See 6 of Annex-1
2.	Suspended Solids (mg/l)	100	600	200	For process wastewater – 100 b. For cooling water effluent 10% above total suspended matter of influent.
3.	Particular size of SS	Shall pass 850	-----	-----	
5.	pH value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6.	Temperature	Shall not exceed 5 ⁰ C above the receiving water temperature	-----	-----	Shall not exceed 5 ⁰ C above the receiving water temperature
7.	Oil & Grease mg/l max.	10	20	10	20
8.	Total residual chlorine	1.0	----	-----	1.0
9.	Ammonical nitrogen (as N) mg/l max.	50	50	-----	50
10.	Total Kajeldahl nitrogen (as NH ₃) mg/1 max.	100	----	-----	100
11.	Free ammonia (as NH ₃) mg/1 max.	5.0	----	-----	5.0
12.	Biochemical Oxygen Demand (5 days at (20 ⁰ C) mg/1 max.	30	350	100	100
13.	Chemical Oxygen Demand, mg/1 max.	250	----	-----	250
14.	Arsenic (as As) mg/1 max.	0.2	0.2	0.2	0.2
15.	Mercury (as Hg) mg/1 max.	0.01	0.01	-----	0.001
16.	Lead (as pb) mg/1 max.	01.	1.0	-----	2.0
17.	Cardmium (as Cd) mg/1 max.	2.0	1.0	-----	2.0



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18.	Hexavalent Chromium (as Cr + 6) mg/l max.	0.1	2.0	-----	1.0
19.	Total Chromium (as Cr) mg/l max.	2.0	2.0	-----	2.0
20.	Copper (as Cu) mg/l max.	3.0	3.0	-----	3.0
21.	Zinc (as Zn) mg/l max.	5.0	15	-----	15
22.	Selenium (as Sc) mg/l max.	0.05	0.05	-----	0.05
23.	Nickel (as Nil) mg/l max.	3.0	3.0	-----	5.0
24.	Cyanide (as CN) mg/l max.	0.2	2.0	0.2	0.02
25.	Fluoride (as F) mg/l max.	2.0	15	-----	15
26.	Dissolved Phosphates (as P) mg/l max.	5.0	-----	-----	-----
27.	Sulphide (as S) mg/l max.	2.0	-----	-----	5.0
28.	Phenolic compounds as (C ₆ H ₅ OH) mg/l max.	1.0	5.0	-----	5.0
29.	Radioactive materials a. Alpha emitter micro curle/ml. b. Beta emitter micro curle/ml.	10 ⁷ 10 ⁶	10 ⁷ 10 ⁶	10 ⁸ 10 ⁷	10 ⁷ 10 ⁶
30.	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent
31.	Manganese (as Mn)	2 mg/l	2 mg/l	-----	2 mg/l
32.	Iron (Fe)	3 mg/l	3 mg/l	-----	3 mg/l
33.	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-----	0.2 mg/l
34.	Nitrate Nitrogen	10 mg/l	-----	-----	20 mg/l



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NATIONAL AMBIENT AIR QUALITY STANDARDS

Sl. No.	Pollutants	Time Weighed Average	Concentrate of Ambient Air		
			Industrial Residential, Rural and other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement
(1)	(2)	(3)	(4)	(5)	(6)
1.	Sulphur Dioxide (SO ₂), µg/m ³	Annual * 24 Hours **	50 80	20 80	-Improved west and Gaeke - Ultraviolet fluorescence
2.	Nitrogen Dioxide (NO ₂), µg/m ³	Annual * 24 Hours **	40 80	30 80	- Modified Jacob &Hochheiser (Na-Arsenite) - Chemiluminescence
3.	Particulate Matter (size less than 10µm) or PM ₁₀ µg/m ³	Annual * 24 Hours **	60 100	60 100	-Gravimetric - TOEM - Beta Attenuation
4.	Particulate Matter (size less than 2.5µm) or PM _{2.5} µg/m ³	Annual * 24 Hours **	40 60	40 60	-Gravimetric - TOEM - Beta Attenuation
5.	Ozone (O ₃) µg/m ³	8 Hours ** 1 Hours **	100 180	100 180	- UV Photometric - Chemiluminescence - Chemical Method
6.	Lead (Pb) µg/m ³	Annual * 24 Hours **	0.50 1.0	0.50 1.0	-AAS/ICP method after sampling on EMP 2000 or equivalent filter paper. - ED-XRF using Teflon filter
7.	Carbon Monoxide (CO) mg/m ³	8 Hours ** 1 Hours **	02 04	02 04	- Non Dispersive Infra Red (NDIR) Spectroscopy
8.	Ammonia (NH ₃) µg/m ³	Annual* 24 Hours**	100 400	100 400	-Chemiluminescence - Indophenol Blue Method
9.	Benzene (C ₆ H ₆) µg/m ³	Annul *	05	05	-Gas Chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis
10.	Benzo (a) Pyrene (BaP)- Particulate phase only, ng/m ³	Annual*	01	01	-Solvent extraction followed by HPLC/GC analysis
11.	Arsenic (As), ng/m ³	Annual*	06	06	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12.	Nickel (Ni),ng/m ³	Annual*	20	20	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.



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OFFICE OF THE
STATE POLLUTION CONTROL BOARD, ODISHA

Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII,
Bhubaneswar - 751 012

No. 11986 /

IND-II-NOC - 6181

BY REGD POST
Date 04.10.2018 /

OFFICE MEMORANDUM

In consideration of the online application no. 2153272 for obtaining Consent to Establish for Jagannath Colliery of M/s Mahanadi Coalfields Ltd., the State Pollution Control Board is pleased to convey its Consent to Establish under section 25 of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 for enhancement of coal production capacity from 6.0 MTPA to 7.5 MTPA over an area of 578.426 ha. (involving increase in mine lease area from 430.736 ha. to 553.946 ha. as per land requirement breakup enclosed as Annexure- I), A/Po - Bolanda, Talcher in the district of Angul with the following conditions.

GENERAL CONDITIONS:

1. This Consent to establish is valid for the product, method of mining and capacity mentioned in the application form. This order is valid for five years. The proponent shall commence mining activities for the proposal within a period of five years from the date of issue of this Consent to Establish order. If the proponent fails to commence mining activities for the proposal within five years then a renewal of this consent to establish shall be sought by the proponent.
2. The mine shall apply for grant of Consent to operate under section 25/26 of Water(Prevention & Control of Pollution) Act, 1974 & Air (Prevention & Control of Pollution) Act, 1981 at least 3 (three) months before the commencement of production and obtain Consent to Operate from this Board.
3. This consent to establish is subject to statutory and other clearances from Govt. of Odisha and/or Govt. of India, as and when applicable.

SPECIAL CONDITIONS:

A. GENERAL CONDITIONS:

1. The proponent shall comply to the conditions imposed in Environmental Clearance issued vide letter No. J-11015/177/2005-IA.II(M), date 06.09.2018.
4. The mine should not store for more than seven days of coal production to avoid coal fire in stock yard as well as coal seam. The mine shall take adequate preventive measures for spontaneous fire in the coal seam as well as stock yard and an action plan regarding this shall be submitted at the time of consent to operate application.



5. The method of mining shall be opencast mining by shovel-dumper in overburden and surface miner, loader and tipper in coal. No change in mining technology and scope of working shall be made without prior approval of the Board.
6. A green belt of adequate width and density preferably with local species along the periphery of the mine, inactive dumps, backfilled area, vacant area and any other vacant area shall be raised so as to provide protection against particulates and noise to ameliorate the environment. A detailed plantation programme in this regard shall be prepared and submitted at the time of making application for consent to operate for assessment.
7. Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment.
8. Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.
9. A Separate environmental management cell with suitable qualified personnel should be set up under the control of a senior Executive, who will report directly to the Head of the Organization.
10. The Board may impose further condition or modify the conditions stipulated in this order during installation, and / or at the time of obtaining consent to operate and may revoke this clearance in case the stipulated conditions are not implemented and / or any information suppressed in the application form.
11. The conditions as stipulated in this consent to establish order will be enforced, inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 the Air (Prevention & Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
12. The proponent shall use fly ash bricks and other building materials made out of fly ash for construction of township.
13. The proponent shall install solar powered lighting and heating system whenever possible in township.

B. WATER POLLUTION:

14. The mine shall construct settling tanks in series to settle the suspended solids in the surface run-off water.
15. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the hourly peak rain fall and maximum discharge in the area adjoining the mine site. Sump capacity should have adequate retention period to allow proper settling of silt material.
16. Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data. The detail specification shall be worked out and submitted to the Board.



- 17. Catch drains of appropriate size should be constructed to divert the run off from the OB dump to the siltation pond of appropriate size to arrest silt and sediment flows from soil, OB and mineral dumps. Similar arrangement shall be done around the coal stack pile area. The drains should be regularly desilted and maintained properly. Surface run-off from OB dump area, coal pile area, top soil storage area shall be routed through adequate settling pond (designed maximum hourly rain fall basis) to meet prescribed standard of SS-100 mg/l and Oil & Grease-10 mg/l before discharge into natural stream/water courses during monsoon.
- 18. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells. The monitoring should be done four times a year in pre-monsoon (April/May), monsoon (August), Post – monsoon (November) and winter (January) seasons. Data thus collected should be submitted to the Board quarterly.
- 19. The domestic wastewater generated shall be treated in Sewage Treatment Plant of capacity 1.0 MLD to meet the following standards as notified by the MoEF&CC, Govt. of India vide G.S.R. 1265 (E), dated 13.10.2017. The treated water shall be reused for flushing, gardening and plantation to the maximum possible extent.

Sl. No.	Parameters	Standards
1.	pH	6.5-9.0
2.	BOD(mg/l)	30
3.	TSS(mg/l)	<100
4.	Fecal Coliform (MPN/100ml)	< 1000

- 20. Oil and grease trap shall be installed before discharge of effluent from workshop. Wastewater from the mine pit, check dams or any other discharge leaving lease boundary of the mine should be properly collected, treated so as to conform the following standard i.e. pH = 5.5 – 9.0, SS = 100 mg/l, COD = 250 mg/l & Oil & Grease = 10 mg/l.
- 21. Rain water harvesting practice shall be followed by utilizing the rain water collected from the roof of the buildings for recharging of ground water within the premises and other large structures as per the concept and practices prescribed by CPCB, New Delhi and details of which is available in the web site.

C. AIR POLLUTION:

- 22. Transportation road shall be black topped / concreted.
- 23. Transportation of coal from the face to pit top shall be undertaken by tippers/ dumpers, surface to TTPS by closed conveyors, surface to sidings by tippers and siding to loading by pay loaders.
- 24. High efficiency bag filters shall be installed at crushers of the Coal Handling Plant. Water sprinkling systems shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points etc. Provision of movable chutes shall be made during loading at CHP to avoid free fall of coal.



25. The mine shall provide dust extractor in drill machines, Fixed sprinkler at CHP, railway siding etc., Mobile water tanker for quarry, haul road, transport road, CHP, etc.
26. The mine shall develop wind barrier wall of 10 meters height all around the coal stack yard to control fugitive coal dust emission.
27. The mine shall provide newly introduced system i.e. Fog Cannon for dust suppression.
28. Water sprinkling shall be carried out on unplanted surface of OB dump to control fugitive emission.
29. Drilling shall be avoided to the maximum possible extent. However, drill should be wet operated or with dust extractors and controlled blasting should be practiced.
30. The mine shall provide water or water mixed chemicals for dust suppression at all strategic points such as coal stack yards, loading and unloading points, all transfer points, conveyors etc. to suppress dust fine atomizer nozzles arrangement shall be provided on the coal heaps and on land around the crusher / pulverizes. As far as possible conveyors and transfer points etc. shall be provided with enclosures.
31. Four (4) ambient air quality monitoring stations for 24 hours operation should be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.
32. Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) shall be regularly submitted to the State Pollution Control Board once in six months.
33. The mine shall comply the following standard at the loading or unloading, haul road, coal transportation road, coal handling plant (CHP), railway siding, blasting, drilling, overburden dumps or any other dust generating external sources as per the Rule 2(1) of the Environmental Amendment Rules, 2000 notified vide notification G.S.R. 742 (E), dated 25.09.2000.

Pollutant	Time weighted average	Concentration in Ambient Air	Method of Measurement
1	2	3	4
SPM	Annual Average* 24 hours**	360µg/m ³ 500µg/m ³	High volume sampling (Average flow rate not less than 1.1 m ³ /min)
RPM(size less than 10 µm)	Annual Average* 24 hours**	180µg/m ³ 250µg/m ³	Respirable Particulate matter sampling and analysis
SO ₂	Annual Average* 24 hours**	80µg/m ³ 120µg/m ³	Improved west and Gaeke method Ultraviolet fluorescense
NO ₂	Annual Average* 24 hours**	80µg/m ³ 120µg/m ³	Jacob & Hochheiser Modified (Na-Arsenic) Method Gas phase Chemiluminescence



(*Annual Arithmetic mean for the measurements taken in a year, following the guidelines for frequency of sampling laid down in clause-2.

**24 hourly/ 8 hourly values shall be met 92% of the time in a year. However, 80% of the time may exceed but not on two consecutive days.)

34. The haul roads and arterial roads shall be made black topped / concrete with avenue plantation.

D. SOLID WASTE:

35. The proponent shall mix the fly ash generated by nearby thermal power plant with OB for back filling of the mine void as per fly ash notification of MoEF&CC, Govt. of India.
36. Intermediate storage area for Municipal Solid Waste (MSW) shall be developed inside the premises of township before handing over the MSW to the concerned ULBs for final disposal.
37. The proponent shall segregate organic waste from the MSW of township and segregated organic waste shall be converted to manure through organic waste converter. The proponent shall store the organic waste in closed shed inside the township before use the same in organic waste converter.
38. All required sanitary and hygienic measures should be in place before starting construction activities of township and to be maintained throughout the construction phase.
39. All the top soil excavated during construction activities of township should be stored for use in horticulture / landscape development within the project site.
40. Disposal of muck during construction phase of township should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
41. The proponent shall comply the provisions of Construction & Demolition Waste Management Rules, 2016.
42. Construction spoils of township, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.
43. The Hazardous Wastes generated from the mine shall be stored on concrete floor under covered shed
44. The Project proponent shall dispose off hazardous waste materials such as tarry products, lead containing products, paints & pigments residues, broken fluorescent and mercury lamps during construction and operational phase as per Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 as amended from time to time.
45. Municipal solid waste generated from the township shall be disposed off as per Solid Waste Management Rules, 2016.



46. Top soil of mining area shall be stacked separately with proper slope at earmarked site (s) with adequate measures and shall be used for reclamation and rehabilitation of mined out areas.
47. Back filling of abandoned pit shall be carried out as per approved mining plan. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status in this regard shall be submitted to the Board on yearly basis. The mine shall explore the possibility for back filling of mine voids by fly ash generation from nearby thermal power plant.

H 31/18
MEMBER SECRETARY

To,

The Project Officer,
Jagannath Colliery of M/s MCL,
At – Jagannath Area, P.O.-South Balanda,
Dist. - Angul, Odisha.

Memo No. 11987 /Dt. 04.10.2018 /

Copy forwarded to:

1. The Secretary Steels & Mines, Govt. of Odisha, Bhubaneswar
2. The Collector & District Magistrate, **Angul**.
3. The Director, Directorate of Mines, Govt. of Odisha, Bhubaneswar
4. The Regional Officer, SPC Board, **Angul**.
5. The DFO, **Angul**.
6. Copy to HSM Cell, SPC Board, Bhubaneswar
7. Consent to Operate Section, SPC Board, Bhubaneswar.
8. Copy to Guard file


CHIEF ENV. ENGINEER

r/c

**Land Requirement Break-up (in Ha.) for Jagannath Colliery of
M/s Mahanadi Coalfields Ltd.**

Sl. No.	Particulars	Existing (ha.)		Additional (ha.)			Grand Total (ha.)
		Forest	Non-forest	Total (ha.)	Forest	Non-forest (Govt. and Tenancy)	
A	Break up of mining lease area						
1.	Quarry excavation	80.206	273.310	353.516	2.53	120.68	476.726
2.	External dumps (in old Jagannath OCM only)	0.000	36.470	36.470	0.000	0.000	36.470
3.	Infrastructure like workshop, store, CHP and land between infrastructure (In old Jagannath OCM)	0.000	40.750	40.750	0.000	0.000	40.750
	Sub-total (A) (Mining lease area)	80.206	350.530	430.736	2.53	120.680	553.946
B	Break-up of area outside mining lease area in ha.						
1.	Land for Rehabilitation colony	0.000	11.270	11.270	0.000	13.210	24.480
	Sub-total (B)	0.000	11.270	11.270	0.000	13.210	24.480
	Grand Total (A+B)	80.206	361.800	442.006	2.53	133.890	578.426



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/s Jagannath Colliery		
Project Address:	M/s Jagannath Colliery, South Balanda		
Town:	Talcher	Block:	Talcher
District:	Anugul	State:	Odisha
Pin Code:	759116		
Communication Address:	M/s Jagannath Colliery, Talcher, Anugul, Odisha - 759116		
Address of CGWB Regional Office :	Central Ground Water Board South Eastern Region, Bhujal Bhawan, Khandagiri Square, NH-5, Bhubaneshwar, Odisha - 750001		

1. NOC No.:	CGWA/NOC/MIN/ORIG/2020/7354									
2. Application No.:	21-4/1902/OR/MIN/2018	3. Category:	Mining							
4. Project Status:	Existing Project	5. NOC Type:	New							
6. Valid from:	31/01/2020	7. Valid up to:	30/01/2022							
8. Ground Water Abstraction Permitted:										
Fresh Water		Saline Water		Dewatering		Total				
m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year			
				1924.70	702260.00	1924.70	702260.00			
9. Details of ground water abstraction /Dewatering structures				Total Proposed No.:0						
Total Existing No.:3			Total Proposed No.:0							
	DW	DCB	BW	TW	MP	DW	DCB	BW	TW	MP
Abstraction Structure*	0	0	0	0	3	0	0	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit										
10. Quantum of ground water recharge/harvesting(m ³ /year):				927876.00						
11. Number of Piezometers (Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers		Monitoring Mechanism							
			Manual	DWLR**	DWLR With Telemetry					
**DWLR - Digital Water Level Recorder	2		0	1	1					

(Compliance Conditions given overleaf)

Digitally signed by
NANDAKUMARAN P
Date: 2020.02.05 18:16:51 +05'30'

सदस्य (केन्द्रीय भूमि जल प्राधिकरण)
Member (CGWA)

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

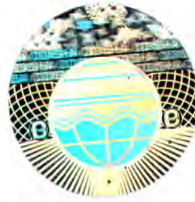
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following mandatory conditions:

1. No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
2. The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
3. All new as well as existing ground water abstraction/ de-watering structures shall be fitted with digital water flow meters by the firm at its own cost immediately on completion of their construction or grant of NOC as the case may be. In case of renewal of NOCs, all existing ground water abstraction structures shall continue to be fitted with digital water flow meters. Intimation of installation of flow meters shall be sent by the proponent to the Regional Director of CGWB within 6 months of grant of NOC. Daily ground water abstraction data shall be monitored / continue to be monitored (in case of renewal) by the firm and recorded in a log book. Details of month-wise ground water abstraction shall be submitted to the Regional Director, CGWB, once every year.
4. In case the ground water abstraction is more than 10 m³/day, monthly water level monitoring data shall be maintained and submitted annually to the Regional Office of CGWB. Wherever groundwater withdrawal is more than 500 m³/day, the firm shall install telemetry system in one of the piezometers and share USER ID and password of the telemetry system with the Regional Director, CGWB.
5. In case ground water abstraction is more than 10 m³/day, ground water quality shall be monitored once in a year (during pre- monsoon period) and the report submitted to the Regional Office, CGWB. Wherever the extraction is less than 10 m³/day, ground water quality report shall be submitted by the proponent at the time of submission of self-compliance report.
6. Ground water augmentation/harvesting measures, as stipulated in the NOC, shall be implemented (in new cases) / continue to be maintained (in case of renewal) in consultation with the concerned Regional Director, CGWB.
7. Proof of recharge/water harvesting structures constructed (photographs of structures) shall be submitted to the concerned Regional Director, CGWB within 6 months from the date of issue of NOC. The firm shall also undertake periodic maintenance of recharge/water harvesting structures at its own cost.
8. The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
9. In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
10. The firm shall optimize water use through recycling/ reuse of waste water after proper treatment.
11. Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
12. In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
13. Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
14. The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
15. This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.
16. This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
17. The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
18. This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
19. Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment(Protection)Act, 1986.
20. **In case of any violation of NOC conditions or illegal extraction of Ground water the firm shall be liable to pay "Environmental Compensation"/ "Penalty", if any under Sec 15 of EPA 1986 as and when decided by statutory authorities.**

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)



Tel : 2564033/2563924
EPABX : 2561909/2562847
E-mail: hwmd@ospcboard.org /
paribesh1@ospcboard.org
Website: www.ospcboard.org

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII
Bhubaneswar - 751012, INDIA

BY SPEED POST

FORM 2

[See rule 6(2)]

RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROL BOARD, ODISHA TO THE OCCUPIER UNDER HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES, 2016

1. Number of authorization: **IND-IV-HW-225/ 4923** and date of issue: **24-03-2021**
2. Reference of application (No. and date): **2407062, dtd. 15-03-2019 / 08-03-2021.**
3. **Jagannath Colliery of M/s Mahanadi Coalfields Limited** is hereby granted an authorization based on the enclosed signed inspection report for generation, storage, transport, reuse, utilization, disposal or any other use of hazardous or other wastes or both in the premises situated **At - Jagannath Area, Po - South Balanda, Dist - Angul, Odisha - 759116.**

Details of Authorization

Sl. No.	Category of Hazardous Waste as per the Schedules I, II and III of these Rules	Waste Description	Quantity	Mode of Disposal
1.	Schedules - I Stream - 5.1	Used / Spent Oil	18.4 T/A	Storage in containers over impervious floor under well ventilated covered shed followed by disposal through actual users having valid authorization from SPCB, Odisha
2.	Schedules - I Stream - 35.4	Oil and Grease Skimming Residues	14 T/A	Storage in impervious pits / containers under well ventilated covered shed followed by sale to actual users / Authorized HW incinerator / Common Hazardous Waste Treatment Storage Disposal Facility (CHWTSDF), Jajpur / Co-processing in Cement Kiln authorized by SPCB, Odisha

Sl. No.	Category of Hazardous Waste as per the Schedules I, II and III of these Rules	Waste Description	Quantity	Mode of Disposal
3.	Schedules - I Stream - 3.3	Filters and Filter Material Contaminated with oil	0.31 T/A	Storage in impervious pits / containers over concrete floor under well ventilated covered shed followed by disposal in the Authorized HW incinerator / Co-processing in Cement Kiln authorized by SPCB, Odisha / CHWTSDF, Jajpur

- (1) The authorization shall be valid up to 31-03-2022 .
- (2) The authorization is subject to the following general and specific conditions.

A. General Conditions of authorisation:

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorisation.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire, etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty". Any accident in this respect shall be intimated to the Board immediately.
7. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
8. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
9. An application for the renewal of an authorisation shall be made as laid down under these Rules.

10. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
11. Annual return shall be filed by 30th day of June of every year for the preceding period from April to March.

B. Specific Conditions:

1. Authorization granted herewith does not relieve you in complying with other provision laid down under Water (PCP) Act, 1974, Air (PCP) Act, 1981 and Environment (Protection) Act, 1986, and the Rules made there under.
2. This authorization is subject to statutory and other clearances from Govt. of Odisha and / or Govt. of India as and when applicable.
3. In case the quantity of generation of hazardous Waste exceeds the Authorized quantity, the industry / mine shall apply for amendment of Authorization order.
4. The industry / mine shall strictly comply to the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and amendments made thereafter.
5. Annual returns in Form - 4 (See Rules- 6 (5), 13 (8), 16 (6) & 20 (2)) shall be submitted to the Board for the financial year by 30th June of every year. It shall contain the detail quantities of generation, storage and disposal of different type of hazardous wastes such as recyclable, incinerable, land disposable.
6. Steps shall be taken for reduction and prevention of the hazardous waste generated or for recycling or reuse.
7. Environmental Information with respect to Air, Water, Hazardous Waste and Hazardous Chemicals shall be displayed at the main gate for public view.
8. The transport of the hazardous and other waste shall be in accordance with the provisions of the Rule, 2016 and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard.
9. The occupier shall provide the transporter with the relevant information in **Form 9**, regarding the hazardous nature of the wastes and measures to be taken in case of an emergency and shall label the hazardous and other wastes containers as per **Form 8**.

10. In case of transportation of hazardous waste and other wastes for recycling or utilization including co-processing to outside the state, the sender shall intimate both the State Pollution Control Boards before handing over the waste to the transporter.
11. Manifest system (Movement document) shall be strictly followed as per Rule-19 and to be submitted to this office as per the Rule. The industry / mine shall check the authenticity of the way bill of the transport vehicle to ensure supply of hazardous waste to the authorized destination.
12. The hazardous waste shall be sold if required only to Actual User having valid authorization from the State Pollution Control Board, Odisha and concerned SPC Board. Details of such wastes shall be entered in the passbook issued by respective SPCB.
13. All the hazardous waste shall be stored in impervious pits / containers / floors under cover shed with adequate capacity having spill containment facility. The spilled hazardous waste shall be re-collected and stored in impervious pits / containers / floors under cover shed prior to sale / disposal.
14. The schedule of hazardous waste and the quantity as specified shall only be disposed off as per the stipulation prescribed in this authorisation.
15. This authorization does not permit you to either receive and process or generate hazardous waste in case validity of Consent to Operate of your industry / mine ceases. However you can carry out handling, storage, treatment, transport and disposal of hazardous waste and other wastes generated previously during such period to avoid accumulation of hazardous waste.
16. The industry / mine shall store the accumulated hazardous waste for a period not exceeding 90 days and shall dispose as per the stipulation prescribed in this authorisation order. In case of any violation, authorization granted shall be suspended / cancelled.
17. The industry / mine shall apply for renewal of authorization in Form - 1, 120 days before expiry of this authorization order enclosing Annual Return in Form - 4, Manifest copies in Form - 10 and compliance to the conditions stipulated in this order along with adequate processing fees.
18. In case of transportation of hazardous and other waste, the responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and has the necessary authorisation for transport from the concerned State Pollution Control Board. This responsibility should be clearly indicated in the manifest.
19. Hazardous Wastes having calorific value of more than 2500 Kcal/Kg shall not be landfilled. It can only be disposed through authorized actual users or incinerated in authorized Hazardous Waste incinerator or co-processing in authorized cement kiln.

C. Additional Conditions :

1. This authorization does not permit you to either receive and process or generate Hazardous Wastes in case validity of CTO ceases.


Member Secretary

To

**The Project Officer
Jagannath Colliery of M/s Mahanadi Coalfields Limited
At - Jagannath Area, Po - South Balanda,
Dist - Angul, Odisha - 759116**



Memo No. 4924
Copy to the :

Dt. 24-03-2021

1. Collector & District Magistrate, **Angul**.
2. Director, Factories & Boilers, Odisha, **Bhubaneswar**.
3. Regional Officer, State Pollution Control Board, Odisha, **Angul**.
4. Guard file.


Chief Environmental Engineer

O/C

MONSOON PREPARATION PLAN
2020-2021

JAGANNATH COLLIERY
JAGANNATH AREA, MCL

MONSOON PREPARATION FOR THE YEAR, 2020-21,
JAGANNATH COLLIERY.

1. Name of the mine:	Jagannath Colliery.
2. Name of the Area:	Jagannath Area.
3. Total Catchments Area of the mine:	38,02,008 M²
	a) Central sump - 11, 43, 000 Sqm b) West sump - 9, 96, 000 Sqm c) Coal face sump- 110,000 Sqm
4. Sump Capacity (in Cum)	a) Central sump - 68,97,000 Cum. i) Already filled with water-62,40,000 Cum ii) Present balance capacity- 6,57,000 Cum. iii) Maximum rainfall may accumulate in the sump- 2500 mm iv) Water in flow in Cum considering 200 mm rainfall in a day - 22,8,600 Cum. b) West sump - 1,37,50,176 Cum. i) Already filled with water-134,70,000 Cum ii) Present balance capacity- 2,80,176 Cum. iii) Maximum rainfall may accumulate in the sump- 780 mm iv) Water in flow in Cum considering 88 mm rainfall in a day-1,99,200 Cum c) coal face sump- 7,46,250 Cum i) Already filled with water-6,70,250 Cum ii) Present balance capacity-76,250 Cum. iii) Maximum rainfall may accumulate in the sump- 1320 mm iv) Water in flow in Cum considering 200 mm rainfall in a day-22,000 Cum
5. Max. Rainfall in "mm" in a day during last 05 years:	200 mm. on 12.10.2013.
6. Total accumulation of water in the sump: -	i. Central sump : 25,1,460 Cum. in a day considering 220 mm. of max. Rainfall ii. West sump : 2,19,120 Cum. and 10% seepage from strata iii. Coal Face sump : 24,200 Cum.
7. Existing Pumping capacity: -	i. Central sump- 200 LPS ii. West sump - 200 LPS iii. Coal Face sump- 660 LPS
8. No of pumps available in Unit/Mine: -	10 Nos
9. No of floating pumps in operation: -	07 Nos

DETAILS OF PUMP.

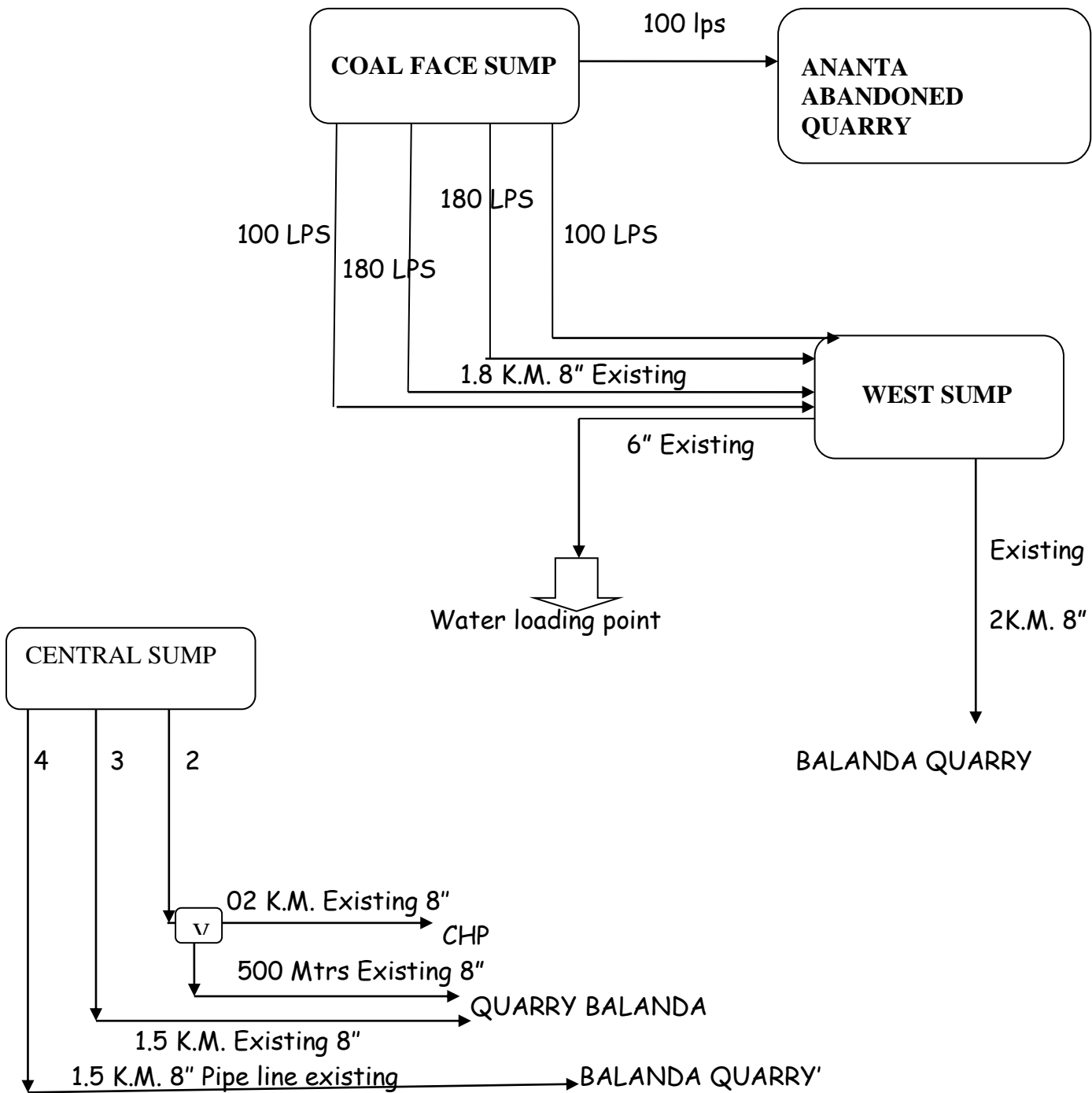
Sl. No	Location of Pump.	Total no. of Pump in operation.(Sump wise details)	Details of Pumps Make, Type, Capacity, Head, HP/KW, Voltage, Dia. of Suction & Delivery pipe line etc.	Additional pump require (With quantity & detail specification.)	Justification/Remarks.
1.	coal face sump	05 Nos. Pump Installed.	1. 02 nos. M&P DST- 150/200, Head- 120 Mtrs., Discharge-200 LPS 2. 02 nos. M&P DST- 200/250, Head- 150 Mtrs., Discharge-360 LPS 3. 01 Kiloskar 8UP4,, Head- 120 mtrs. Discharge-100 LPS (1350 GPM).		For dewatering of rain water from out sourcing coal face sump to Rakash Bahal Village and West Sump.
2.	West sump	02 nos. pumps Installed.	1. 01 no. Kiloskar 6UP4, Head- 65 mtrs. Discharge-100 LPS (1350 GPM). Water loading point . 2. 01 no. M&P,SCT 150/48.2, Head- 120 Mtrs. Discharge-150 LPS (2000GPM).		
3.	Central Sump	03 nos. pumps Already installed.	1. 01 no. M&P DST- 150/200, Head- 120 Mtrs., Discharge-100 LPS. 2. 01 no. M&P DST- 150/200, Head- 120 Mtrs., Discharge-100 LPS. 3. 01 no. Kiloskar 6UP4, Head- 65 mtrs. Discharge-100 LPS (1350 GPM).		To deliver water to the CHP.

PUMP DETAILS:-

Sl.No	Location of Sump.	No of pumps Installed.		Pump Capacities.		No of hours in operation.
		Normal season	Rainy season	Normal season	Rainy season	
1.	Central Sump.	02	02+01 (Proposed)	300 LPS	390 LPS + 300 LPS	15 Hrs. during normal seasons & 18 Hrs. during rainy season.
2.	West Sump	01 + 01 (one no. is for water loading.)	02 + 01	120 LPS + 150 LPS(Water loading)	220 LPS + 150 LPS(Water loading)	15 Hrs. during normal seasons & 18 Hrs. during rainy season.
3.	Coal Face	05	05	660 LPS	660 LPS	20 Hrs. during rainy season.

DETAILS OF PUMPING:-

Sl. No	Name of the sump	Quantity/Hr. considering 18 hr. pumping.	Pumping capacity installed.	No of Main pumps in operation during rainy season.	Sump capacity
1.	West sump:-	21646.4 cum	120 + 100 LPS	02 + 01 (To be installed)	1,37,50,176 cum.
2.	Central sump:-	22608.5 cum	200 LPS	02 + 01 (To be installed)	68,97,000 cum.
3.	Coal face sump	6493.9 cum	660 LPS	06	7,46,250 Cum



MONSOON ACTIVITIES:-

Haul road & CT road.

Work Name	Total Length existing	Repairing regd. In length.	Estimate Date	Work Order Date	Commencement date	Completion date
Haul road (internal)	500 mtrs.		09.01.2020, PO/JNC/Civil/19-20/02			
CT Road	6.23 KM		12.06.2018, PO/JNC/Civil/2018/157	MCL/SAMB/Civil/E-Tender/AOC/19-20/428, 07.06.19	27.07.2019	1.05.2020

Garland Drain

Existing	Required	New	Remark
-----	-----	-----	Natural Slope of the ground level of top OB is dipping towards Bangaro Nallah.

Sl. No	Activity.	Present status.	Requirement	Commencement Date	Completion date	Responsibility.
1.	Preparation of Sump	<p>There are 03 permanent sumps beyond working areas namely east sump, central sump, & west sump. The above sumps are dealing the monsoon water of catchment area. No further permanent sump is required.</p> <p>There are 03 mine sumps. Presently 05 nos. of pumps are installed and in operation to dewater the accumulated water. No further sump preparation is required.</p> <p>East 01 Central 03 West 02 Mine sump = 05</p>	N.A.	---		
2.	Repairing of pontoons	Out of 10 nos. 07 have been installed on pontoon and 03 nos. on surface (wooden slipper)	1. 03 nos. pontoon required. Proposal has been initiated already (vide no- PO/JNC/E&M/	20.02.20	05.03.20	i. PE (E&M) ii. S.O.

			SS/177, Dtd.04.01.20 2. Drum collection			(E&M),J A.
3.	Installation of pumps at different sump as per requirement.	10 nos. of pumps already installed in different sumps	Addition 02 nos. pumps have to be installed.	31.01.20 15.02.20	03.02.20 20.02.20	PE (E&M)
4.	Laying / extension of delivery pipe.	About 10 KMs pipe line existing	i. 2 KMs. (New pipe) 8" dia. ii. 500 Mtrs. (New pipe) 8" dia.	As & where require.	Before 31 st March	i. Supply HQ. ii. Distribution & laying :- PE (E&M).
5.	Construction/ extension of overhead line	—	i. Shifting of over headline 3.3 KV. Pump feeder. ii. maintenance of 11KV. OH line main feeder. iii. Trimming of trees.	20.03.20 30.04.20 30.04.20	31.03.20 15.05.20 15.05.20	PE (E&M) PE (E&M)
6.	Electrical maintenance / repair of switch gears, transformers & Sub-Stations.	All are in use	i. Three nos. field switch. ii. Three nos. of starters.	01.03.20 01.03.20	31.03.20 31.03.20	PE (E&M)
7.	General Lighting	Not sufficient as per lighting standard.	i. 250 WT- 50 nos. ii. 400 WT- 100 nos.	Continuous process		i. S.O. (E&M),J A ii. PE (E&M)
8.	a. Sub Station Maintenance i. Relay Test ii. NGR Test iii. Gang Switch Maintenance iv. Interlocking test v. Transformer oil dielectric test vi. Earth Pit test vii. VCB/OCB test b. OH line checking i. Running earth line checking ii. Lighting arrester iii. OH insulation checking	i. Done on 19.03.2019 ii. Not working iii. Gang switches are in operation iv. Done on Dec-2019 v. Done on 29.07.2018 vi. Checked in every quarter vii. Testing done as and when required i. As and when required ii. 15 sets iii. As and when required	02 Nos Nil 05 sets		01.05.20-31.05.20 01.05.20-31.05.20 -do- 01.05.20-15.05.20 01.05.20-15.05.20 01.05.20-15.05.20 -do- -do-	PE (E&M)
9.	Construction / repair of pump shed	04 nos. of shed already provided	Two more to be constructed	15.03.20	31.3.20	Safety Officer.
10.	Top soil removal	Going on	—	—	—	—
11.	Repairing / construction of haul road in the mine area.	Regular process	To be done as per requirement.	Before monsoon		OB In-charge
12.	Cleaning of drain from welcome Gate to Kali Mandir junction.	Estimate to be pressed in March/ April 2020	During rainy day 1x(650+350)x0.60	Before 30 th Septem		PE (Civil),J NC.

				ber 2020		
13.	Cleaning of drain from Traffic chowk to Railway Siding- I	Estimate to be pressed in March/ April 2020	1x680x1.00	Before 30 th September 2020		PE (Civil)
14.	Cleaning of drain from HEMM Workshop gate to ROB along Pilot Quarry and from coal stock near CHP to Culvert near Light Vehicle Garage.	Estimate to be pressed in March/ April 2020	1x1100x1.00	Before 30 th September 2020		PE (Civil)
15.	Cleaning of drain from ETP to Culvert near F/C stock and disposal of slush in haul road & CT road in mine premises during monsoon	Estimate to be pressed in March/ April 2020	1x850x1.00	Before 30 th September 2020		PE (Civil)
16.	Cleaning of drain from Balanda old conveyor and in front of Dhaba and approach to Project Office, JNC	Estimate to be pressed in March/ April 2020	1x700x1100	Before 30 th September 2020		PE (Civil)
17.	Cleaning of drain from east sump to sedimentation Pond (MDTP)	Estimate to be pressed in March/ April 2020	1x650x1.00	Before 30 th September 2020		PE (Civil)
18.	Cleaning of drain from PCTPL Garage to L/V Junction.	Estimate to be pressed in March/ April 2020	1x650x1.00	Before 30 th September 2020		PE (Civil)
19.	Earthwork by mechanical means	Estimate to be pressed in March/ April 2020	3.2x12.00x1.00	Before 30 th September 2020		PE (Civil)
20.	Cleaning of Hume pipe culverts	Estimate to be pressed in March/ April 2020	During rainy day	Before 30 th September 2020		PE (Civil)
21.	Construction of temporary C.T. Road inside mine for seam -II (500 mtrs)	Estimate under presses.	15 th Jan 2020	Before 30 th June 2020		PE (Civil), JNC, SO(Civil), JA
22.	Indent of procurement of Hume pipes for culvers in mines at Jagannath Colliery, Jagannath Area.	Indent under presses.	1200mm - 30 pcs 900mm - 30 pcs 600mm - 20pcs	Before 30 th June 2020		SO(MM), JA.

CIVIL WORK TO BE DONE

<u>Sl.No.</u>	<u>Name of work</u>	<u>Approx. amount in lakhs</u>
1.	Cleaning of drain from welcome Gate to Kali Mandir junction.	1.42
2.	Cleaning of drain from Traffic chowk to Railway Siding- I	1.87
3.	Cleaning of drain from HEMM Workshop gate to ROB along Pilot Quarry and from coal stock near CHP to Culvert near Light Vehicle Garage.	1.95
4.	Cleaning of drain from ETP to Culvert near F/C stock and disposal of slush in haul road & CT road in mine premises during monsoon	1.48
5.	Cleaning of drain from Balanda old conveyer and in front of Dhaba and approach to Project Office, JNC	1.93
6.	Cleaning of drain from east sump to sedimentation Pond (MDTP)	1.50
7.	Cleaning of drain from PCTPL Garage to L/V Junction.	1.85
8.	Earthwork by mechanical means	19.00
9.	Cleaning of Hume pipe culverts	1.90
10.	Construction of temporary C.T. Road inside mine for seam -II (500 mtrs)	84.00
		Total= 116.90


HELP REQUIRED

Sl. No	Description	Quantity require	Present Status	Responsibility
1.	a) Rotating assembly of DST 150/200 pump. b) Rotating assembly of SCT 150/48.2 pump. c) Rotating assembly of 8UP4-200/250. d) EST 200/250	02 no. 01 no. 01 no. 02 no.	To be indented	Project Engineer (E&M)
2.	MS Pipe 8"(200mm) dia	2 KMs.		
3.	MS Pipe 6" (150mm)dia	1.0 KM.		
4.	Jetting Hose 6"x6mtrs.	06 nos.		
5.	Jetting Hose 8"x3mtrs.	08 nos.		
6.	MS Flange 8"	600 nos.		
7.	MS Flange 6"	700 nos.		
8.	MS Flange 10"	40 nos.		
9.	MS Flange 4"	100 nos.		
10.	MS Bend 10"	06 nos.		
11.	MS Bend 8"	10 nos.		
12.	MS Bend 6"	04 nos.		
13.	Sluice Valve (Heavy Duty)8"	12 nos.		
14.	Sluice Valve(Heavy Duty)6"	12 nos.		
15.	Non Return Valve (Heavy Duty)8"	08 nos.		
16.	Non Return Valve (Heavy Duty)6"	10 nos.		
17.	Foot Valve 10"	10 nos.		
18.	Foot Valve 8"	08 nos.		
19.	Drums	400 nos.		
20.	M. S. nuts & bolts	700 Kg		
21.	Dog conductor 125 sq.m	02 Km. + 02 KM.		SO (E&M)/ Project Engineer (E&M)
22.	Squirrel conductor 22 sq.m	05 Km + 01 KM.		
23.	PVC armoured copper cable 3.3. KV grade 3 core 70 sq.mm/50 sq. mm	600 mtrs.		
24.	PVC armoured copper cable 3.3. KV grade 3 core 50 sq.mm	400 mtrs.		
25.	XIpe armoured copper cable 11 KV grade 3 core 70 sq.mm.	200 mtrs.		
26.	PVC armoured aluminium cable	200 mtrs.		

	1.1 KV grade 3 & 1/2 core 240 sq.mm			
27.	HT tubular 12 Mt.	60 nos.		
28.	Tubular 8mt-10mt	60 nos		

1. Working Mine Plan showing location of Pump and delivery range, haul roads, CT Road, Power supply line etc.:- Enclosed
2. Line diagram of Pumps, delivery range with sump capacity: Submitted in a separate page.
3. 2 K.M. 8" dia pipe line required for new pipe line lying as well as repairing work.
4. 1 K.M. 6" dia pipes required for new range of pipe line from coal face to Rakash Bahal village .

Project Manager, Project Engr.(E&M), P.E. (Civil), Safety Officer, Asst. Mgr(Survey.)
JNC. JNC. JNC. JNC. JNC.

MAHANADI COALFIELDS LIMITED महानदी कोलफील्ड्स लिमिटेड ମହାନଦୀ କୋଲ ଫିଲ୍ଡସ୍ ଲିମିଟେଡ	OFFICE OF THE PROJECT OFFICER JAGANNATH COLLIERY PO: BALANDA, DIST: ANGUL, ODISHA-759116 Tel: 06760-260212, 260458, 260321 email: jagannathcolliery@gmail.com AN ISO 9001:2008 & 14001:2004 CERTIFIED PROJECT	
--	--	--

Ref.No. PO/JNC/Safety/Monsoon/2020/

Date. .01. 2020.

To
The Area Safety Officer,
Jagannath Area.

Sub: - Monsoon preparation for the year 2020-21.

Dear Sir,

Enclosed please find herewith the detail monsoon preparation plan and Programme filled up in the prescribed format containing all information as desired for the year 2020-21 with respect to Jagannath Colliery.

This is for your kind information and necessary action.

Yours faithfully,

Encl: As above.

Project Officer,

Copy to:-

- 1. The Project Manager, JNC.**
- 2. The Safety Officer, JNC.**
- 3. File.**

CHECK LIST FOR MONSOON PREPAREDNESS 2018 in JAGANNATH COLLIERY**A. General**

Sl. No.	Check Points	Status	Time line	Remark
1.	Preparation of a Mine specific checklist for monitoring all activities of Monsoon activity plan 2018.	Prepared/ Not prepared	Prepared	
2.	Development of Emergency Response System	Developed/ Not Developed	Developed	
3.	Identification/Monitoring of potential sources of water inrush	Identified/ Not Identified	Not Identified	
4.	Establishment of control room to function round the clock to deal with any eventuality in case of an accident/disaster and to ensure flow of information's higher up	Established/ Not Established	Established	
5.	Haul road preparation at OC mines, which are to be used during monsoon period.	Prepared/ Not prepared	Prepared	
6.	Filling up all known Surface cracks, pot holes, sub sided & low laying areas	Completed/ Not completed	Complied	

B. Drainage System at Mine and Railway Siding

Sl. No.	Check Points	Status	Time line	Remark
---------	--------------	--------	-----------	--------

1.	Garland drain cutting	Completed/ Not Completed	N.A.	
	Internal drain cutting	Completed/ Not Completed	N.A.	
2.	Garland drain cleaning	Completed/ Not Completed	N.A.	
	Internal drain cleaning	Completed/ Not Completed	Going on	
3.	Diversion of nullah if any	Completed/ Not Completed	Not Applicable	
4.	Construction/Repairing of retaining	Completed/ Not Completed	Not Applicable	
5.	Checking of embankments & Bunds constructed against the nullahs, jores, rivers etc. for their effectiveness	Completed/Not completed	Not Applicable	
6.	Cleaning of drains at Railway Siding	Completed/Not completed	Not Applicable	
7.	Cleaning of drains at coal stock yard	Completed/Not completed	Going on	

C. Sump and Pumping Management

Sl. No.	Check Points	Status	Time line	Remark
1.	Assessment of installed pumping capacity vis-à-vis make of water or water in flow through catchment area.	Assessed/ Assessed	Not Assessed	
2.	Sump Cleaning	Completed/ Completed	Not	
3.				
4.				
5.				
6.				

MAHANADI COALFIELDS LIMITED OFFICE OF THE PROJECT OFFICER
JAGANNATH COLLIERY

महानदी कोलफील्ड्स लिमिटेड

ମହାନଦୀ କୋଲ ଫିଲ୍ଡସ୍ ଲିମିଟେଡ

PO: BALANDA, DIST: ANGUL, ODISHA 759116
Tel: 06760-260212, 260458, 260321
email: jagannathcolliery@gmail.com
AN ISO 9001:2008 & 14001:2004 CERTIFIED PROJECT



Ref.No. PO/JNC/Safety/Monsoon/2020/ 27

Date. 03 .01. 2020.

To
The Area Safety Officer,
Jagannath Area.

Sub: - Monsoon preparation for the year 2020-21.


Dear Sir,

Enclosed please find herewith the detail monsoon preparation plan and Programme filled up in the prescribed format containing all information as desired for the year 2020-21 with respect to Jagannath Colliery.

This is for your kind information and necessary action.

Yours faithfully,

Encl: As above.


Project Officer,
Jagannath Colliery.


Copy to:-

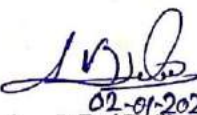
1. The Project Manager, JNC.
2. The Safety Officer, JNC.
3. File.


9.	MS Flange 4"	100 nos.		SO (E&M)/ Project Engineer (E&M)
10.	MS Bend 10"	06 nos.		
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21.	Dog conductor 125 sq.m	02 Km. + 02 KM.		
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26.	PVC armoured aluminium cable 1.1 KV grade 3 & 1/2 core 240 sq.mm	200 mtrs.		
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28.	Tubular 8mt-10mt	60 nos		

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21/1/20
Project Manager,
JNC.

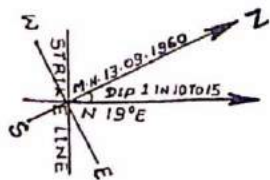
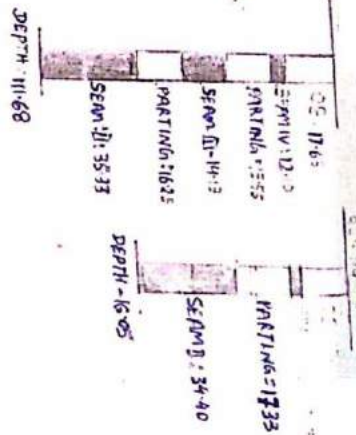
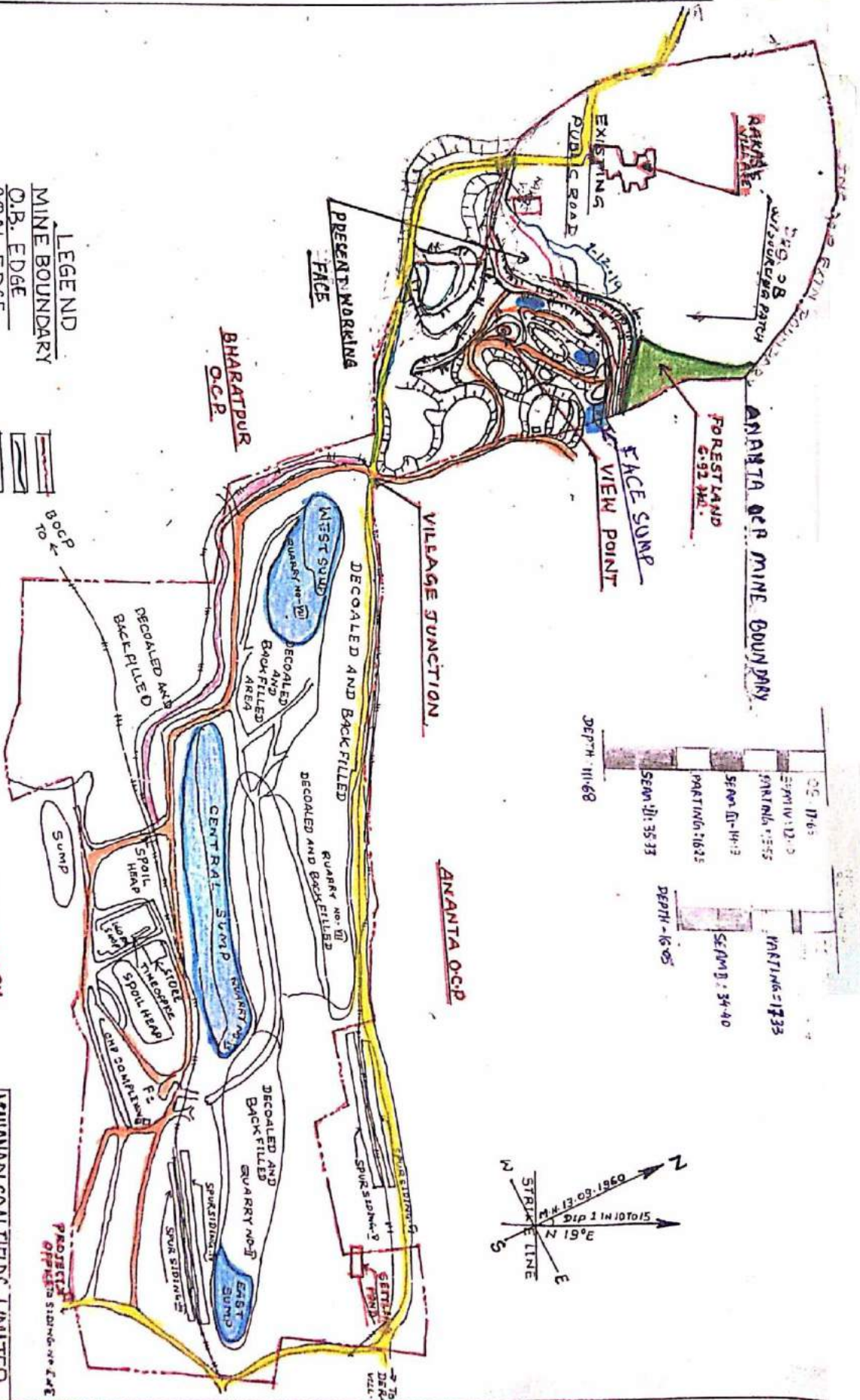

21.1.20
Project Engr.(E&M),
JNC.


02-01-2020
P.E. (Civil),
JNC.


02/01/20
Safety Officer,
JNC.


21/1/20
Asst. Mgr(Survey.)
JNC.

- LEGEND**
- MINE BOUNDARY
 - O.R. EDGE
 - COAL EDGE
 - HAUL ROAD
 - DECOALED AND BACKFIELD
 - SUMP
 - RAILWAY LINE
 - PUBLIC ROAD
 - LV ROAD



MAHANADI COALFIELDS LIMITED
JAGANNATH COLLIERY
SURFACE PLAN

As On - Dt. 01.12.2019
 SCALE = N.T.
 PLAN NO - P01/STC/MINES/102

20/11/20
 M.S. RAO

EMERGENCY RESPONSE PLAN , JAGANNATH COLLIERY.JAGANNATH AREA.

DUTY OF EVERY PERSON:-

Any who notice a fire, in rush of water or major accident, shall take immediate steps to control or aid with whatever appliances are available at the site. He will take the help of other persons available at the site.

He shall also give the message of the fire or inrush of water or major accident to the nearest available Mining Sirdar/Overman/ Foreman or any mine official or to the time office.

DUTY OF THE TIME KEEPER:-

On receiving any information of any fire inundation or a major accident in the mine from any source he shall blow 10 times of the hooter provided, declaring state of emergency. He shall inform (i) Senior most Mine Official present in the mine, over walkie-talkie, and (ii) the following persons over walkie-talkie or Telephone or by a special messenger, if required. The persons to intimated with their telephone numbers are enclosed.

Sl No.	Name	Office No.	Mobile No.
1	Project Officer	260212	9437561362
2	Manager	260458	9437420797
3	Safety Officer	260321	9438493619
4	Personnel Manager		8114984259
5	Area Safety Officer		9438879832
6	Fire station, Talcher	269382	
7	Project Engineer (E&M)		9438878095
8	Project Engineer (Excv.)		9438878096
9	Project Engineer (Civil)		7064779869
10	Survey Officer		9438879954
11	Area Medical Officer		9437426285
12	Finance Manager		9438878275
13	Depot . Officer		9438877149
14	Colliery Police Station	240278	
15	Rescue Station	249630	

On receiving any information of an emergency situation in any mine of the Area, he will contact the GM or any senior executive present at the station.

1. After consulting the GM or Project Officer or Manager if required he will convey the message to out side in the following order.

Sl No.	Person	Office.
1	Fire station, Talcher	240222
2	Fire Station, Angul.	230222
3	Rescue Station	249630
4	Police Station (Gopal Prasad Out Post)	272260
5	CGM(S&R),MCL HQ	2542772

6	DT(O)	2542775
7	DT(P&P)	2542772
8	DMS, BBSR Region	2302561

DUTY OF THE SHIFT INCHARGE:-

On receiving any information of any fire, inrush of water or a major accident in the mine, from any source, the shift in-charge shall intimate it to the Time Keeper for giving message to Project Officer, Manager and Safety Officer over Walkie –Talkie or telephone. He shall proceed to the place of occurrence and give direction to his supervisors, thereafter.

DUTY OF MANAGER:-

On getting information about fire inrush of water or a major accident the Manager shall immediately rush to the place of occurrence.

He will keep contact with the “Time Office”, Shift In-Charge, Safety Officer and other authorities and co-ordinate Rescue & recovery works.

DUTY OF SAFETY OFFICER:-

On getting information about fire, inrush of water or a major accident, the Safety Officer shall immediately rush to the place of occurrence.

He will keep contact with the “Time Office”, Shift In-Charge, and other authorities and co-ordinate Rescue & Recovery works as per the direction of Manager.

DUTY OF PROJECT OFFICER:-

On getting information of an emergency situation in the mine, he shall co-ordinate with the Control Room, Rescue & Recovery Teams.

DUTY OF PERSONNEL MANAGER:-

On getting any emergency in the mine, he will arrange to intimate the company HQ, CGM(S&R), MCL HQ, Director Mines Safety, Rescue Station, Police Station & Medical Officer. He will arrange tea, snacks from time to time for the rescue & recovery work Accommodation facilities for the persons coming from outside for rescue and recovery works.

DUTY OF FINANCE MANAGER:-

On getting information of an emergency, he will arrange sufficient fund for procuring miscellaneous expenditure.

DUTY OF STORE KEEPER:-


On getting information of an emergency situation, he will arrange the emergency materials as per the requirement given by Manager, Project Officer & the control room.

RESUMPTION OF WORK:-

Normal work shall not be resumed in the affected area except with prior permission of the Manager or in his absence the Principal Officials present. The affected working places will be thoroughly examined by a competent person.

ENFORCEMENT OF THE ORDER:-

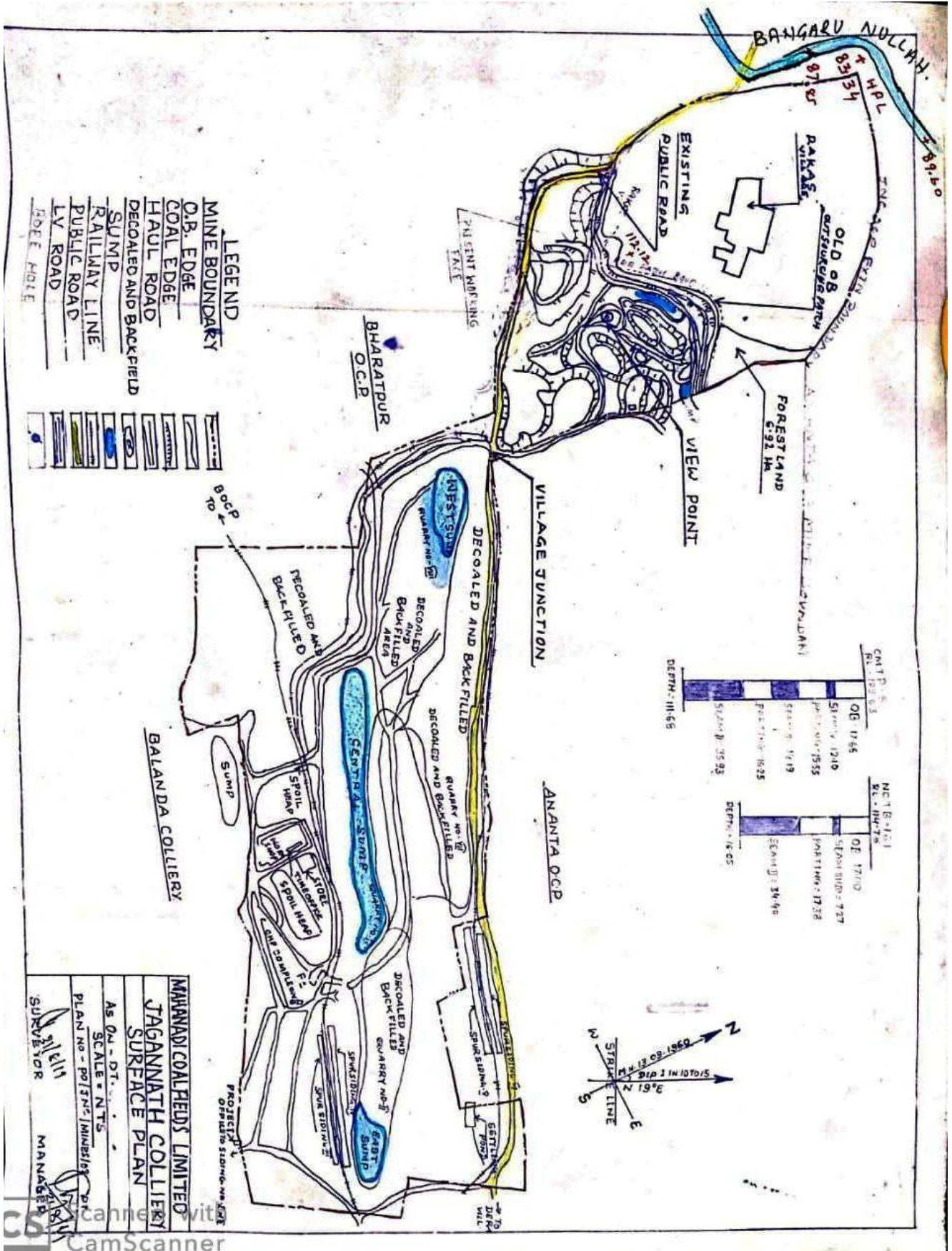
The copy of the order shall be posted in the Mine Office, Time Office and distributed to all concerned. Mock Rehearsal shall be done for this purpose once in every month. A meticulous record of all such occurrences shall be kept in a bound paged book kept for the purpose.


 Project Manager
 Jagannath Colliery.

Distribution:-

1. The General Manager, JA.
2. The Project Officer, JNC.
3. The All Staff Officer, JA.
4. All HOD's, JNC.
5. All Shift Officer, JNC.
6. All Notice Boards/ MTK, HCOLLIERY, JNC.
7. File.

Mine Working Plan of Jagannath Colliery



WATER DANGER PLAN OF JAGANNATH COLLIERY.

In Jagannath Colliery A Water danger Plan & Section showing details as per CMR-2017, Rule No-65(1)(g), has been prepared & kept ready at Colliery Manager Office.

Salient features of water danger Plan

1. Source of water bodies existing upto 200 mtrs of Mine Boundary:-

Bangaru jhor Nallah

1. Floor RL of Bangaru jhor	---	90.47 Mtrs.
2. H.F.L	---	91.34 Mtrs
3. TOP R.L of Mine working/Bangaru jhor Nallah (Present)	---	112.00 Mtrs

2. The position of dyke, fault and other geological disturbances:- No major geological disturbance present within Mine Lease Area.

3. Every reservoir, dam or other structure constructed to with stand a pressure of water or to control inrush of water ,along with reference to its design and other details of constructions:-

Bangaru jhor Mound/embankment (dimensions of 600 m (Length) X 2.00 m (width) X 2.00 m (Height)) made from earthen material with stone pitching towards the nallah side is proposed to be constructed .A proposal for the same has been initiated and proposed work will be completed within three months from the date of issue of work order.

4. Highest Flood Level:- 91.34 Mtrs.

In addition to above an Emergency Response Plan also prepared to deal emergency with respect to inrush of water to Mine.


Project Manager
Jagannath Colliery.

MAHANADI COALFIELDS LIMITED OFFICE OF THE PROJECT OFFICER
JAGANNATH COLLIERY

गहानदी कोलाफील्ड्स लिमिटेड

ମହାନଦୀ କୋଲ ଫିଲ୍ଡସ୍ ଲିମିଟେଡ୍

PO: BALANDA, DIST: ANGUL, ODISHA 759116

Tel: 06760-260212, 260458, 260321

email: jagannathcolliery@gmail.com

AN ISO 9001:2008 & 14001:2004 CERTIFIED PROJECT



Ref. No. PO/JNC/Safety/2021/

1431

Date. 26.04.2021.

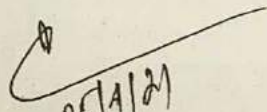
To

The Area Safety Officer,
Jagannath Area.

Dear Sir,

Enclosed please find herewith the Monthly Safety Report in respect of Jagannath Colliery for the month of **March-2021**. This is for your kind information and necessary action.

Yours faithfully,


95/11/21
Project Officer,
Jagannath Colliery.

Copy to:-

1. The General Manager (S&R), MCL, HQ.
2. The Project Manager, JNC.
3. The Safety Officer, JNC.
4. File.

NOISE SURVEY. REPORTS MONTH OF 2021 MARCH IN RESPECT JOCP

Location	Name of the instruments.	Unit in Decimal (dbA)	Present status.	Action taken to reduce noise level
Drill- J-5	CEM Sound Level Meter (Digital)	85 dbA	85.2	Ear Plug/Muff Provided
Drill- IR-783	-do-	85 dbA	85.1	Ear Plug/Muff Provided
Drill- 784	-do-	85 dbA	85.1	-do-
Dozer- 651	-do-	85 dbA	85.4	Ear Plug/Muff Provided
Exc.- 534	-do-	85 dbA	85.2	-do-
Tata- 1200(new)	-do-	85 dbA	84.9	
Tata- 1200(D) Anata	-do-	85 dbA	85.2	-do-
FC Ckt- IV	-do-	85 dbA	85.2	Ear Plug/Muff Provided
FC Ckt- III	-do-	85 dbA	85.3	Ear Plug/Muff Provided
FC Ckt- I	-do-	85 dbA	85.2	-do-
BE 1000 D Font	-do-	85 dbA	85.3	Ear Plug/Muff Provided
Dumper-516	-do-	85 dbA	85.3	-do-
Dumper-575	-do-	85 dbA	85.4	Ear Plug/Muff Provided
Dumper-574	-do-	85 dbA	85.2	-do-

NOISE SURVEY. Reports MONTH of 2021 FEBRUARY

Location	Name of the instruments.	Unit in Decimal (dbA)	Present status.	Action taken to reduce noise level
Drill- J-5	CEM Sound Level Meter (Digital)	85 dbA	85.4	Ear Plug/Muff Provided
Drill- IR-783	-do-	85 dbA	85.3	Ear Plug/Muff Provided
Drill- 784	-do-	85 dbA	85.1	-do-
Dozer- 651	-do-	85 dbA	85.2	Ear Plug/Muff Provided
Exc.- 534	-do-	85 dbA	85.2	-do-
Tata- 1200(new)	-do-	85 dbA	84.6	
Tata- 1200(D) Anata	-do-	85 dbA	85.2	-do-
FC Ckt- IV	-do-	85 dbA	85.4	Ear Plug/Muff Provided
FC Ckt- III	-do-	85 dbA	85.2	Ear Plug/Muff Provided
FC Ckt- I	-do-	85 dbA	85.1	-do-
BE 1000 D Font	-do-	85 dbA	85.2	Ear Plug/Muff Provided
Dumper-516	-do-	85 dbA	85.2	-do-
Dumper-575	-do-	85 dbA	85.6	Ear Plug/Muff Provided
Dumper-574	-do-	85 dbA	85.4	-do-

MAHANADI COALFIELDS LIMITED OFFICE OF THE PROJECT OFFICER
JAGANNATH COLLIERY

ମହାନଦୀ କୋଲଫିଲ୍ଡ୍ସ ଲିମିଟେଡ

ମହାନଦୀ କୋଲ ଫିଲ୍ଡ୍ସ ଲିମିଟେଡ

PO: BALANDA, DIST: ANGUL, ODISHA-759116
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email: jagannathcolliery@gmail.com
AN ISO 9001:2008 & 14001:2004 CERTIFIED PROJECT



Ref. No. PO/JNC/Safety/2021/ 1045

Date 23.03.2021.

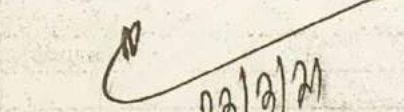
To

The Area Safety Officer,
Jagannath Area.

Dear Sir,

Enclosed please find herewith the Monthly Safety Report in respect of Jagannath Colliery for the month of February-2021. This is for your kind information and necessary action.

Yours faithfully,


Project Officer,
Jagannath Colliery.

Copy to:-

1. The General Manager (S&R), MCL, HQ.
2. The Project Manager, JNC.
3. The Safety Officer, JNC.
4. File.

MAHANADI COALFIELDS LIMITED OFFICE OF THE PROJECT OFFICER
JAGANNATH COLLIERY

ମହାନଦୀ କୋଲଫିଲ୍ଡ୍ସ ଲିମିଟେଡ

ମହାନଦୀ କୋଲ ଫିଲ୍ଡ୍ସ ଲିମିଟେଡ

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email: jagannathcolliery@gmail.com
AN ISO 9001:2008 & 14001:2004 CERTIFIED PROJECT



Ref. No. PO/JNC/Safety/2021/

582

Date. / 8 .02.2021.

To

The Area Safety Officer,
Jagannath Area.

Dear Sir,

Enclosed please find herewith the Monthly Safety Report in respect of Jagannath Colliery for the month of **January-2021**. This is for your kind information and necessary action.

Yours faithfully,

Project Officer,
Jagannath Colliery.

Copy to:-

1. The General Manager (S&R), MCL, HQ.
2. The Project Manager, JNC.
3. The Safety Officer, JNC.
4. File.

NOISE SURVEY.

Location	Name of the instruments.	Unit in Decimal (dbA)	Present status.	Action taken to reduce noise level
Drill- J-5	CEM Sound Level Meter (Digital)	85 dbA	85.1	Ear Plug/Muff Provided
Drill- IR-783	-do-	85 dbA	85.1	Ear Plug/Muff Provided
Drill- 784	-do-	85 dbA	85.4	-do-
Dozer- 651	-do-	85 dbA	85.6	Ear Plug/Muff Provided
Exc.- 534	-do-	85 dbA	85.4	-do-
Tata- 1200(new)	-do-	85 dbA	84.9	
Tata- 1200(D) Anata	-do-	85 dbA	85.1	-do-
FC Ckt- IV	-do-	85 dbA	85.6	Ear Plug/Muff Provided
FC Ckt- III	-do-	85 dbA	85.4	Ear Plug/Muff Provided
FC Ckt- I	-do-	85 dbA	85.3	-do-
BE 1000 D Font	-do-	85 dbA	85.6	Ear Plug/Muff Provided
Dumper-516	-do-	85 dbA	85.7	-do-
Dumper-575	-do-	85 dbA	85.1	Ear Plug/Muff Provided
Dumper-574	-do-	85 dbA	85.6	-do-

LIGHTING.

Location	Value in Unit...Lux.	Value as per Statute	Action taken if deficiency found	Present status
Exc-534 Face	41 V	25 V		
	23 H	15 H		
TATA- 1200D Ananta	22V	25 V		
	16H	15 H		
TATA- 1200D NEW	18.5 V	25 V		
	14.2H	15 H		
BE-1000 (D) (Front)	21.3 V	25 H		
	13.1H	15 V		
Haul Road	8.1H	10 H	Dumper Tipper	
Coal Face	27.1V	25 V		
	14.2 H	15 H		
CHP Sub-Strn.	52.9V	25 V		
	100.9 H	15 H		
CHP W/S	NA	50 V		
	NA	100 H		
CHP Stock	16.4 V	15 V		
	15.9 H	15 H		
Rest Shelter	34.3 H	30 H		
Village Chowk	29.8H	10 H		

REF NO:- Pol/FHC/Safety/Insulation/2021/200

DATE:- 31-05-21

ILLUMINATION SURVEY ON DTD: 29-05-21 & 31-05-21 OF JAGANNATH COLLIERY, JAGANNATH AREA/MCL.

INSPECTION TEAM

- (1)SAFETY OFFICER:-----Sri A.K. Das, Sr. Mgr.(Min)
- (2) ELECTRICAL SAFETY OFFICER:-----Sri Ajaya Ku. Sahoo, Mgr.(E&M)
- (3)ELECTRICAL SUPERVISOR (1)-----Sri SrinibashKhuntia, F.M.(E&M)
- (4)ELECTRICAL SUPERVISOR(2):-----Sri P. C. Dalel, A. F.M. (E&M)
- (5)SR. OVERMAN-----Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (If Any)	REMARKS	
		V	H	CURRENT READING		PREVIOUS READING					
				V	H	V	H				
1	EXCV-459	25	15	25.3	15.1	25.1	15.3				
	EXCV-534	25	15	25.6	15.3	25.4	15.6				
	EXCV-1200-D-ANANTA	25	15	24.9	15.4	25.3	15.7				
	EXCV-1000-D-FRONT	25	15	25.3	14.9	24.7	15.2				
	EXCV-1000-D-BACK	25	15	24.1	14.7	23.8	14.9				
	OPERATORS CABIN-EXCV-459		50			50.2		50.8			
	OPERATORS CABIN-EXCV-534		50			51.2		50.1			
	OPERATORS CABIN-EXCV-1200-D-ANANTA		50			50.5		50.2			
	OPERATORS CABIN-EXCV-1000-D-FRONT		50			49.4		48.8			
	OPERATORS CABIN-EXCV-1000-D-BACK		50			48.8		50.1			
2	AREA OF DRILLING RIG WORKS	25					24.2				
3	AT DRILL HOLES		15			NA	NA				
4	OB DUMP	15	15	15.3	15.1	15.2	15.4				
5	COAL FACE	25	15	23.7	15.2	24.8	15.4				
6	HAUL ROADS		10			8.7	8.3				
7	PERMANENT PATHS FOR USE OF PERSONS		10			8.2	8.6				
8	PUMPING STATION-CENTRAL SUMP		40			27.8	29.8				
	PUMPING STATION- WEST SUMP		40			29.8	30.9				
	PUMPING STATION- COAL FACE SUMP		40			31.2	33.5				
9	REST SHELTER (MINES TIME OFFICE)		30			32.7	31.3				
10	FIRST-AID-STATION (MINES)		30			30.9	31.8				
11	SUB-STATION (MAIN)	50	100	51.4	102.5	52.2	101.4				
	SUB-STATION (MINES)	50	100	39.1	91.2	38.8	90.6				
12- CHP	CHP-FIRST-AID STATION	50	100	51.6	101.2	51.1	99.5				
	CHP-SUB-STATION	50	100	NA	NA	NA	NA				
	CHP-WORK SHOP		30			13.8	14.1				
	CHP-REST SHELTER	15	15	15.7	15.5	15.4	15.9				
	CHP-COAL STOCK YARD		50			29.8	30.6				
	CHP-HAND PICKING POINTS	25	15	15.2	14.9	14.8	13.7				
	CHP-MANUAL WORKING ZONE		40			30.1	28.8				
	CHP-DRIVE HEAD OF CONVEYORS		40			28.8	29.6				
	CHP-PLACE OF CRUSHING		20			14.9	15.6				
	CHP-ALONG CONVEYOR-B2		20			15.2	15.5				
	CHP-ALONG CONVEYOR-B4		20			14.7	15.4				
	CHP-ALONG CONVEYOR-D2		20			15.3	15.1				
	CHP-ALONG CONVEYOR-D4		40			28.6	29.6				
	CHP-TAIL END OF CONVEYOR-B5		40			28.8	30.7				
	CHP-TAIL END OF CONVEYOR-D5		40			30.2	31.8				
13- FC	FC-FIRST-AID STATION	50	100	51.5	103.2	53.2	102.5				
FC-SUB-STATION	50	100	NA	NA	NA	NA					
FC-WORK SHOP		30			29.5		32.1				
FC-REST SHELTER	15	15	15.7	15.5	15.4	15.9					
FC-COAL STOCK YARD		50			22.8		23.2				
FC-HAND PICKING POINTS		50			23.9		24.8				
FC-OPERATORS CABIN-1		50			24.1		24.6				
FC-OPERATORS CABIN-2		50			32.7		34.1				
FC-OPERATORS CABIN-3		50			34.8		35.3				
FC-OPERATORS CABIN-4		40			32.9		33.9				
FC-DRIVE HEAD OF CONVEYOR-1		40			30.1		29.9				
FC-DRIVE HEAD OF CONVEYOR-2		40			30.4		30.1				
FC-DRIVE HEAD OF CONVEYOR-3		40			29.2		28.2				
FC-DRIVE HEAD OF CONVEYOR-4		40			28.4		28.5				
	FC-PLACE OF CRUSHING-1		40								

	FC-PLACE OF CRUSHING-2		40		31.8		32.6		
	FC-PLACE OF CRUSHING-3		40		29.7		30.1		
	FC-PLACE OF CRUSHING-4		40		30.1		30.3		
	FC-ALONG CONVEYOR-1		20		15.2		14.6		
	FC-ALONG CONVEYOR-2		20		14.9		15.2		
	FC-ALONG CONVEYOR-3		20		15.2		14.7		
	FC-ALONG CONVEYOR-4		20		14.6		14.9		
	FC-TAIL END OF CONVEYOR-1		40		24.6		25.1		
	FC-TAIL END OF CONVEYOR-2		40		24.8		24.2		
	FC-TAIL END OF CONVEYOR-3		40		24.1		24.3		
	FC-TAIL END OF CONVEYOR-4		40		25.1		24.8		
	FC-CHUTE OPENING-1			23.2	31.3	22.3	32.8		
	FC-CHUTE OPENING-2			22.6	32.7	21.8	33.6		
	FC-CHUTE OPENING-3			25.1	34.6	24.9	35.1		
	FC-CHUTE OPENING-4			25.4	35.2	25.4	35.8		
14	WORK SHOP-50 Te DUMPER	50	100	51.2	90.1	53.2	92.1		
	WORK SHOP-DOZER	50	100	48.9	90.5	51.3	92.6		
	WORK SHOP-AUX	50	100	42.6	83.2	43.3	85.1		
	PARKING YARD - DUMPER		50		51.6		53.8		
	PARKING YARD - DRILL		50		52.1		53.1		

[Signature]
21.5.21

Electrical Supervisor
Jagannath Colliery.

[Signature]
31/05/21

Electrical Supervisor
Jagannath Colliery

[Signature]
31/05/21

SR. OVERMAN
Jagannath Colliery

[Signature]
31-05-21

Electrical Safety Officer
Jagannath Colliery

[Signature]
31/5/21

Safety Officer
Jagannath Colliery

[Signature]
31/5/2021

Project Manager.
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

Ret. Ppt/Met/Safety/Illumination 2021/191 Dt. 15-05-21

REF NO:-

DATE:-

ILLUMINATION SURVEY ON DTD: 14-05-21 & 15-05-21 OF JAGANNATH COLLIERY, JAGANNATH AREA/MCL

INSPECTION TEAM

- (1)SAFETY OFFICER:-----Sri A.K. Das, Sr. Mgr.(Min)
- (2) ELECTRICAL SAFETY OFFICER:-----Sri Ajaya Ku. Sahoo, Mgr.(E&M)
- (3)ELECTRICAL SUPERVISOR (1) -----Sri SrinibashKhuntia, F.M.(E&M)
- (4)ELECTRICAL SUPERVISOR(2):-----Sri P. C. Dalei, A. F.M. (E&M)
- (5)SR. OVERMAN-----Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (If Any)	REMARKS	
		V	H	CURRENT READING		PREVIOUS READING					
				V	H	V	H				
1	EXCV-459	25	15	25.1	15.3	25.5	15.2				
	EXCV-534	25	15	25.4	15.6	26.7	15.8				
	EXCV-1200-D-ANANTA	25	15	25.3	15.7	25.2	15.4				
	EXCV-1000-D-FRONT	25	15	24.7	15.2	25.1	15.3				
	EXCV-1000-D-BACK	25	15	23.8	14.9	22.3	14.2				
	OPERATORS CABIN-EXCV-459		50			50.8		51.2			
	OPERATORS CABIN-EXCV-534		50			50.1		50.8			
	OPERATORS CABIN-EXCV-1200-D-ANANTA		50			50.2		50.3			
	OPERATORS CABIN-EXCV-1000-D-FRONT		50			48.8		49.8			
OPERATORS CABIN-EXCV-1000-D-BACK		50			50.1		50.4				
2	AREA OF DRILLING RIG WORKS	25			24.2	23.7					
3	AT DRILL HOLES		15		NA	NA					
4	OB DUMP	15	15	15.2	15.4	15.3	15.7				
5	COAL FACE	25	15	24.8	15.4	25.4	15.3				
6	HAUL ROADS		10		8.3		8.1				
7	PERMANENT PATHS FOR USE OF PERSONS		10		8.6		8.2				
8	PUMPING STATION-CENTRAL SUMP		40		29.8		30.4				
	PUMPING STATION- WEST SUMP		40		30.9		32.3				
	PUMPING STATION- COAL FACE SUMP		40		33.5		34.1				
9	REST SHELTER (MINES TIME OFFICE)		30		31.3		30.9				
10	FIRST-AID-STATION (MINES)		30		31.8		30.5				
11	SUB-STATION (MAIN)	50	100	52.2	101.4	51.4	102.5				
	SUB-STATION (MINES)	50	100	38.8	90.6	39.6	91.2				
12- CHP	CHP-FIRST-AID STATION		50		NA		NA				
	CHP-SUB-STATION	50	100	51.1	99.5	50.5	100.6				
	CHP-WORK SHOP	50	100	NA	NA	NA	NA				
	CHP-REST SHELTER		30		14.1		14.8				
	CHP-COAL STOCK YARD	15	15	15.4	15.9	15.9	16.1				
	CHP-HAND PICKING POINTS		50		30.6		31.4				
	CHP-MANUAL WORKING ZONE	25	15	14.8	13.7	15.3	13.2				
	CHP-DRIVE HEAD OF CONVEYORS		40		28.8		29.5				
	CHP-PLACE OF CRUSHING		40		29.6		30.1				
	CHP-ALONG CONVEYOR-B2		20		15.6		16.2				
	CHP-ALONG CONVEYOR-B4		20		15.5		15.9				
	CHP-ALONG CONVEYOR-D2		20		15.4		15.2				
	CHP-ALONG CONVEYOR-D4		20		15.1		15.6				
	CHP-TAIL END OF CONVEYOR-B5		40		29.6		30.4				
	CHP-TAIL END OF CONVEYOR-D5		40		30.7		31.2				
	CHP-TRANSFER POINT-B3		40		31.8		32.4				
CHP-TRANSFER POINT-D3		40		30.9		31.6					
13- FC	FC-FIRST-AID STATION		50		53.6		54.2				
	FC-SUB-STATION	50	100	53.2	102.5	52.5	101.4				
	FC-WORK SHOP	50	100	NA	NA	NA	NA				
	FC-REST SHELTER		30				28.3				
	FC-COAL STOCK YARD	15	15	15.4	15.9	15.9	15.7				
	FC-HAND PICKING POINTS		50		23.2		22.8				
	FC-OPERATORS CABIN-1		50		24.8		25.6				
	FC-OPERATORS CABIN-2		50		24.6		25.4				
	FC-OPERATORS CABIN-3		50		34.1		33.5				
	FC-OPERATORS CABIN-4		50		35.3		34.1				
	FC-DRIVE HEAD OF CONVEYOR-1		40		33.9		34.6				
	FC-DRIVE HEAD OF CONVEYOR-2		40		29.9		30.1				
	FC-DRIVE HEAD OF CONVEYOR-3		40		30.1		30.3				
	FC-DRIVE HEAD OF CONVEYOR-4		40		28.2		27.9				
FC-PLACE OF CRUSHING-1		40		28.5		28.1					

	FC-PLACE OF CRUSHING-2		40		32.6		33.1		
	FC-PLACE OF CRUSHING-3		40		30.1		29.5		
	FC-PLACE OF CRUSHING-4		40		30.3		30.4		
	FC-ALONG CONVEYOR-1		20		14.6		14.9		
	FC-ALONG CONVEYOR-2		20		15.2		14.7		
	FC-ALONG CONVEYOR-3		20		14.7		13.7		
	FC-ALONG CONVEYOR-4		20		14.9		14.6		
	FC-TAIL END OF CONVEYOR-1		40		25.1		24.2		
	FC-TAIL END OF CONVEYOR-2		40		24.2		23.8		
	FC-TAIL END OF CONVEYOR-3		40		24.3		24.5		
	FC-TAIL END OF CONVEYOR-4		40		24.8		24.1		
	FC-CHUTE OPENING-1				22.3	32.8	21.4	33.8	
	FC-CHUTE OPENING-2				21.8	33.6	22.5	34.5	
	FC-CHUTE OPENING-3				24.9	35.1	25.1	34.9	
	FC-CHUTE OPENING-4				25.4	35.8	25.7	35.4	
14	WORK SHOP-50 Te DUMPER	50	100	53.2	92.1	52.3	91.4		
	WORK SHOP-DOZER	50	100	51.3	92.6	50.5	93.1		
	WORK SHOP-AUX	50	100	43.3	85.1	42.1	84.7		
	PARKING YARD - DUMPER		50		53.8		53.1		
	PARKING YARD - DRILL		50		53.1		52.8		

MCE
15/5/21
Electrical Supervisor
Jagannath Colliery.

Dale
15.05.21
Electrical Supervisor
Jagannath Colliery

SR
15.05.21
SR. OVERMAN
Jagannath Colliery

Pray
15-05-21
Electrical Safety Officer
Jagannath Colliery

Pray
15/5/21
Safety Officer
Jagannath Colliery

Project Manager.
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

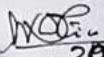
ILLUMINATION SURVEY ON DTD: 29-04-21 & 30-04-21 OF JAGANNATH COLLIERY, JAGANNATH AREA/MCL.


INSPECTION TEAM

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- (5)SR. OVERMAN-----Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

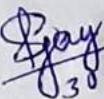
SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (If Any)	REMARKS	
		V	H	CURRENT READING		PREVIOUS READING					
				V	H	V	H				
1	EXCV-459	25	15	25.5	15.2	25.3	15.8				
	EXCV-534	25	15	26.7	15.8	29.5	16.4				
	EXCV-1200-D-ANANTA	25	15	25.2	15.4	25.1	15.3				
	EXCV-1000-D-FRONT	25	15	25.1	15.3	24.4	15.1				
	EXCV-1000-D-BACK	25	15	22.3	14.2	20.4	14.5				
	OPERATORS CABIN-EXCV-459		50		51.2			50.6			
	OPERATORS CABIN-EXCV-534		50		50.8			51.1			
	OPERATORS CABIN-EXCV-1200-D-ANANTA		50		50.3			50.8			
	OPERATORS CABIN-EXCV-1000-D-FRONT		50		49.8			50.2			
OPERATORS CABIN-EXCV-1000-D-BACK		50		50.4			50.7				
2	AREA OF DRILLING RIG WORKS	25		23.7		24.3					
3	AT DRILL HOLES		15	NA		NA					
4	OB DUMP	15	15	15.3	15.7	15.9	16.8				
5	COAL FACE	25	15	25.4	15.3	26.1	16.2				
6	HAUL ROADS		10		8.1		7.6				
7	PERMANENT PATHS FOR USE OF PERSONS		10		8.2		8.9				
8	PUMPING STATION-CENTRAL SUMP		40		30.4		32.8				
	PUMPING STATION- WEST SUMP		40		32.3		34.6				
	PUMPING STATION-COAL FACE SUMP		40		34.1		35.1				
9	REST SHELTER (MINES TIME OFFICE)		30		30.9		31.2				
10	FIRST-AID-STATION (MINES)		30		30.5		32.5				
11	SUB-STATION (MAIN)	50	100	51.4	102.5	55.3	103.9				
	SUB-STATION (MINES)	50	100	39.6	91.2	41.2	90.8				
12- CHP	CHP-FIRST-AID STATION		50		NA		NA				
	CHP-SUB-STATION	50	100	50.5	100.6	50.4	101.2				
	CHP-WORK SHOP	50	100	NA	NA	NA	NA				
	CHP-REST SHELTOR		30		14.8		15.7				
	CHP-COAL STOCK YARD	15	15	15.9	16.1	16.1	16.4				
	CHP-HAND PICKING POINTS		50		31.4		30.4				
	CHP-MANUAL WORKING ZONE	25	15	15.3	13.2	15.9	13.8				
	CHP-DRIVE HEAD OF CONVEYORS		40		29.5		30.4				
	CHP-PLACE OF CRUSHING		40		30.1		30.7				
	CHP-ALONG CONVEYOR-B2		20		16.2		15.8				
	CHP-ALONG CONVEYOR-B4		20		15.9		15.4				
	CHP-ALONG CONVEYOR-D2		20		15.2		15.9				
	CHP-ALONG CONVEYOR-D4		20		15.6		16.1				
	CHP-TAIL END OF CONVEYOR-B5		40		30.4		32.3				
CHP-TAIL END OF CONVEYOR-D5		40		31.2		33.8					
CHP-TRANSFER POINT-B3		40		32.4		34.7					
CHP-TRANSFER POINT-D3		40		31.6		34.8					
13- FC	FC-FIRST-AID STATION		50		54.2		54.7				
	FC-SUB-STATION	50	100	52.5	101.4	52.1	102.1				
	FC-WORK SHOP	50	100	NA	NA	NA	NA				
	FC-REST SHELTOR		30		28.3		27.3				
	FC-COAL STOCK YARD	15	15	15.9	15.7	16.4	16.2				
	FC-HAND PICKING POINTS		50		22.8		23.1				
	FC-OPERATORS CABIN-1		50		25.6		27.6				
	FC-OPERATORS CABIN-2		50		25.4		27.9				
	FC-OPERATORS CABIN-3		50		33.5		32.2				
	FC-OPERATORS CABIN-4		50		34.1		33.8				
	FC-DRIVE HEAD OF CONVEYOR-1		40		34.6		33.8				
	FC-DRIVE HEAD OF CONVEYOR-2		40		30.1		31.2				
	FC-DRIVE HEAD OF CONVEYOR-3		40		30.3		29.2				
	FC-DRIVE HEAD OF CONVEYOR-4		40		27.9		28.4				
FC-PLACE OF CRUSHING-1		40		28.1		29.1					

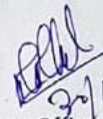
	FC-PLACE OF CRUSHING-2		40		33.1		32.4		
	FC-PLACE OF CRUSHING-3		40		29.5		30.8		
	FC-PLACE OF CRUSHING-4		40		30.4		29.2		
	FC-ALONG CONVEYOR-1		20		14.9		15.8		
	FC-ALONG CONVEYOR-2		20		14.7		15.2		
	FC-ALONG CONVEYOR-3		20		13.7		15.1		
	FC-ALONG CONVEYOR-4		20		14.6		15.3		
	FC-TAIL END OF CONVEYOR-1		40		24.2		23.9		
	FC-TAIL END OF CONVEYOR-2		40		23.8		24.1		
	FC-TAIL END OF CONVEYOR-3		40		24.5		25.2		
	FC-TAIL END OF CONVEYOR-4		40		24.1		24.8		
	FC-CHUTE OPENING-1			21.4	33.8	20.2	34.8		
	FC-CHUTE OPENING-2			22.5	34.5	21.5	35.1		
	FC-CHUTE OPENING-3			25.1	34.9	24.8	36.1		
	FC-CHUTE OPENING-4			25.7	35.4	25.2	35.8		
14	WORK SHOP-50 Te DUMPER	50	100	52.3	91.4	53.4	92.3		
	WORK SHOP-DOZER	50	100	50.5	93.1	51.1	92.7		
	WORK SHOP-AUX	50	100	42.1	84.7	45.6	87.3		
	PARKING YARD - DUMPER		50		53.1		54.1		
	PARKING YARD - DRILL		50		52.8		53.9		



20/4/2021
Electrical Supervisor
Jagannath Colliery.


30/4/21
Electrical Supervisor
Jagannath Colliery


30-04-21
SR. OVERMAN
Jagannath Colliery


30-04-21
Electrical Safety Officer
Jagannath Colliery


30/4/21
Safety Officer
Jagannath Colliery


30/04/21
Project Manager.
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

ILLUMINATION SURVEY ON DTD: 14-04-21 & 15-04-21 OF JAGANNATH COLLIERY, JAGANNATH AREA/MCL

INSPECTION TEAM

- (1)SAFETY OFFICER:-----Sri A.K. Das, Sr. Mgr.(Min)
 (2) ELECTRICAL SAFETY OFFICER:-----Sri Ajaya Ku. Sahoo, Mgr.(E&M)
 (3)ELECTRICAL SUPERVISOR (1)-----Sri Srinibash Khuntia, F.M.(E&M)
 (4)ELECTRICAL SUPERVISOR(2):-----Sri P. C. Dalei, A. F.M. (E&M)
 (5)SR. OVERMAN-----Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (If Any)	REMARKS
		V	H	CURRENT READING		PREVIOUS READING				
				V	H	V	H			
1	EXCV-459	25	15	25.1	15.4	25.3	15.8			
	EXCV-534	25	15	27.2	15.8	29.5	16.4			
	EXCV-1200-D-ANANTA	25	15	25.4	15.6	25.1	15.3			
	EXCV-1000-D-FRONT	25	15	25.2	15.3	24.4	15.1			
	EXCV-1000-D-BACK	25	15	22.5	15.3	20.4	14.5			
	OPERATORS CABIN-EXCV-459		50		51.2		50.6			
	OPERATORS CABIN-EXCV-534		50		50.8		51.1			
	OPERATORS CABIN-EXCV-1200-D-ANANTA		50		50.3		50.8			
	OPERATORS CABIN-EXCV-1000-D-FRONT		50		50.9		50.2			
	OPERATORS CABIN-EXCV-1000-D-BACK		50		50.1		50.7			
2	AREA OF DRILLING RIG WORKS	25		23.8		24.3				
3	AT DRILL HOLES		15		NA		NA			
4	OB DUMP	15	15	15.4	15.9	15.9	16.8			
5	COAL FACE	25	15	26.3	15.8	26.1	16.2			
6	HAUL ROADS		10		7.8		7.6			
7	PERMANENT PATHS FOR USE OF PERSONS		10		9.1		8.9			
8	PUMPING STATION-CENTRAL SUMP		40		32.4		32.8			
	PUMPING STATION- WEST SUMP		40		33.8		34.6			
	PUMPING STATION- COAL FACE SUMP		40		35.6		35.1			
9	REST SHELTER (MINES TIME OFFICE)		30		32.2		31.2			
10	FIRST-AID-STATION (MINES)		30		31.9		32.5			
11	SUB-STATION (MAIN)	50	100	54.9	102.8	55.3	103.9			
	SUB-STATION (MINES)	50	100	42.1	91.2	41.2	90.8			
12- CHP	CHP-FIRST-AID STATION		50		NA		NA			
	CHP-SUB-STATION	50	100	51.2	102.1	50.4	101.2			
	CHP-WORK SHOP	50	100	NA	NA	NA	NA			
	CHP-REST SHELTER		30		15.9		15.7			
	CHP-COAL STOCK YARD	15	15	16.5	16.8	16.1	16.4			
	CHP-HAND PICKING POINTS		50		29.9		30.4			
	CHP-MANUAL WORKING ZONE	25	15	16.7	13.4	15.9	13.8			
	CHP-DRIVE HEAD OF CONVEYORS		40		31.2		30.4			
	CHP-PLACE OF CRUSHING		40		30.3		30.7			
	CHP-ALONG CONVEYOR-B2		20		16.1		15.8			
	CHP-ALONG CONVEYOR-B4		20		15.2		15.4			
	CHP-ALONG CONVEYOR-D2		20		15.4		15.9			
	CHP-ALONG CONVEYOR-D4		20		15.8		16.1			
	CHP-TAIL END OF CONVEYOR-B5		40		31.7		32.3			
	CHP-TAIL END OF CONVEYOR-D5		40		32.9		33.8			
CHP-TRANSFER POINT-B3		40		33.8		34.7				
CHP-TRANSFER POINT-D3		40		34.2		34.8				
13- FC	FC-FIRST-AID STATION		50		55.2		54.7			
	FC-SUB-STATION	50	100	53.2	12.8	52.1	102.1			
	FC-WORK SHOP	50	100	NA	NA	NA	NA			
	FC-REST SHELTER		30		26.8		27.3			
	FC-COAL STOCK YARD	15	15	16.1	16.3	16.4	16.2			
	FC-HAND PICKING POINTS		50		22.9		23.1			
	FC-OPERATORS CABIN-1		50		25.8		27.6			
	FC-OPERATORS CABIN-2		50		26.2		27.9			
	FC-OPERATORS CABIN-3		50		28.4		32.2			
	FC-OPERATORS CABIN-4		50		31.5		33.8			
	FC-DRIVE HEAD OF CONVEYOR-1		40		32.3		33.8			
	FC-DRIVE HEAD OF CONVEYOR-2		40		32.1		31.2			
	FC-DRIVE HEAD OF CONVEYOR-3		40		30.3		29.2			
	FC-DRIVE HEAD OF CONVEYOR-4		40		29.4		28.4			
	FC-PLACE OF CRUSHING-1		40		28.5		29.1			

	FC-PLACE OF CRUSHING-2		40		31.8		32.4		
	FC-PLACE OF CRUSHING-3		40		31.2		30.8		
	FC-PLACE OF CRUSHING-4		40		30.5		29.2		
	FC-ALONG CONVEYOR-1		20		16.1		15.8		
	FC-ALONG CONVEYOR-2		20		16.3		15.2		
	FC-ALONG CONVEYOR-3		20		15.6		15.1		
	FC-ALONG CONVEYOR-4		20		15.8		15.3		
	FC-TAIL END OF CONVEYOR-1		40		24.1		23.9		
	FC-TAIL END OF CONVEYOR-2		40		23.9		24.1		
	FC-TAIL END OF CONVEYOR-3		40		25.3		25.2		
	FC-TAIL END OF CONVEYOR-4		40		25.2		24.8		
	FC-CHUTE OPENING-1			22.3	35.1	20.2	34.8		
	FC-CHUTE OPENING-2			22.5	35.6	21.5	35.1		
	FC-CHUTE OPENING-3			25.2	35.8	24.8	36.1		
	FC-CHUTE OPENING-4			26.3	36.2	25.2	35.8		
14	WORK SHOP-50 Te DUMPER	50	100	54.1	92.2	53.4	92.3		
	WORK SHOP-DOZER	50	100	50.8	91.5	51.1	92.7		
	WORK SHOP-AUX	50	100	45.1	86.3	45.6	87.3		
	PARKING YARD - DUMPER		50		53.8		54.1		
	PARKING YARD - DRILL		50		52.9		53.9		

[Signature]
15/4/2021
Electrical Supervisor
Jagannath Colliery.

[Signature]
15/4/21
Electrical Supervisor
Jagannath Colliery

[Signature]
15-04-21
SR. OVERMAN
Jagannath Colliery

[Signature]
15-04-21
Electrical Safety Officer
Jagannath Colliery

[Signature]
15/04/21
Safety Officer
Jagannath Colliery

[Signature]
15/04/21
Project Manager.
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

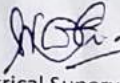
ILLUMINATION SURVEY ON DTD: 30-03-21 & 31-03-21 OF JAGANNATH COLLIERY, JAGANNATH AREA/MCL

INSPECTION TEAM

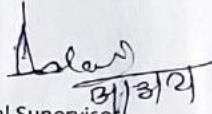
- (1)SAFETY OFFICER:—Sri A.K. Das, Sr. Mgr.(Min)
 (2) ELECTRICAL SAFETY OFFICER:—Sri Ajaya Ku. Sahoo, Mgr.(E&M)
 (3)ELECTRICAL SUPERVISOR (1) —Sri Srinibash Khuntia, F.M.(E&M)
 (4)ELECTRICAL SUPERVISOR(2)—Sri P. C. Dalei, A. F.M. (E&M)
 (5)SR. OVERMAN—Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (If Any)	REMARKS
		V	H	CURRENT READING		PREVIOUS READING				
				V	H	V	H			
1	EXCV-459	25	15	25.3	15.8	26.4	16.9			
	EXCV-534	25	15	29.5	16.4	33.9	17.8			
	EXCV-1200-D-ANANTA	25	15	25.1	15.3	24.1	15.8			
	EXCV-1000-D-FRONT	25	15	24.4	15.1	23.2	14.1			
	EXCV-1000-D-BACK	25	15	20.4	14.5	18.1	13.4			
	OPERATORS CABIN-EXCV-459		50		50.6		51.6			
	OPERATORS CABIN-EXCV-534		50		51.1		51.2			
	OPERATORS CABIN-EXCV-1200-D-ANANTA		50		50.8		50.3			
	OPERATORS CABIN-EXCV-1000-D-FRONT		50		50.2		50.5			
OPERATORS CABIN-EXCV-1000-D-BACK		50		50.7		49.6				
2	AREA OF DRILLING RIG WORKS	25			24.3		23.1			
3	AT DRILL HOLES		15		NA		NA			
4	OB DUMP	15	15	15.9	16.8	15.3	17.4			
5	COAL FACE	25	15	26.1	16.2	25.6	15.9			
6	HAUL ROADS		10		7.6		7.9			
7	PERMANENT PATHS FOR USE OF PERSONS		10		8.9		8.5			
8	PUMPING STATION-CENTRAL SUMP		40		32.8		33.9			
	PUMPING STATION- WEST SUMP		40		34.6		35.7			
	PUMPING STATION- COAL FACE SUMP		40		35.1		34.8			
9	REST SHELTER (MINES TIME OFFICE)		30		31.2		30.7			
10	FIRST-AID-STATION (MINES)		30		32.5		31.2			
11	SUB-STATION (MAIN)	50	100	55.3	103.9	54.8	103.2			
	SUB-STATION (MINES)	50	100	41.2	90.8	40.5	90.1			
12- CHP	CHP-FIRST-AID STATION		50		NA		NA			
	CHP-SUB-STATION	50	100	50.4	101.2	51.6	101.5			
	CHP-WORK SHOP	50	100	NA	NA	NA	NA			
	CHP-REST SHELTER		30		15.7		15.1			
	CHP-COAL STOCK YARD	15	15	16.1	16.4	15.7	15.9			
	CHP-HAND PICKING POINTS		50		30.4		33.7			
	CHP-MANUAL WORKING ZONE	25	15	15.9	13.8	16.1	14.2			
	CHP-DRIVE HEAD OF CONVEYORS		40		30.4		32.9			
	CHP-PLACE OF CRUSHING		40		30.7		33.8			
	CHP-ALONG CONVEYOR-B2		20		15.8		16.1			
	CHP-ALONG CONVEYOR-B4		20		15.4		16.5			
	CHP-ALONG CONVEYOR-D2		20		15.9		16.9			
	CHP-ALONG CONVEYOR-D4		20		16.1		16.8			
	CHP-TAIL END OF CONVEYOR-B5		40		32.3		34.8			
	CHP-TAIL END OF CONVEYOR-D5		40		33.8		35.9			
CHP-TRANSFER POINT-B3		40		34.7		35.5				
CHP-TRANSFER POINT-D3		40		34.8		35.1				
13- FC	FC-FIRST-AID STATION		50		54.7		53.4			
	FC-SUB-STATION	50	100	52.1	102.1	51.4	101.8			
	FC-WORK SHOP	50	100	NA	NA	NA	NA			
	FC-REST SHELTER		30		27.3		26.4			
	FC-COAL STOCK YARD	15	15	16.4	16.2	15.4	15.9			
	FC-HAND PICKING POINTS		50		23.1		24.9			
	FC-OPERATORS CABIN-1		50		27.6		27.8			
	FC-OPERATORS CABIN-2		50		27.9		28.4			
	FC-OPERATORS CABIN-3		50		32.2		31.4			
	FC-OPERATORS CABIN-4		50		33.8		36.8			
	FC-DRIVE HEAD OF CONVEYOR-1		40		33.8		35.2			
	FC-DRIVE HEAD OF CONVEYOR-2		40		31.2		30.1			
	FC-DRIVE HEAD OF CONVEYOR-3		40		29.2		27.9			
	FC-DRIVE HEAD OF CONVEYOR-4		40		28.4		27.6			
	FC-PLACE OF CRUSHING-1		40		29.1		28.5			
FC-PLACE OF CRUSHING-2		40		32.4		30.8				
FC-PLACE OF CRUSHING-3		40		30.8		30.7				

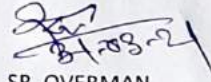
	FC-PLACE OF CRUSHING-4		40		29.2		28.7		
	FC-ALONG CONVEYOR-1		20		15.8		16.4		
	FC-ALONG CONVEYOR-2		20		15.2		15.7		
	FC-ALONG CONVEYOR-3		20		15.1		15.3		
	FC-ALONG CONVEYOR-4		20		15.3		15.1		
	FC-TAIL END OF CONVEYOR-1		40		23.9		24.7		
	FC-TAIL END OF CONVEYOR-2		40		24.1		24.3		
	FC-TAIL END OF CONVEYOR-3		40		25.2		24.6		
	FC-TAIL END OF CONVEYOR-4		40		24.8		23.9		
	FC-CHUTE OPENING-1			20.2	34.8	19.1	35.2		
	FC-CHUTE OPENING-2			21.5	35.1	22.3	34.8		
	FC-CHUTE OPENING-3			24.8	36.1	25.1	35.9		
	FC-CHUTE OPENING-4			25.2	35.8	24.9	36.7		
14	WORK SHOP-50 Te DUMPER	50	100	53.4	92.3	54.1	90.8		
	WORK SHOP-DOZER	50	100	51.1	92.7	51.7	93.1		
	WORK SHOP-AUX	50	100	45.6	87.3	44.2	86.1		
	PARKING YARD - DUMPER		50		54.1		53.8		
	PARKING YARD - DRILL		50		53.9		53.2		


31.3.2021

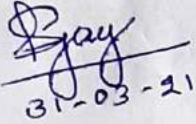
Electrical Supervisor
Jagannath Colliery.


31/3/21

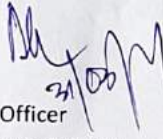
Electrical Supervisor
Jagannath Colliery


31.03.21

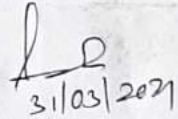
SR. OVERMAN
Jagannath Colliery


31-03-21

Electrical Safety Officer
Jagannath Colliery


31/03/21

Safety Officer
Jagannath Colliery


31/03/2021

Project Manager.
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

REF NO:- P-13 No/Safety/illumination/2021/128

DATE:- 15-03-21

ILLUMINATION SURVEY ON DTD: 13-03-21 & 15-03-21 OF JAGANNATH COLLIERY, JAGANNATH AREA/MCL.

INSPECTION TEAM

- (1)SAFETY OFFICER:-----Sri A.K. Das, Sr. Mgr.(Min)
- (2) ELECTRICAL SAFETY OFFICER:-----Sri Ajaya Ku. Sahoo, Mgr.(E&M)
- (3)ELECTRICAL SUPERVISOR (1) -----Sri SrinibashKhuntia, F.M.(E&M)
- (4)ELECTRICAL SUPERVISOR(2):-----Sri P. C. Dalei, A. F.M. (E&M)
- (5)SR. OVERMAN-----Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (If Any)	REMARKS
		V	H	CURRENT READING		PREVIOUS READING				
				V	H	V	H			
1	EXCV-459	25	15	26.4	16.9	28.3	17.5			
	EXCV-534	25	15	33.9	17.8	35.6	20.8			
	EXCV-1200-D-ANANTA	25	15	24.1	15.8	23.7	15.1			
	EXCV-1000-D-FRONT	25	15	23.2	14.1	23.1	13.7			
	EXCV-1000-D-BACK	25	15	18.1	13.4	17.9	13.2			
	OPERATORS CABIN-EXCV-459		50		51.6		51.1			
	OPERATORS CABIN-EXCV-534		50		51.2		50.9			
	OPERATORS CABIN-EXCV-1200-D-ANANTA		50		50.3		49.4			
	OPERATORS CABIN-EXCV-1000-D-FRONT		50		50.5		50.2			
OPERATORS CABIN-EXCV-1000-D-BACK		50		49.6		48.4				
2	AREA OF DRILLING RIG WORKS	25			23.1	22.9				
3	AT DRILL HOLES		15		NA	NA				
4	OB DUMP	15	15	15.3	17.4	16.3	17.1			
5	COAL FACE	25	15	25.6	15.9	25.8	15.3			
6	HAUL ROADS		10		7.9		8.1			
7	PERMANENT PATHS FOR USE OF PERSONS		10		8.5		8.3			
8	PUMPING STATION-CENTRAL SUMP		40		33.9		34.3			
	PUMPING STATION- WEST SUMP		40		35.7		35.2			
	PUMPING STATION- COAL FACE SUMP		40		34.8		35.7			
9	REST SHELTER (MINES TIME OFFICE)		30		30.7		31.4			
10	FIRST-AID-STATION (MINES)		30		31.2		30.3			
11	SUB-STATION (MAIN)	50	100	54.8	103.2	55.3	102.1			
	SUB-STATION (MINES)	50	100	40.5	90.1	41.2	89.8			
12- CHP	CHP-FIRST-AID STATION		50		NA		NA			
	CHP-SUB-STATION	50	100	51.6	101.5	52.4	102.3			
	CHP-WORK SHOP	50	100	NA	NA	NA	NA			
	CHP-REST SHELTER		30		15.1		14.1			
	CHP-COAL STOCK YARD	15	15	15.7	15.9	15.5	16.1			
	CHP-HAND PICKING POINTS		50		33.7		34.8			
	CHP-MANUAL WORKING ZONE	25	15	16.1	14.2	15.9	13.8			
	CHP-DRIVE HEAD OF CONVEYORS		40		32.9		33.8			
	CHP-PLACE OF CRUSHING		40		33.8		34.9			
	CHP-ALONG CONVEYOR-B2		20		16.1		15.8			
	CHP-ALONG CONVEYOR-B4		20		16.5		16.7			
	CHP-ALONG CONVEYOR-D2		20		16.9		17.9			
	CHP-ALONG CONVEYOR-D4		20		16.8		16.9			
	CHP-TAIL END OF CONVEYOR-B5		40		34.8		35.4			
CHP-TAIL END OF CONVEYOR-D5		40		35.9		36.1				
CHP-TRANSFER POINT-B3		40		35.5		35.1				
CHP-TRANSFER POINT-D3		40		35.1		34.6				
13- FC	FC-FIRST-AID STATION		50		53.4		52.3			
	FC-SUB-STATION	50	100	51.4	101.8	52.4	102.5			
	FC-WORK SHOP	50	100	NA	NA	NA	NA			
	FC-REST SHELTER		30		26.4		25.7			
	FC-COAL STOCK YARD	15	15	15.4	15.9	15.8	16.1			
	FC-HAND PICKING POINTS		50		24.9		25.6			
	FC-OPERATORS CABIN-1		50		27.8		28.7			
	FC-OPERATORS CABIN-2		50		28.4		29.5			
	FC-OPERATORS CABIN-3		50		31.4		32.2			
	FC-OPERATORS CABIN-4		50		36.8		38.7			
	FC-DRIVE HEAD OF CONVEYOR-1		40		35.2		34.5			
	FC-DRIVE HEAD OF CONVEYOR-2		40		30.1		29.8			
	FC-DRIVE HEAD OF CONVEYOR-3		40		27.9		28.1			
	FC-DRIVE HEAD OF CONVEYOR-4		40		27.6		28.5			
	FC-PLACE OF CRUSHING-1		40		28.5		29.6			
	FC-PLACE OF CRUSHING-2		40		30.8		31.4			
	FC-PLACE OF CRUSHING-3		40		30.7		30.2			

	FC-PLACE OF CRUSHING-4		40		28.7		29.2		
	FC-ALONG CONVEYOR-1		20		16.4		16.1		
	FC-ALONG CONVEYOR-2		20		15.7		15.5		
	FC-ALONG CONVEYOR-3		20		15.3		15.1		
	FC-ALONG CONVEYOR-4		20		15.1		14.9		
	FC-TAIL END OF CONVEYOR-1		40		24.7		24.1		
	FC-TAIL END OF CONVEYOR-2		40		24.3		24.8		
	FC-TAIL END OF CONVEYOR-2		40		24.6		23.2		
	FC-TAIL END OF CONVEYOR-3		40		23.9		23.6		
	FC-TAIL END OF CONVEYOR-4		40		23.9		23.6		
	FC-CHUTE OPENING-1				19.1	35.2	18.4	36.1	
	FC-CHUTE OPENING-2				22.3	34.8	21.3	35.5	
	FC-CHUTE OPENING-2				25.1	35.9	24.9	36.8	
	FC-CHUTE OPENING-3				24.9	36.7	24.3	37.6	
	FC-CHUTE OPENING-4				24.9	36.7	24.3	37.6	
14	WORK SHOP-50 Tc DUMPER	50	100	54.1	90.8	53.2	91.2		
	WORK SHOP-DOZER	50	100	51.7	93.1	51.4	92.5		
	WORK SHOP-AUX	50	100	44.2	86.1	43.4	85.6		
	PARKING YARD - DUMPER		50		53.8		54.1		
	PARKING YARD - DRILL		50		53.2		54.7		

[Signature]
15/3/21
Electrical Supervisor
Jagannath Colliery.

[Signature]
15/3/21
Electrical Supervisor
Jagannath Colliery

[Signature]
15-03-21
SR. OVERMAN
Jagannath Colliery

[Signature]
15-03-21
Electrical Safety Officer
Jagannath Colliery

[Signature]
15/3/21
Safety Officer
Jagannath Colliery

[Signature]
15/3/21
Project Manager.
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

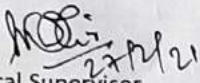
ILLUMINATION SURVEY ON DTD: 26-02-21 & 27-02-21 OF JAGANNATH COLLIERY, JAGANNATH AREA/MCL

INSPECTION TEAM

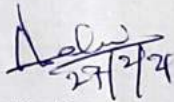
- (1) SAFETY OFFICER:-----Sri A.K. Das, Sr. Mgr.(Min)
- (2) ELECTRICAL SAFETY OFFICER:-----Sri Ajaya Ku. Sahoo, Mgr.(E&M)
- (3) ELECTRICAL SUPERVISOR (1) ----- Sri SrinibashKhuntia, F.M.(E&M)
- (4) ELECTRICAL SUPERVISOR(2):-----Sri P. C. Dalei, A. F.M. (E&M)
- (5) SR. OVERMAN ----- Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (if Any)	REMARKS
		V	H	CURRENT READING		PREVIOUS READING				
				V	H	V	H			
1	EXCV-459	25	15	28.3	17.5	29.2	18.7			
	EXCV-534	25	15	35.6	20.8	39.1	22.9			
	EXCV-1200-D-ANANTA	25	15	23.7	15.1	23.1	15.8			
	EXCV-1000-D-FRONT	25	15	23.1	13.7	22.2	13.5			
	EXCV-1000-D-BACK	25	15	17.9	13.2	18.1	12.7			
	OPERATORS CABIN-EXCV-459		50		51.1		50.2			
	OPERATORS CABIN-EXCV-534		50		50.9		51.4			
	OPERATORS CABIN-EXCV-1200-D-ANANTA		50		49.4		48.6			
	OPERATORS CABIN-EXCV-1000-D-FRONT		50		50.2		47.1			
	OPERATORS CABIN-EXCV-1000-D-BACK		50		48.4		47.2			
2	AREA OF DRILLING RIG WORKS	25		22.9		23.8				
3	AT DRILL HOLES		15		NA		NA			
4	OB DUMP	15	15	16.3	17.1	17.9	13.2			
5	COAL FACE	25	15	25.8	15.3	26.8	14.7			
6	HAUL ROADS		10		8.1		7.9			
7	PERMANENT PATHS FOR USE OF PERSONS		10		8.3		8.5			
8	PUMPING STATION-CENTRAL SUMP		40		34.3		35.7			
	PUMPING STATION- WEST SUMP		40		35.2		36.1			
	PUMPING STATION- COAL FACE SUMP		40		35.7		37.4			
9	REST SHELTER (MINES TIME OFFICE)		30		31.4		33.9			
10	FIRST-AID-STATION (MINES)		30		30.3		31.2			
11	SUB-STATION (MAIN)	50	100	55.3	102.1	54.1	100.6			
	SUB-STATION (MINES)	50	100	41.2	89.8	40.5	91.2			
12- CHP	CHP-FIRST-AID STATION		50		NA		NA			
	CHP-SUB-STATION	50	100	52.4	102.3	51.8	101.2			
	CHP-WORK SHOP	50	100	NA	NA	NA	NA			
	CHP-REST SHELTOR		30		14.1		13.2			
	CHP-COAL STOCK YARD	15	15	15.5	16.1	15.4	15.5			
	CHP-HAND PICKING POINTS		50		34.8		35.4			
	CHP-MANUAL WORKING ZONE	25	15	15.9	13.8	16.9	14.4			
	CHP-DRIVE HEAD OF CONVEYORS		40		33.8		34.3			
	CHP-PLACE OF CRUSHING		40		34.9		34.6			
	CHP-ALONG CONVEYOR-B2		20		15.8		16.9			
	CHP-ALONG CONVEYOR-B4		20		16.7		17.8			
	CHP-ALONG CONVEYOR-D2		20		17.9		18.5			
	CHP-ALONG CONVEYOR-D4		20		16.9		18.1			
	CHP-TAIL END OF CONVEYOR-B5		40		35.4		36.1			
	CHP-TAIL END OF CONVEYOR-D5		40		36.1		35.4			
	CHP-TRANSFER POINT-B3		40		35.1		35.7			
	CHP-TRANSFER POINT-D3		40		34.6		35.2			
13- FC	FC-FIRST-AID STATION		50		52.3		50.8			
	FC-SUB-STATION	50	100	52.4	102.5	51.6	103.1			
	FC-WORK SHOP	50	100	NA	NA	NA	NA			
	FC-REST SHELTOR		30		25.7		27.6			
	FC-COAL STOCK YARD	15	15	15.8	16.1	15.5	15.7			
	FC-HAND PICKING POINTS		50		25.6		26.8			
	FC-OPERATORS CABIN-1		50		28.7		29.6			
	FC-OPERATORS CABIN-2		50		29.5		31.2			
	FC-OPERATORS CABIN-3		50		32.2		34.4			
	FC-OPERATORS CABIN-4		50		38.7		40.4			
	FC-DRIVE HEAD OF CONVEYOR-1		40		34.5		35.1			
	FC-DRIVE HEAD OF CONVEYOR-2		40		29.8		30.9			
	FC-DRIVE HEAD OF CONVEYOR-3		40		28.1		29.1			
	FC-DRIVE HEAD OF CONVEYOR-4		40		28.5		29.2			
	FC-PLACE OF CRUSHING-1		40		29.6		30.3			
	FC-PLACE OF CRUSHING-2		40		31.4		30.1			
	FC-PLACE OF CRUSHING-3		40		30.2		29.1			

	FC-PLACE OF CRUSHING-4		40		29.2		28.5		
	FC-ALONG CONVEYOR-1		20		16.1		15.3		
	FC-ALONG CONVEYOR-2		20		15.5		15.9		
	FC-ALONG CONVEYOR-3		20		15.1		15.5		
	FC-ALONG CONVEYOR-4		20		14.9		15.8		
	FC-TAIL END OF CONVEYOR-1		40		24.1		23.7		
	FC-TAIL END OF CONVEYOR-2		40		24.8		25.1		
	FC-TAIL END OF CONVEYOR-3		40		23.2		22.9		
	FC-TAIL END OF CONVEYOR-4		40		23.6		23.2		
	FC-CHUTE OPENING-1			18.4	36.1	18.7	35.9		
	FC-CHUTE OPENING-2			21.3	35.5	20.2	36.8		
	FC-CHUTE OPENING-3			24.9	36.8	25.1	37.8		
	FC-CHUTE OPENING-4			24.3	37.6	24.3	38.6		
14	WORK SHOP-50 Te DUMPER	50	100	53.2	91.2	54.1	90.1		
	WORK SHOP-DOZER	50	100	51.4	92.5	50.8	90.3		
	WORK SHOP-AUX	50	100	43.4	85.6	42.6	84.1		
	PARKING YARD - DUMPER				54.1		53.7		
	PARKING YARD - DRILL				54.7		53.1		


27/02/21

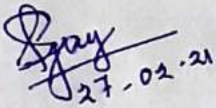
Electrical Supervisor
Jagannath Colliery.


27/2/21

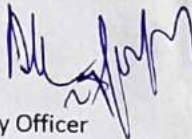
Electrical Supervisor
Jagannath Colliery


27-2-21

SR. OVERMAN
Jagannath Colliery


27-02-21

Electrical Safety Officer
Jagannath Colliery



Safety Officer
Jagannath Colliery


27/2/21

Project Manager.
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

	FC-PLACE OF CRUSHING-4		40		28.5		28.4		
	FC-ALONG CONVEYOR-1		20		15.3		15.8		
	FC-ALONG CONVEYOR-2		20		15.9		16.1		
	FC-ALONG CONVEYOR-3		20		15.5		15.9		
	FC-ALONG CONVEYOR-4		20		15.8		16.3		
	FC-TAIL END OF CONVEYOR-1		40		23.7		23.4		
	FC-TAIL END OF CONVEYOR-2		40		25.1		24.2		
	FC-TAIL END OF CONVEYOR-3		40		22.9		23.1		
	FC-TAIL END OF CONVEYOR-4		40		23.2		22.6		
	FC-CHUTE OPENING-1			18.7	35.9	18.9	36.3		
	FC-CHUTE OPENING-2			20.2	36.8	19.1	37.2		
	FC-CHUTE OPENING-3			25.1	37.8	24.3	38.8		
	FC-CHUTE OPENING-4			24.3	38.6	24.1	39.2		
14	WORK SHOP-50 Te DUMPER	50	100	54.1	90.1	55.1	89.5		
	WORK SHOP-DOZER	50	100	50.8	90.3	50.4	90.4		
	WORK SHOP-AUX	50	100	42.6	84.1	43	83.2		
	PARKING YARD - DUMPER		50		53.7		53.4		
	PARKING YARD - DRILL		50		53.1		52.8		

MCC
15/2/2021

Electrical Supervisor
Jagannath Colliery.

M. Srinivas
15/2/21

Electrical Supervisor
Jagannath Colliery

S. Overman
15/2/21

SR. OVERMAN
Jagannath Colliery

S. Prasad
15-02-21

Electrical Safety Officer
Jagannath Colliery

M. Srinivas
15/2/21

Safety Officer
Jagannath Colliery

P. Srinivas
15/2/21

Project Manager
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

DATE:- 30-07-24

REF NO:- P0211030004/KILLUMINATION/2011/101

DATE:- 15-02-24


ILLUMINATION SURVEY ON DTD: 13-02-21 & 15-02-21 OF JAGANNATH COLLIERY, JAGANNATH AREA/MCL

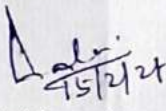
INSPECTION TEAM

- (1) SAFETY OFFICER: Sri A. K. Das, Sr. Mgr. (Min)
 (2) ELECTRICAL SAFETY OFFICER: Sri Ajaya Ku. Sahoo, Mgr. (E&M)
 (3) ELECTRICAL SUPERVISOR (1): Sri Srinibash Khuntia, F.M. (E&M)
 (4) ELECTRICAL SUPERVISOR (2): Sri P. C. Dalei, A. F.M. (E&M)
 (5) SR. OVERMAN: Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

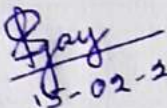
SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (If Any)	REMARKS
		V	H	CURRENT READING		PREVIOUS READING				
				V	H	V	H			
1	EXCV-459	25	15	29.2	18.7	31	20.6			
	EXCV-534	25	15	39.1	22.9	41	23			
	EXCV-1200-D-ANANTA	25	15	23.1	15.8	22	16			
	EXCV-1000-D-FRONT	25	15	22.2	13.5	21.3	13.1			
	EXCV-1000-D-BACK	25	15	18.1	12.7	17.9	13.2			
	OPERATORS CABIN-EXCV-459			50.2		51.2				
	OPERATORS CABIN-EXCV-534			50		51.4				
	OPERATORS CABIN-EXCV-1200-D-ANANTA			50		48.6				
	OPERATORS CABIN-EXCV-1000-D-FRONT			50		47.1				
OPERATORS CABIN-EXCV-1000-D-BACK			50		47.2					
2	AREA OF DRILLING RIG WORKS	25		23.8		24.3				
3	AT DRILL HOLES		15		NA		NA			
4	OB DUMP	15	15	17.9	132.5	18.3	13.3			
5	COAL FACE	25	15	26.8	14.7	27.1	14.2			
6	HAUL ROADS		10		7.0		8.1			
7	PERMANENT PATHS FOR USE OF PERSONS		10		8.5		8.3			
8	PUMPING STATION-CENTRAL SUMP		40		35.7		36.8			
	PUMPING STATION- WEST SUMP		40		36.1		35.4			
	PUMPING STATION- COAL FACE SUMP		40		37.4		37.2			
9	REST SHELTER (MINES TIME OFFICE)		30		33.9		34.3			
10	FIRST-AID-STATION (MINES)		30		31.2		30.1			
11	SUB-STATION (MAIN)	50	100	54.1	100.6	53.4	101.2			
	SUB-STATION (MINES)	50	100	40.5	91.2	41.4	90.5			
12- CHP	CHP-FIRST-AID STATION		50		NA		NA			
	CHP-SUB-STATION	50	100	51.8	101.2	52.9	100.2			
	CHP-WORK SHOP	50	100	NA	NA	NA	NA			
	CHP-REST SHELTER		30		132.1		12.9			
	CHP-COAL STOCK YARD	15	15	15.4	15.5	16.4	15.9			
	CHP-HAND PICKING POINTS		50		35.4		36.5			
	CHP-MANUAL WORKING ZONE	25	15	16.9	14.4	17.2	14.1			
	CHP-DRIVE HEAD OF CONVEYORS		40		34.3		35.1			
	CHP-PLACE OF CRUSHING		40		34.6		35.5			
	CHP-ALONG CONVEYOR-B2		20		16.9		17.1			
	CHP-ALONG CONVEYOR-B4		20		17.8		18.4			
	CHP-ALONG CONVEYOR-D2		20		18.5		18.3			
	CHP-ALONG CONVEYOR-D4		20		18.1		17.9			
	CHP-TAIL END OF CONVEYOR-B5		40		36.1		37.3			
	CHP-TAIL END OF CONVEYOR-D5		40		35.4		37.5			
	CHP-TRANSFER POINT-B3		40		35.7		36.6			
	CHP-TRANSFER POINT-D3		40		35.2		36.1			
13- FC	FC-FIRST-AID STATION		50		50.8		51.4			
	FC-SUB-STATION	50	100	51.6	103.1	52.3	102.5			
	FC-WORK SHOP	50	100	NA	NA	NA	NA			
	FC-REST SHELTER		30		27.6		28.5			
	FC-COAL STOCK YARD	15	15	15.5	15.7	15.9	16.2			
	FC-HAND PICKING POINTS		50		26.8		27.4			
	FC-OPERATORS CABIN-1		50		29.6		34.1			
	FC-OPERATORS CABIN-2		50		31.2		33.7			
	FC-OPERATORS CABIN-3		50		34.4		35.8			
	FC-OPERATORS CABIN-4		50		40.4		40.1			
	FC-DRIVE HEAD OF CONVEYOR-1		40		35.1		34.3			
	FC-DRIVE HEAD OF CONVEYOR-2		40		30.9		31.2			
	FC-DRIVE HEAD OF CONVEYOR-3		40		29.1		28.9			
	FC-DRIVE HEAD OF CONVEYOR-4		40		29.2		28.5			
	FC-PLACE OF CRUSHING-1		40		30.3		30.1			
	FC-PLACE OF CRUSHING-2		40		30.1		29.2			
	FC-PLACE OF CRUSHING-3		40		29.1		29.8			

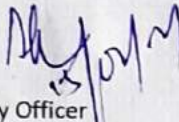
	FC-PLACE OF CRUSHING-4		40		28.5		28.4		
	FC-ALONG CONVEYOR-1		20		15.3		15.8		
	FC-ALONG CONVEYOR-2		20		15.9		16.1		
	FC-ALONG CONVEYOR-3		20		15.5		15.9		
	FC-ALONG CONVEYOR-4		20		15.8		16.3		
	FC-TAIL END OF CONVEYOR-1		40		23.7		23.4		
	FC-TAIL END OF CONVEYOR-2		40		25.1		24.2		
	FC-TAIL END OF CONVEYOR-3		40		22.9		23.1		
	FC-TAIL END OF CONVEYOR-4		40		23.2		22.6		
	FC-CHUTE OPENING-1			18.7	35.9	18.9	36.3		
	FC-CHUTE OPENING-2			20.2	36.8	19.1	37.2		
	FC-CHUTE OPENING-3			25.1	37.8	24.3	38.8		
	FC-CHUTE OPENING-4			24.3	38.6	24.1	39.2		
14	WORK SHOP-50 Te DUMPER	50	100	54.1	90.1	55.1	89.5		
	WORK SHOP-DOZER	50	100	50.6	90.3	50.4	90.4		
	WORK SHOP-AUX	50	100	42.6	84.1	43	83.2		
	PARKING YARD - DUMPER		50		53.7		53.4		
	PARKING YARD - DRILL		50		53.1		52.8		


15/2/2021
Electrical Supervisor
Jagannath Colliery.


15/2/21
Electrical Supervisor
Jagannath Colliery


15-02-21
SR. OVERMAN
Jagannath Colliery


15-02-21
Electrical Safety Officer
Jagannath Colliery


15/02/21
Safety Officer
Jagannath Colliery


15/2/21
Project Manager.
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

ILLUMINATION SURVEY ON DTD: 13-02-21 & 15-02-21 OF JAGANNATH COLLIERY, JAGANNATH AREA/MCL.

INSPECTION TEAM

- (1) SAFETY OFFICER:-----Sri A.K. Das, Sr. Mgr. (Min)
 (2) ELECTRICAL SAFETY OFFICER:-----Sri Ajaya Ku. Sahoo, Mgr. (E&M)
 (3) ELECTRICAL SUPERVISOR (1) -----Sri SrinibashKhuntia, F.M. (E&M)
 (4) ELECTRICAL SUPERVISOR (2):-----Sri P. C. Dalei, A. F.M. (E&M)
 (5) SR. OVERMAN -----Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (If Any)	REMARKS
		V	H	CURRENT READING		PREVIOUS READING				
				V	H	V	H			
1	EXCV-459	25	15	29.2	18.7	31	20.6			
	EXCV-534	25	15	39.1	22.9	41	23			
	EXCV-1200-D-ANANTA	25	15	23.1	15.8	22	16			
	EXCV-1000-D-FRONT	25	15	22.2	13.5	21.3	13.1			
	EXCV-1000-D-BACK	25	15	18.1	12.7	17.9	13.2			
	OPERATORS CABIN-EXCV-459		50		50.2		51.2			
	OPERATORS CABIN-EXCV-534		50		51.4		53.1			
	OPERATORS CABIN-EXCV-1200-D-ANANTA		50		48.6		49.2			
	OPERATORS CABIN-EXCV-1000-D-FRONT		50		47.1		46.5			
OPERATORS CABIN-EXCV-1000-D-BACK		50		47.2		47.5				
2	AREA OF DRILLING RIG WORKS	25		23.8		24.3				
3	AT DRILL HOLES		15		NA		NA			
4	OB DUMP	15	15	17.9	132.5	18.3	13.3			
5	COAL FACE	25	15	26.8	14.7	27.1	14.2			
6	HAUL ROADS		10		7.0		8.1			
7	PERMANENT PATHS FOR USE OF PERSONS		10		8.5		8.3			
8	PUMPING STATION-CENTRAL SUMP		40		35.7		36.8			
	PUMPING STATION- WEST SUMP		40		36.1		35.4			
	PUMPING STATION- COAL FACE SUMP		40		37.4		37.2			
9	REST SHELTER (MINES TIME OFFICE)		30		33.9		34.3			
10	FIRST-AID-STATION (MINES)		30		31.2		30.1			
11	SUB-STATION (MAIN)	50	100	54.1	100.6	53.4	101.2			
	SUB-STATION (MINES)	50	100	40.5	91.2	41.4	90.5			
17- CHP	CHP-FIRST-AID STATION		50		NA		NA			
	CHP-SUB-STATION	50	100	51.8	101.2	52.9	100.2			
	CHP-WORK SHOP	50	100	NA	NA	NA	NA			
	CHP-REST SHELTER		30		132.1		12.9			
	CHP-COAL STOCK YARD	15	15	15.4	15.5	16.4	15.9			
	CHP-HAND PICKING POINTS		50		35.4		36.5			
	CHP-MANUAL WORKING ZONE	25	15	16.9	14.4	17.2	14.1			
	CHP-DRIVE HEAD OF CONVEYORS		40		34.3		35.1			
	CHP-PLACE OF CRUSHING		40		34.6		35.5			
	CHP-ALONG CONVEYOR-B2		20		16.9		17.1			
	CHP-ALONG CONVEYOR-B4		20		17.8		18.4			
	CHP-ALONG CONVEYOR-D2		20		18.5		18.3			
	CHP-ALONG CONVEYOR-D4		20		18.1		17.9			
	CHP-TAIL END OF CONVEYOR-B5		40		36.1		37.3			
	CHP-TAIL END OF CONVEYOR-D5		40		35.4		37.5			
	CHP-TRANSFER POINT-B3		40		35.7		36.6			
	CHP-TRANSFER POINT-D3		40		35.2		36.1			
13- FC	FC-FIRST-AID STATION		50		50.8		51.4			
	FC-SUB-STATION	50	100	51.6	103.1	52.3	102.5			
	FC-WORK SHOP	50	100	NA	NA	NA	NA			
	FC-REST SHELTER		30		27.6		28.5			
	FC-COAL STOCK YARD	15	15	15.5	15.7	15.9	16.2			
	FC-HAND PICKING POINTS		50		26.8		27.4			
	FC-OPERATORS CABIN-1		50		29.6		34.1			
	FC-OPERATORS CABIN-2		50		31.2		33.7			
	FC-OPERATORS CABIN-3		50		34.4		35.8			
	FC-OPERATORS CABIN-4		50		40.4		40.1			
	FC-DRIVE HEAD OF CONVEYOR-1		40		35.1		34.3			
	FC-DRIVE HEAD OF CONVEYOR-2		40		30.9		31.2			
	FC-DRIVE HEAD OF CONVEYOR-3		40		29.1		28.9			
	FC-DRIVE HEAD OF CONVEYOR-4		40		29.2		28.5			
	FC-PLACE OF CRUSHING-1		40		30.3		30.1			
	FC-PLACE OF CRUSHING-2		40		30.1		29.2			
	FC-PLACE OF CRUSHING-3		40		29.1		29.8			

	FC-PLACE OF CRUSHING-4		40	28.5	28.4		
	FC-ALONG CONVEYOR-1		20	15.3	15.8		
	FC-ALONG CONVEYOR-2		20	15.9	16.1		
	FC-ALONG CONVEYOR-3		20	15.5	15.9		
	FC-ALONG CONVEYOR-4		20	15.8	16.3		
	FC-TAIL END OF CONVEYOR-1		40	23.7	23.4		
	FC-TAIL END OF CONVEYOR-2		40	25.1	24.2		
	FC-TAIL END OF CONVEYOR-3		40	22.9	23.1		
	FC-TAIL END OF CONVEYOR-4		40	23.2	22.6		
	FC-CHUTE OPENING-1			18.7	35.9	18.9	36.3
	FC-CHUTE OPENING-2			20.2	36.8	19.1	37.2
	FC-CHUTE OPENING-3			25.1	37.8	24.3	38.8
	FC-CHUTE OPENING-4			24.3	38.6	24.1	39.2
14	WORK SHOP-50 Te DUMPER	50	100	54.1	90.1	55.1	89.5
	WORK SHOP-DGZER	50	100	50.8	90.3	50.4	90.4
	WORK SHOP-AUX	50	100	42.6	84.1	43	83.2
	PARKING YARD - DUMPER		50		53.7		53.4
	PARKING YARD - DRILL		50		53.1		52.8

MCC
15/2/2021
Electrical Supervisor
Jagannath Colliery.

A. Lalani
15/02/21
Electrical Supervisor
Jagannath Colliery

S. Overman
15/02/21
SR. OVERMAN
Jagannath Colliery

S. Jay
15-02-21
Electrical Safety Officer
Jagannath Colliery

M. S. M
15/02/21
Safety Officer
Jagannath Colliery

P. S. M
15/2/21
Project Mahager.
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

ILLUMINATION SURVEY ON DTD: 29-01-21 & 30-01-21 OF JAGANNATH COLLIERY, JAGANNATH AREA/MCL.

INSPECTION TEAM

- (1)SAFETY OFFICER:-----Sri A.K. Das, Sr. Mgr.(Min)
 (2) ELECTRICAL SAFETY OFFICER:-----Sri Ajaya Ku. Sahoo, Mgr.(E&M)
 (3)ELECTRICAL SUPERVISOR (1) -----Sri Srinibash Khuntia, F.M.(E&M)
 (4)ELECTRICAL SUPERVISOR(2):-----Sri P. C. Dalei, A. F.M. (E&M)
 (5)SR. OVERMAN-----Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (If Any)	REMARKS
		V	H	CURRENT READING		PREVIOUS READING				
				V	H	V	H			
1	EXCV-459	25	15	31	20.6	16.9	14.1			
	EXCV-534	25	15	41	23	15.7	13.8			
	EXCV-1200-D-ANANTA	25	15	22	16	17.3	12.4			
	EXCV-1000-D-FRONT	25	15	21.3	13.1	16.1	12.5			
	EXCV-1000-D-BACK	25	15	17.9	13.2	17.1	13.8			
	OPERATORS CABIN-EXCV-459		50		51.2		43.3			
	OPERATORS CABIN-EXCV-534		50		53.1		45.2			
	OPERATORS CABIN-EXCV-1200-D-ANANTA		50		49.2		47.8			
	OPERATORS CABIN-EXCV-1000-D-FRONT		50		46.5		48.5			
OPERATORS CABIN-EXCV-1000-D-BACK		50		47.5		47.1				
2	AREA OF DRILLING RIG WORKS	25		24.3		23.4				
3	AT DRILL HOLES		15		NA		NA			
4	OB DUMP	15	15	18.3	13.3	13.2	12.2			
5	COAL FACE	25	15	27.1	14.2	16.7	12.2			
6	HAUL ROADS		10		8.1		7.9			
7	PERMANENT PATHS FOR USE OF PERSONS		10		8.3		8.4			
8	PUMPING STATION-CENTRAL SUMP		40		36.8		37.9			
	PUMPING STATION- WEST SUMP		40		35.4		38.1			
	PUMPING STATION- COAL FACE SUMP		40		37.2		35.5			
9	REST SHELTER (MINES TIME OFFICE)		30		34.3		33.5			
10	FIRST-AID-STATION (MINES)		30		30.1		29.7			
11	SUB-STATION (MAIN)	50	100	53.4	101.2	52.9	100.5			
	SUB-STATION (MINES)	50	100	41.4	90.5	40.1	89.5			
12- CHP	CHP-FIRST-AID STATION		50		NA		NA			
	CHP-SUB-STATION	50	100	52.9	100.2	53.8	100.5			
	CHP-WORK SHOP	50	100	NA	NA	NA	NA			
	CHP-REST SHELTER		30		12.9		13.2			
	CHP-COAL STOCK YARD	15	15	16.4	15.9	15.4	15.2			
	CHP-HAND PICKING POINTS		50		36.5		36.9			
	CHP-MANUAL WORKING ZONE	25	15	17.2	14.1	16.1	13.9			
	CHP-DRIVE HEAD OF CONVEYORS		40		35.1		34.9			
	CHP-PLACE OF CRUSHING		40		35.5		35.2			
	CHP-ALONG CONVEYOR-B2		20		17.1		17.4			
	CHP-ALONG CONVEYOR-B4		20		18.4		18.9			
	CHP-ALONG CONVEYOR-D2		20		18.3		17.6			
	CHP-ALONG CONVEYOR-D4		20		17.9		18.2			
	CHP-TAIL END OF CONVEYOR-B5		40		37.3		36.9			
CHP-TAIL END OF CONVEYOR-D5		40		37.5		37.1				
CHP-TRANSFER POINT-B3		40		36.6		37.8				
CHP-TRANSFER POINT-D3		40		36.1		35.4				
13- FC	FC-FIRST-AID STATION		50		51.4		52.8			
	FC-SUB-STATION	50	100	52.3	102.5	51.9	101.2			
	FC-WORK SHOP	50	100	NA	NA	NA	NA			
	FC-REST SHELTER		30		28.5		26.9			
	FC-COAL STOCK YARD	15	15	15.9	16.2	15.1	15.3			
	FC-HAND PICKING POINTS		50		27.4		28.2			
	FC-OPERATORS CABIN-1		50		34.1		28.8			
	FC-OPERATORS CABIN-2		50		33.7		30.5			
	FC-OPERATORS CABIN-3		50		35.8		37.9			
	FC-OPERATORS CABIN-4		50		40.1		39.8			
	FC-DRIVE HEAD OF CONVEYOR-1		40		34.3		33.1			
	FC-DRIVE HEAD OF CONVEYOR-2		40		31.2		30.7			
	FC-DRIVE HEAD OF CONVEYOR-3		40		28.9		26.5			
	FC-DRIVE HEAD OF CONVEYOR-4		40		28.5		25.9			
	FC-PLACE OF CRUSHING-1		40		30.1		26.1			
	FC-PLACE OF CRUSHING-2		40		29.2		25.2			
	FC-PLACE OF CRUSHING-3		40		29.8		25.3			

	FC-PLANT OF CRUSHING-4		40		28.4		24.6		
	FC-ALONG CONVEYOR-1		20		15.8		16.1		
	FC-ALONG CONVEYOR-2		20		16.1		15.8		
	FC-ALONG CONVEYOR-3		20		15.9		16.3		
	FC-ALONG CONVEYOR-4		20		16.3		15.9		
	FC-TAIL END OF CONVEYOR-1		40		23.4		21.2		
	FC-TAIL END OF CONVEYOR-2		40		24.2		20.8		
	FC-TAIL END OF CONVEYOR-3		40		23.1		20.9		
	FC-TAIL END OF CONVEYOR-4		40		22.6		21.1		
	FC-CHUTE OPENING-1			14.9	16.3	17.5	14.8		
	FC-CHUTE OPENING-2			19.1	17.2	15.9	17.1		
	FC-CHUTE OPENING-3			24.3	18.8	22.9	19.8		
	FC-CHUTE OPENING-4			24.1	18.2	21.6	17.8		
34	WORK SHOP 50 T4 DUMPER	50	100	55.1	69.3	51.7	73.2		
	WORK SHOP-DIGZER	50	100	50.4	60.4	43.9	63.1		
	WORK SHOP-AUX	50	100	43	61.2	64.8	74.9		
	PARKING YARD - DUMPER		50		53.4		52.8		
	PARKING YARD - DRILL		50		52.8		51.9		

HCC:-
30-1-21

Electrical Supervisor
Jagannath Colliery.

A. S. S. S.
30/1/21

Electrical Supervisor
Jagannath Colliery

S. R. O.
30-1-21

SR. OVERMAN
Jagannath Colliery

S. J. S.
30-01-21

Electrical Safety Officer
Jagannath Colliery

M. S. S.
30/01/21

Safety Officer
Jagannath Colliery

P. S. S.
30/01/21

Project Manager
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File

REF NO:-

DATE:-

ILLUMINATION SURVEY ON DTD: 12-01-21 & 14-01-21 OF

JAGANNATH COLLIERY, JAGANNATH AREA/MCL

INSPECTION TEAM


- (1) SAFETY OFFICER:-----Sri A.K. Das, Sr. Mgr.(Min)
 (2) ELECTRICAL SAFETY OFFICER:-----Sri Ajaya Ku. Sahoo, Mgr.(E&M)
 (3) ELECTRICAL SUPERVISOR (1) -----Sri Srinibash Khuntia, F.M.(E&M)
 (4) ELECTRICAL SUPERVISOR(2):-----Sri P. C. Dalei, A. F. M. (E&M)
 (5) SR. OVERMAN-----Sri Rajesh Kumar Yadav, Sr. O/M, Safety Deptt.

SL NO	LOCATION	STANDARD AS PER DGMS CIRCULAR		ACTUAL				ACTION TAKEN	STATUS: PROCUREMENT ACTION (If Any)	REMARKS
		V	H	CURRENT READING		PREVIOUS READING				
				V	H	V	H			
1	EXCV-459	25	15	16.9	14.1	17.4	13.1			
	EXCV-534	25	15	15.7	13.8	15.6	13.9			
	EXCV-1200-D-ANANTA	25	15	17.3	12.4	17.2	12.1			
	EXCV-1000-D-FRONT	25	15	16.1	12.5	16.3	12.3			
	EXCV-1000-D-BACK	25	15	17.1	13.8	16.9	13.7			
	OPERATORS CABIN-EXCV-459		50		43.3		43.1			
	OPERATORS CABIN-EXCV-534		50		45.2		44.9			
	OPERATORS CABIN-EXCV-1200-D-ANANTA		50		47.8		48.7			
	OPERATORS CABIN-EXCV-1000-D-FRONT		50		48.5		48.8			
	OPERATORS CABIN-EXCV-1000-D-BACK		50		47.1		46.7			
2	AREA OF DRILLING RIG WORKS	25		23.4		23.2				
3	AT DRILL HOLES		15		NA		NA			
4	OB DUMP	15	15	13.2	12.2	13.1	12.4			
5	COAL FACE	25	15	16.7	12.2	16.4	11.7			
6	HAUL ROADS		10		7.9		8.1			
7	PERMANENT PATHS FOR USE OF PERSONS		10		8.4		8.3			
8	PUMPING STATION-CENTRAL SUMP		40		37.9		38.7			
	PUMPING STATION- WEST SUMP		40		38.1		37.5			
	PUMPING STATION- COAL FACE SUMP		40		35.5		35.4			
9	REST SHELTER (MINES TIME OFFICE)		30		33.5		33.2			
10	FIRST-AID-STATION (MINES)		30		29.7		30.2			
11	SUB-STATION (MAIN)	50	100	52.9	100.5	54.1	100.2			
	SUB-STATION (MINES)	50	100	40.1	89.5	39.6	90.2			
12- CHP	CHP-FIRST-AID STATION		50		NA		NA			
	CHP-SUB-STATION	50	100	53.8	100.5	54.2	101			
	CHP-WORK SHOP	50	100	NA	NA	NA	NA			
	CHP-REST SHELTER		30		13.2		12.5			
	CHP-COAL STOCK YARD	15	15	15.4	15.2	15.8	15.4			
	CHP-HAND PICKING POINTS		50		36.9		36.2			
	CHP-MANUAL WORKING ZONE	25	15	16.1	13.9	15.9	14.2			
	CHP-DRIVE HEAD OF CONVEYORS		40		34.9		35.2			
	CHP-PLACE OF CRUSHING		40		35.2		34.8			
	CHP-ALONG CONVEYOR-B2		20		17.4		17.6			
	CHP-ALONG CONVEYOR-B4		20		18.9		19.4			
	CHP-ALONG CONVEYOR-D2		20		17.6		18.3			
	CHP-ALONG CONVEYOR-D4		20		18.2		18.7			
	CHP-TAIL END OF CONVEYOR-B5		40		36.9		37.4			
CHP-TAIL END OF CONVEYOR-D5		40		37.1		37.2				
CHP-TRANSFER POINT-B3		40		37.8		38.1				
CHP-TRANSFER POINT-D3		40		35.4		35.1				
13- FC	FC-FIRST-AID STATION		50		52.8		53.4			
	FC-SUB-STATION	50	100	51.9	101.2	52.1	100.5			
	FC-WORK SHOP	50	100	NA	NA	NA	NA			
	FC-REST SHELTER		30		26.9		27.1			
	FC-COAL STOCK YARD	15	15	15.1	15.3	15.2	15.1			
	FC-HAND PICKING POINTS		50		28.2		27.4			
	FC-OPERATORS CABIN-1		50		28.8		29.9			
	FC-OPERATORS CABIN-2		50		30.5		30.2			
	FC-OPERATORS CABIN-3		50		37.9		38.8			
	FC-OPERATORS CABIN-4		50		39.8		41.4			
	FC-DRIVE HEAD OF CONVEYOR-1		40		33.1		32.7			
	FC-DRIVE HEAD OF CONVEYOR-2		40		30.7		30.2			
	FC-DRIVE HEAD OF CONVEYOR-3		40		26.5		26.3			
	FC-DRIVE HEAD OF CONVEYOR-4		40		25.9		25.2			
	FC-PLACE OF CRUSHING-1		40		26.1		25.4			
	FC-PLACE OF CRUSHING-2		40		25.2		24.6			
	FC-PLACE OF CRUSHING-3		40		25.3		25.9			

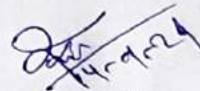
FC-PLACE OF CRUSHING-4		40		24.9		24.8			
FC-ALONG CONVEYOR-1		20		16.1		15.6			
FC-ALONG CONVEYOR-2		20		15.8		16.1			
FC-ALONG CONVEYOR-3		20		16.3		16.2			
FC-ALONG CONVEYOR-4		20		15.9		15.8			
FC-TAIL END OF CONVEYOR-1		40		21.2		20.4			
FC-TAIL END OF CONVEYOR-2		40		20.8		21.2			
FC-TAIL END OF CONVEYOR-3		40		20.9		21.1			
FC-TAIL END OF CONVEYOR-4		40		21.1		21.2			
FC-CHUTE OPENING-1				17.5	34.8	17.3	35.4		
FC-CHUTE OPENING-2				15.9	37.1	15.8	36.9		
FC-CHUTE OPENING-3				22.9	39.8	23.1	40.2		
FC-CHUTE OPENING-4				21.6	41.8	21.4	42.9		
WORK SHOP-50 Te DUMPER	50	100	51.7	73.2	52.4	72.4			
WORK SHOP-DOZER	50	100	43.9	63.1	44.3	62.5			
WORK SHOP-AUX	50	100	64.8	74.9	65.4	75.4			
PARKING YARD - DUMPER		50		52.8		53.4			
PARKING YARD - DRILL		50		51.9		52.3			


14/1/21

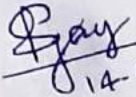
Electrical Supervisor
Jagannath Colliery.


14/01/21

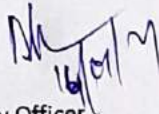
Electrical Supervisor
Jagannath Colliery


14-1-21

SR. OVERMAN
Jagannath Colliery


14-01-21

Electrical Safety Officer
Jagannath Colliery


16/01/21

Safety Officer
Jagannath Colliery


14/1/21

Project Manager.
Jagannath Colliery.

Distribution:-

- (1) The GM(S&R), MCL.
- (2) The Project Officer, JNC.
- (3) The Safety Officer, JNC.
- (4) The Project Engineer(E&M), JNC- with the request to make necessary improvement in illumination.
- (5) File



Corporate Environment Policy 2018



Mahanadi Coalfields Limited

(A Miniratna Subsidiary company of Coal India Limited)

Jagriti Vihar, Burla, Sambalpur-768020, Odisha

CIN No:U10102OR1992GOI003038

Environmental Policy Statement:

Mahanadi Coalfields Limited(MCL) 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.

OBJECTIVES:

Mahanadi Coalfields Limited shall endeavor to:

- 1. Plan & design projects with due consideration to environmental concerns for Sustainable Development.*
- 2. Conduct mining and associated operation in an environmentally responsible manner to comply with applicable laws and other requirements related to environmental aspects.*
- 3. Prevent pollution of surrounding habitation by continuous monitoring and adopting suitable measures for environment protection.*
- 4. Implement Environment Management Plans in all our mines /projects effectively to mitigate pollution, conservation of natural resources and restoration of ecology & biodiversity.*
- 5. Ensure compliance of all applicable Environmental Clearance & Forestry Clearance conditions and other statutory conditions issued by regulatory agencies.*
- 6. Recycling of wastes on the principle of REDUCE, REUSE and RECYCLE.*
- 7. Put special thrusts on efficient energy utilization / renewable energy as a measure to reduce carbon foot-print.*
- 8. Strive for continual improvement in our environmental performances by setting targets, measuring progress and taking corrective action.*
- 9. Taking measures to render productive post mining land use.*
- 10. Implementation of activities applicable to MCL arising out of International Conventions.*
- 11. Create environmental awareness among the employees and the local communities through pro-active communication and training.*

STRATEGIES FOR IMPLEMENTATION OF ENVIRONMENTAL POLICY:

Back Ground:

Coal India Limited subscribes to the view of Sustainable Development. Unless the environment can sustain all the developmental activities, any pursuit of development in isolation can cause irreparable damage to the ecosystem and associated environmental attributes. Keeping this view in mind, Coal India Limited attaches top priority towards sustainable development and approved its 'Corporate Environmental Policy' in December 1995, which was subsequently revised in 2012. However, the present policy is the amendment of the 2012 Policy and is complimentary to the National Environmental Policy, 2006.

This modification in the present policy is the outcome of the experience gained since 2012 keeping in view the modifications / amendments made time to time in environmental policies and additional stipulation notified by MoEF&CC (Ministry of Environment, Forest& Climate Change) and other organisations concerning mine closure, reclamation of degraded land, environmental clearance etc. and also with the objective of revisiting the corporate policy.

This Policy has a vision of Green Mining and mission of 100% compliance of environmental statutes applicable to coal mining industry.

Strategies: Mahanadi Coalfields Limited adopts the strategies appended below for effective implementation:

1. MINE/ PROJECT PLANNING & DESIGN FOR SUSTAINABLE DEVELOPMENT:

- a) Coal being a non-renewal energy source, extraction shall be planned prudently to meet national requirement in a planned way. The projects shall be designed on the principle of Sustainable Development with due consideration to environment, mine closure, safety and aspirations of the stakeholders at the planning& design stage itself with due regard to mine closer plan.
- b) While preparing the Mining plan/project reports, the effort shall be to incorporate latest mining technologies and equipment's with optimal capacity, which are more environment friendly.
- c) All Mining Plan/ project reports will be provided with detailed provisions for ensuring environmental compliances.

2. ENVIRONMENTAL IMPACT ASSESSMENT (EIA) & ENVIRONMENT MANAGEMENT PLAN (EMP)

- a. All mine planning and design shall be environmentally acceptable and operation shall be carried out in such a way as to facilitate the compliance of stipulated environmental standards.
- b. EIA& EMP for all projects shall be formulated as per the approved ToR (Terms of Reference) and public consultations for obtaining Environmental Clearance (EC) from MoEF&CC. Similarly, in the existing projects needing enhancement of production capacities with or without increase in land, change of technology, renewal of lease and change in land use etc. fresh EC is required to be sought as per norms. The projects shall be operated after obtaining Consent to Establish (CTE)/Consent to Operate (CTO) from State Pollution Control Boards (SPCB).
- c. Detailed Mine Closure Plans shall be prepared for all existing and new mines as per the MoC (Ministry of Coal) guidelines.

3. COMPLIANCE OF THE STATUTORY REQUIREMENTS:

The implementation of EMP and fulfillment of all other statutory requirements like conditions of EC, FC and consents to establish & operate, including timely submission of returns to statutory bodies and various agencies, are to be ensured at all levels.

4. MEASURES TO MITIGATE POLLUTION:

a) Air Pollution:

- i) Generation of dust is to be controlled at the source to the possible extent with necessary control measures during drilling, blasting, loading, unloading, CHP transfer points etc.
- ii) Deployment of eco-friendly mining technologies.
- iii) Dust generation is to be minimized along coal / waste transportation routes.
- iv) Mechanized transportation of coal to be encouraged.
- v) Green belt is to be created around the source of dust.

b) Water pollution:

- i) The mine water and other effluent shall be treated to ensure the discharge norms as per statute. The treated effluent shall be utilized to the extent possible with a view to achieve maximum water conservation.

- ii) Oil & grease from the effluent shall be removed by Oil & Grease Traps for proper disposal.

c) Noise / ground vibration:

- i) All measures to minimize noise pollution will be taken including maintenance of HEMM, equipment and provision of PPE where required.
- ii) Suitable controlled blasting techniques shall be followed to reduce ground vibration as well as noise pollution.

d) Land reclamation:

- i) Progressive and concurrent reclamation of mined out areas will be carried out as per approved EIA/EMP and Mine Closure Plan (MCP).
- ii) Slopes of external dumps are the important area to be suitably graded / terraced for effective reclamation and plantation.
- iii) Preservation of top soil is required for future use. Old as well as existing non-active dumps are to be technically and biologically reclaimed.
- iv) Monitoring of reclamation work of all opencast mines will be done through Satellite Surveillance. The outcome shall be put in the websites.

e) Mine closure plans:

Mine Closure Plan (MCP) shall be prepared for each mine. MCP are being delineated in two phases viz. progressive and final mine closure. Appropriate funds are set aside and deposited under a special Escrow fund every year as per MoC guidelines, to be utilized for proper and final mine closure.

For mines closed prior to issuance of MoC guidelines (i.e. 27th August, 2009) suitable action to be taken as per provisions of Mines Act 1952.

f) Mine fire

MCL shall endeavour to reduce occurrence of mine fire and subsidence due to mining activity. Monthly report shall be submitted to top management of the MCL and CIL and Quarterly to company board. Action Plan for mine fire control shall be implemented. Monitoring will be done through Satellite Surveillance/other suitable technology.

g) Monitoring:

- I. All receptors in and around the mining projects shall be monitored regularly to assess the efficacy of the pollution control / mitigation measures within stipulated standards.
- II. Effect of mining on the hydrology of the area will be monitored through measurement of water level and its quality of nearby wells and bore holes provided for this purpose. Conservation of water through rainwater

harvesting shall be taken up.

- III. Area and Unit environmental cells shall have regular interaction with the people in and around the coal mines and other allied units on matters related to environment to take necessary and timely corrective actions.
- V. Environmental initiatives and monitoring through self and third party environment audit shall be conducted for generating useful data for taking corrective actions and mitigation measures as per guidelines.

h) Other measures:

- I. Special emphasis shall be given to undertake R&D related to various facets of coal mine environmental management in collaboration with Central Mine Planning and Design Institute (CMPDI) and other competent institutions.
- II. Besides ensuring statutory compliance, the MCL desires to set high standards and continual improvement.
- III. All mines and establishments of MCL are ISO 9001:2008 ISO 14001:2004 and OHSAS 18001:2007 certified
- IV. CSR and R&R policies of MCL are to be incorporated for better planning and implementation of the socio-economic issues of coal mining areas.
- V. The coal mining environmental issues are complex and require multi-disciplinary approach to address the same. MCL will endeavor to enter into MoUs with expert agencies of repute to assist in environment issues and also help in capacity building of MCL executives.
- VI. MCL conducts periodical medical examination (PME) of its work force on routine basis in compliance of the requirement mining rules and regulation, additional tests will be done as and when required.

5. PRESERVATION OF BIO-DIVERSITY:

- a) This will start from mine planning including technically and biologically reclamation of mined out areas in collaboration with State Forest Departments, Wild Life Divisions, NGOs etc. working in the fields of bio-diversity conservation.
- b) The selection of species for plantation shall be done in consultation with the local community to include the local species and their preferences, if any.

6. COAL BENEFICIATION / COALWASHERIES:

- a) For beneficiation of Runoff Mines (ROM) coal, washeries are being set up in a phased manner as per requirement and statutes.
- b) Slurry Management System (SMS) in all washeries shall be organized to

ensure collection of fines, gainful utilization of rejects viz. power generation in Fluidized Bed Combustion (FBC) plants, selling to brick manufacturers or adopting other environmental friendly disposal options as feasible.

- c) The reject dumps and tailings shall be suitably handled to avoid any contamination.
- d) The effluent from washeries including tailings pond shall be suitably treated and reused to minimize water consumption with zero discharge concept.

7. CONSERVATION AND CLEAN TECHNOLOGY:

- a) R&D projects shall be taken up to promote clean coal technology and improve the existing technologies.
- b) Energy saved is energy produced. Voluntary energy audit to be done for corrective action to reduce carbon footprint.
- c) Clean Development Mechanisms will be explored for reducing emission of Green House Gases by exploration, identification, preparation of projects reports for extraction of methane from Coal Bed, Coal Mine, Abandoned Mine, Ventilation Air, UG Coal Gasification, generation and utilization of renewable energy etc.

8. AWARENESS PROGRAMME:

- a) Publicity to generate awareness through exchange & communication of information, newsletters and periodicals on environment, seminars, workshops, celebration of World Environment Day etc. at MCL HQ, Areas & units to be undertaken. Regular training programs to be organized at various levels to inculcate awareness among employees.
- b) Courses on environmental and forestry laws and Environmental Protection Measures and the Corporate Policy to be organized for project executives for improving knowledge.
- c) MCL to give annual awards for achieving excellence in environment related issues and activities. These awards will be in recognition for implementation of EMP, land reclamation and compliance of statutes, proper maintenance of air & water quality and noise level.

9. WASTE MANAGEMENT:

MCL will undertake appropriate action for safe handling, storage and disposal of solid waste and hazardous waste generated from its industrial set up and colonies as per relevant rules. The biomedical waste generated from hospitals

and dispensaries will be collected and disposed in appropriate facilities created as per statutes. E-waste management and handling of various types of e-waste generated in its operations will be done as per rule.

10. CORPORATE ENVIRONMENT RESPONSIBILITY:

Corporate Environment Responsibility (CER) is mandatory for issuing environmental clearance for all the Greenfield and Brownfield projects as per directives of MoEF & CC with effect from 1st May, 2018 (O.M.No.22-65/2017-IAIII dt. 19.06.2018). Budgetary provisions should be kept for implementation of provisions of CER for all the projects which will be submitted to MoEF & CC for grant of environmental clearance.

11. INCORPORATION OF VIEWS OF STAKEHOLDERS:

MCL will critically examine and incorporate the viewpoints of various stakeholders like PAPs/PAFs, Parliamentary Committees, Standing Sub-Committees, NGOs etc. The parental company CIL being a listed entity with stock exchange, it will also take into consideration the observations/viewpoints of international investors.

12.IMPLEMENTATION OF POLICY:

- i) Manpower:** MCL shall have environmental divisions at decision making & operational levels in its structure. The environment department shall be set up and strengthened at:
 - i) Corporate HQ at Sambalpur
 - ii) Areas / Units / Collieries / Workshops /Washeries/ Other establishments
- ii) Roles and Responsibilities:** The environmental department, set up at company HQs, Areas and Unit levels with appropriate manpower and resources, shall be responsible for implementation of policy, obtaining EC, FC, consent to establish & operate, statutes' requirements and undertaking mitigation measures besides preparation of action plan every year and also to intimate the status of implementation to the management regularly.
- iii) Annual Environment Budget (Revenue &Capital):** The Annual Environment Budget (revenue & capital) shall be prepared based on the action plan including monitoring of various bench marks and the budget utilization. The year wise funds earmarked for environmental protection measures shall be kept in separate accounts with Environmental cost code.

13. FLEXIBILITY TO THE SUBSIDIARY COMPANIES:

CEP 2018 will be applicable for all subsidiaries of CIL. The subsidiary company Boards have been authorized to approve necessary modifications in CEP 2018 with reference to unique conditions prevailing at the concerned subsidiary.

REVIEW OF ENVIRONMENTAL POLICY:

In view of the present fast changing social, economic and environmental scenario, this Policy shall be reviewed every 5 years to incorporate the changes in the legal, technical, environmental, economic and social inputs prevailing at that time. Whenever, there is change in National Environmental Policy or other National / State relevant policies, Acts etc, this Corporate Environmental Policy would be reviewed and suitably revised.

ଜଗନ୍ନାଥ କୋଇଲା ଖଣି ସମ୍ପ୍ରଦାରଣ ପାଇଁ କେନ୍ଦ୍ରୀୟ ମଞ୍ଜୁରୀ

ତାଳଚେର, ୧୪।୯ (ଆପ୍): ଏମ୍ପିଏଲ୍ ଜଗନ୍ନାଥ ଖୋଲା କୋଇଲା ଖଣିର ସମ୍ପ୍ରଦାରଣ ପାଇଁ କେନ୍ଦ୍ର ପରିବେଶ ଓ ଜଙ୍ଗଲ ବିଭାଗ ପକ୍ଷରୁ ମଞ୍ଜୁରୀ ମିଳିଛି । ଏହି ସମ୍ପ୍ରଦାରଣ ପ୍ରକଳ୍ପର ମୂଲ୍ୟ ୪୦୯.୦୮ କୋଟି ଟଙ୍କା । ୫୫୩.୯୪୬ ହେକ୍ଟର ଜମିରେ (୧୨୩.୨ ହେକ୍ଟର ଅତିରିକ୍ତ) ଖଣି କାର୍ଯ୍ୟ କରାଯିବ । ଏହି ସମ୍ପ୍ରଦାରଣ ଖଣି କାର୍ଯ୍ୟରେ ରାଜସ୍ୱ ଗ୍ରାମ ପ୍ରଭାବିତ ହେବ । ୧୮୫ ଜଣ (ଅତିରିକ୍ତ) ସ୍ଥାୟୀ ନିଯୁକ୍ତି ପାଇବେ ବୋଲି ଜଣାପଡ଼ିଛି । ଅପରପକ୍ଷରେ ପରୋକ୍ଷ ଭାବେ ଅନେକ କର୍ମସଂସ୍ଥାନ ପାଇପାରିବେ । ଜଗନ୍ନାଥ ଖଣି ସମ୍ପ୍ରଦାରଣ ପାଇଁ



ପରିବେଶ ମଞ୍ଜୁରୀ ମିଳିବା ପରେ ଏହାର ଉତ୍ପାଦନ କ୍ଷମତା ୬ ମିଲିୟନ୍ ଟନ୍ରୁ ୭.୫ ମିଲିୟନ୍ ଟନ୍କୁ ବୃଦ୍ଧି ପାଇବ । ତେବେ ପର୍ଯ୍ୟାବରଣର ସମସ୍ତ ନିୟମକୁ ପାଳନ ସର୍ତ୍ତରେ ଚଳିତ ମାସ ୯ ତାରିଖ ଦିନ ଏହି କେନ୍ଦ୍ରୀୟ ମଞ୍ଜୁରୀ ମିଳିଥିବା ଜଣାପଡ଼ିଛି । ଜଗନ୍ନାଥ ଖୋଲା କୋଇଲା ଖଣିରୁ ଦୈନିକ ୨୦/୨୫ ହଜାର ଟନ୍ କୋଇଲା

ଉତ୍ପାଦନ ହେଉଥିବା ବେଳେ ଏନ୍ଟିପିସି ପରିଚାଳିତ ତାଳଚେର ଥର୍ମାଲକୁ ୫/୬ ହଜାର ଟନ୍ କୋଇଲା ଯୋଗାଇ ଦିଆଯାଇଥାଏ । ଜମି ଅଭାବରୁ ଏହି ଖଣିରୁ କୋଇଲା ଉତ୍ପାଦନରେ ବାଧା ସୃଷ୍ଟି ହୋଇଥିଲା । ତେବେ ପରିବେଶ ମଞ୍ଜୁରୀ ମିଳିବା ପରେ ଖଣି ଉତ୍ପାଦନରେ ଅଗ୍ରଗତି ହେବ ବୋଲି ଜଣାପଡ଼ିଛି ।

ଢେଙ୍କାନାଳ ବିଧାନ ସଭାକୁ କରୋନା

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ବିଧାନ ସଭାକୁ କରୋନା ଭୀଷଣ ପ୍ରଦାୟ ଦୁଃଖ ଦେଇଛି... ଡେଙ୍କାନାଳ ବିଧାନ ସଭାକୁ କରୋନା ଭୀଷଣ ପ୍ରଦାୟ ଦୁଃଖ ଦେଇଛି...



କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ... ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ...

କୋମାଳୁ ଅଜଣା ବ୍ୟକ୍ତିକ ଶିବ ଉତ୍ସାହ

ବସ୍ତାରେ ବନ୍ଧା ଯାଉଥିଲା ମୃତବସ୍ତୁ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ...



ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ... ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ...

ଗୋଟିଏ ରାତିରେ ଆଖୁଝୁଣିଲେ ମା' - ପୁଅ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ... ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ...

ଅବହେତୁକ ମୁଲିୟ କର୍ମଚାରୀଙ୍କ ମୃତ୍ୟୁ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ... ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ...

ଶାଳ କାଠ ସହ ମିଳିତ କରବତ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ... ଢେଙ୍କାନାଳ ସରକାର କର୍ମଚାରୀଙ୍କୁ କୁରେଣ୍ଡର ଗରଜ ଆମର ସମସ୍ତ କର୍ମଚାରୀ...



ଜିଲ୍ଲାରେ ସର୍ବନିମ୍ନ ହେଉଛି କରୋନା ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି... ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି...



ସିମିନିଳ, ଗବାଣିଳା, ଭୁରୁଗୋ ଢେଙ୍କାନାଳ କଞ୍ଚେନମେଣ୍ଟ କୋର୍ଟ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି... ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି...

ଶାଖା କୋମାଳ ବନ୍ଧ ଭାଙ୍ଗିଲା ବରିଷ୍ଠ ଜଗତିକ ପରିଷଦ ବୈଠକ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି... ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି...

ପର୍ଷତର ଢେଙ୍କାନାଳ କାଠ ଓ ଯନ୍ତ୍ରଣା କରବତ ନିରପେକ୍ଷ ଚଢ଼ତ ଦାବିରେ ଡିଏଫ୍‌ଓଙ୍କ କାର୍ଯ୍ୟାଳୟ ଘେରାଇ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି... ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି...



ଫାକ୍ଟରୀର ପରିଚାଳନା ନିୟମ କଲେ ଉନ୍ନତ ପାଣି ପାଇଁ ହତସତ କୋରିଡ଼ ଯୋଜନା ପରିଚାଳ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି... ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି...

ଜଗନ୍ନାଥ କୋଇଲା ଖଣି ସମ୍ପ୍ରଦାୟ ପାଇଁ କେନ୍ଦ୍ରୀୟ ମାନ୍ୟତା

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି... ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି...

କୋରିଡ଼-୧୯ ନିୟମ ଉଲ୍ଲଙ୍ଘନ ହେଉଥିବାରୁ ଉଦ୍‌ବେଗ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି... ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି...

କାମରେ ଆସୁଛି ଏଟିଏମ୍, ଲୋକେ ହତସତ

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି... ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି...

ପୁଧାମମାଳା କରୁ ସ୍ୱାସ୍ଥ୍ୟ ପାଇବ ଅବହେଳା ବନ୍ଧା ରୋଗର

ଢେଙ୍କାନାଳ, ୧୫.୦୯.୨୦ (ସାଂଘ) : ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି... ଢେଙ୍କାନାଳ ଜିଲ୍ଲାରେ କରୋନା ସଂକ୍ରମଣର ସ୍ଥିତି ଦିନକରେ ୮୦ ଆକ୍ରାନ୍ତ ଚିହ୍ନଟ ହୋଇଛି...



MCL

MAHANADI COALFIELDS LIMITED

ମହାନଦୀ କୋଲଫିଲ୍ଡ୍ସ ଲିମିଟେଡ୍

ମହାନଦୀ କୋଲଫିଲ୍ଡ୍ସ ଲିମିଟେଡ୍

(A subsidiary of Coal India Limited)

Office of the Project Officer, Jagannath Colliery

Jagannath Area, PO:- Balanda, Dist:- Angul, Odisha-759116

Phone:- 06760-260212, 260458, 260321, email: jagannathcolliery@gmail.com

An ISO 9001:2008 & 14001:2004 Certified Project

Ref.No. PO/JNC/Envt./2020/ 3823

Date: 15/09/2020

(Speed Post)

To
The Dy. Director General of Forest(Central) ,
Eastern Regional Office, Moef & CC,
A/3, Chandrashekharpur
Bhubaneswar, Odisha.-751016

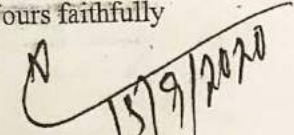
Sub: - Intimation about Expansion of Jagannath Opencast Coal Mining Project from 6.0 MTPA to 7.5 MTPA with increase in mine lease area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Limited located in Angul District of Odisha- For Environmental Clearance-Reg.

Dear Sir,

I am delighted to inform you that the Jagannath Opencast Project of M/s Mahanadi Coalfields Limited has obtained the necessary Environment Clearance from Ministry of Environment, Forest and Climate Change (MoEF&CC) vide F. No. J-11015/177/2015-IA-II(M) , Dated- 09-09-2020.

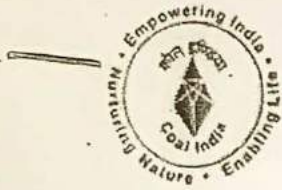
As per the conditions of the above mentioned Environment Clearance a copy of the same is attached herewith for your kind information.

Yours faithfully


Project Officer
Jagannath OCP

Copy for kind information to:

1. General Manager (Envt. & Forest) MCL HQ, Burla.
2. General Manager, Jagannath Area.
3. Area Environment Officer, Jagannath Area.
5. File



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MAHANADI COALFIELDS LIMITED

ମହାନଦୀ କୋଲଫିଲ୍ଡ୍ସ ଲିମିଟେଡ୍

ମହାନଦୀ କୋଲଫିଲ୍ଡ୍ସ ଲିମିଟେଡ୍

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Phone:- 06760-260212, 260458, 260321, email:-jagannathcolliery@gmail.com

An ISO 9001:2008 & 14001:2004 Certified Project

Ref.No. PO/JNC/Envt./2020/ 3820

Date: 15/09/2020
(Speed Post)

To
The Sarapanch
Padmavatipur Gram Panchayat,
Angul, Odisha.

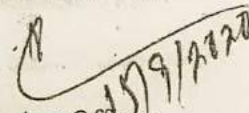
Sub: - Intimation about Expansion of Jagannath Opencast Coal Mining Project from 6.0 MTPA to 7.5 MTPA with increase in mine lease area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Limited located in Angul District of Odisha- For Environmental Clearance-Reg.

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Jagannath OCP

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4. File



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ମହାନଦୀ କୋଲଫିଲ୍ଡ୍ସ ଲିମିଟେଡ

ମହାନଦୀ କୋଲଫିଲ୍ଡ୍ସ ଲିମିଟେଡ୍

(A subsidiary of Coal India Limited)

Office of the Project Officer, Jagannath Colliery

Jagannath Area, PO:- Balanda, Dist:- Angul, Odisha-759116

Phone:- 06760-260212, 260456, 260321, email:- jagannathcolliery@gmail.com

An ISO 9001:2008 & 14001:2004 Certified Project

Ref.No. PO/JNC/Envvt./2020/ 3821

Date: 15/09/2020

(Speed Post)

To
The Sub collector,
Talcher,
Angul, Odisha.

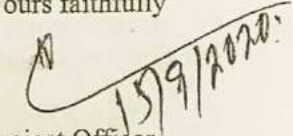
Sub: - Intimation about Expansion of Jagannath Opencast Coal Mining Project from 6.0 MTPA to 7.5 MTPA with increase in mine lease area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Limited located in Angul District of Odisha- For Environmental Clearance-Reg.

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Jagannath OCP

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- 1.General Manager (Envt. & Forest) MCL HQ, Burla.
- 2.General Manager, Jagannath Area.
- 3.Area Environment Officer, Jagannath Area.
- 4.File



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MAHANADI COALFIELDS LIMITED

महानदी कोलफील्ड्स लिमिटेड

ମହାନଦୀ କୋଲଫିଲ୍ଡସ୍ ଲିମିଟେଡ୍

(A subsidiary of Coal India Limited)

Office of the Project Officer, Jagannath Colliery

Jagannath Area, PO:- Balanda, Dist:- Angul, Odisha-759116

Phone:- 06760-260212, 260458, 260321, email:- jagannathcolliery@gmail.com

An ISO 9001:2008 & 14001:2004 Certified Project

Ref.No. PO/JNC/Envt./2020/ 3822

Date: 15/09/2020
(Speed Post)

To
The District Collector,
Angul, Odisha.

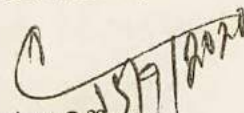
Sub: - Intimation about Expansion of Jagannath Opencast Coal Mining Project from 6.0 MTPA to 7.5 MTPA with increase in mine lease area from 430.736 ha to 553.946 ha of M/s Mahanadi Coalfields Limited located in Angul District of Odisha- For Environmental Clearance-Reg.

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2. General Manager, Jagannath Area.
3. Area Environment Officer, Jagannath Area.
4. File