

# Ambuja Cement

Letter no: ACL/GP-IV-8/Washery/Env/Comp/2019-20/143

Date: 24<sup>th</sup> February, 2020

To,  
The Ministry of Environment, Forests and Climate Change  
Govt. of India, Regional Office, Western Region,  
Kendriya Paryavaran Bhawan, Link Road No.3  
E-5, Ravishnagar Nagar  
Bhopal-462016 (M.P.)

**Sub: Six monthly Environment Clearance Compliance Status Report for Pit head captive wet coal washery (1.8 MTPA in an area of 10.336 ha) of Gare Palma IV/8 Coal Block, located in Tehsil - Garghora (now Tehsil - Tamnar), District - Raigarh, Chhattisgarh of M/s Ambuja Cements Limited - reg.**

Ref: 1. Environment Clearance No. J-11015/76/2010-IA.II (M) dated: 10th June, 2013  
2. Addendum No.1 to the vesting order no. 104/28/2015/NA dated 22.04.2015  
3. EC transferred to M/s Ambuja Cements Limited dated 1st April, 2019

Dear Sir,

The MoEFF&CC issued Environmental Clearance for Pit head captive wet washery (1.8 MTPA in an area of 10.336 ha) of Gare Palma IV/8 Coal Mines on 10th June, 2013 in the name of M/s. Jayaswal Neco Ltd. (Prior allottee). Later on Gare Palma IV/8 Coal Block has been allocated to M/s Ambuja Cements Limited by the Nominated Authority, Ministry of Coal, Government of India vide vesting order No. 104/28/2015/NA dated 22.04.2015 and Addendum No. 1 dated 19.06.2018 to the aforesaid vesting order. Subsequently, the execution of mining lease has been completed for the Coal Block and land acquisition for mining is under process. The EC for Pit head captive wet washery (1.8 MTPA in an area of 10.336 ha) has been transferred in the name of M/s. Ambuja Cements Ltd. on 1st April, 2019. The washery yet not be established & commissioned due to delay in land acquisition.

With reference to the above subject matter, please find enclosed herewith six monthly Environment Clearance Compliance Report for the period from July, 2019 to December, 2019 for the Pit head captive wet coal washery.

**AMBUJA CEMENTS LIMITED**  
**Gare Palma IV/8 Coal Mine**

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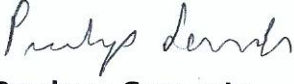
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This is for your kind information Please.

Thanking you,

**Yours faithfully,  
For, Ambuja Cements Limited**



**Pradeep Samanta  
Joint President (Coal Block- Gare Palma IV/8)**



Encl: i) Six monthly Environment Clearance Compliance Status Report for Pit head captive wet coal washery.

Copy to :

1. The Ministry of Environment, Forest and Climate Change, India Paryavaran Bhavan, Jorbagh Road, New Delhi - 110003
2. The Member Secretary, Zonal Officer, Chhattisgarh Environment Conservation Board, Atal Nagar Naya Raipur (C.G.)
3. Central Pollution Control Board, Sahkar Bhawan, 3rd Floor, North T.T. Nagar, Bhopal-462003
4. Regional Officer, Chhattisgarh Environment Conservation Board (CECB), TV tower Road, Raigarh (CG)
5. Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building Civil Lines, Nagpur-440001

**ENVIRONMENT CLEARANCE COMPLIANCE STATUS REPORT  
FOR PIT HEAD CAPTIVE WET WASHERY (1.8 MTPA in an area of 10.336 ha) FOR  
GARE PALMA IV/8 COAL BLOCK**

**EC No. J-11015/76/2010-IA.II (M) dated 10<sup>th</sup> June, 2013  
AMBUJA CEMENTS LTD.**

## UNDERTAKING

Information provided in the EC Compliance Report for Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 Ha) for Gare Palma IV/8 Coal Block, Raigarh (Chhattisgarh) is true to the best of my knowledge.

For,

Ambuja Cements Ltd.

*Pradeep Samanta*

Pradeep Samanta

(Jt. President, Gare Palma IV/8 Coal Mine)





## **1.0 INTRODUCTION**

Ministry of Coal, Govt. of India through Nominated Authority conducted 2<sup>nd</sup> phase of e-auction of coal blocks during February, 2015 in which Ambuja Cements Limited (ACL) emerged as a successful bidder for Gare Palma IV/8 Coal Block with an extractable reserves of 45.85 MT & approved Mixed (Both underground & opencast) Mine plan capacity of 1.2 MTPA was listed under schedule III of the Coal Mines (Special Provision) Act, 2015 earmarked for un-regulated sector. Subsequently Coal Mine Development & production agreement was signed between ACL and Nominated Authority on 16<sup>th</sup> March, 2015 followed by issuance of Vesting Order by Nominated Authority on 22<sup>nd</sup> April, 2015 & corrigendum no. 1 to the vesting order with co-ordinate dated 14<sup>th</sup> December, 2015. The mining lease execution and registration of the lease agreement has been completed for an area of 474.703 Ha on 31<sup>st</sup> December, 2015. We have got the **BhuPrabeshon** 06/06/2018

The development operations has been started in the open cast coal mine Gare Palma IV/8 (Scheduled coal production capacity 0.70 MTPA from opencast) since 2<sup>nd</sup> April, 2018, it has been intimated to the CECB – Naya Raipur vide our letter no. ACL/GP-IV\*8/Coal Mine/CTO-Develop/CECB/Raipur/01, Date: 27/03/2018. We have obtained the Consent To Operate for Coal Production vide letter no. **5670/TS/CECB/ 2018** dated on 15/10/ 2018 from Chhattisgarh Environment Conservation Board. We have started the Coal Production from **22nd Oct' 2018**.

Gare Palma IV/8 Coal Mine had obtained the Environmental Clearance for Pit head captive wet washery (1.8 MTPA in an area of 10.336 ha) on 10<sup>th</sup> June, 2013 in the name of M/s. Jayaswal Neco Ltd. (Prior allottee). Later on Gare Palma IV/8 Coal Block has been allocated to M/s Ambuja Cements Limited by Nominated Authority, Ministry of Coal, Government of India vide Vesting order No. 104/28/2015/NA dated 22.04.2015 and Addendum No. 1 dated 19.06.2018 to the aforesaid vesting order. Subsequently, the execution of mining lease has been completed for the Coal Block and land acquisition for mining is under process.

The Ministry of Environment, Forest and Climate Change has transferred the Environment Clearance of Pit head captive wet coal washery of 1.8 MTPA in an area of 10.336 ha located in Gare Palma IV/8 coal mine to M/s. Ambuja Cements Limited on 1<sup>st</sup> April, 2019.

We were unable to start the construction work for pit head captive wet coal washery, the matter of land acquisition was sub-judice in Bilaspur High Court since January 2018, the process of land acquisition could not be completed as per schedule.

Now, all the cases related to land disputes has been disposed off on 8<sup>th</sup> April, 2019 from sub-judice in Bilaspur High Court by passing the final order for the compensation. The disbursement of approx. 94% of compensation has been done by SDM, Gharghoda

**Environment Clearance Compliance Status Report of Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 Ha) located in Gare Palma IV/8 Coal Mines at Village- Khamaria, P.O- Tanmar, District -Raigarh (C.G.)**

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(Raigarh) till 1st of July 2019. However, the project could not be commissioned due to delay in land acquisition.





## POINT WISE COMPLIANCE REPORT FOR THE ENVIRONMENT CLEARANCE CONDITION

### 2.1 Transfer of Environment Clearance title in the name of M/s Ambuja Cements Limited vide letter no. J-11015/76/2010-IA-II(M) dated 1<sup>st</sup> April, 2019 by MoEF&CC, New Delhi

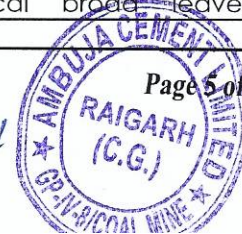
Sl.no	Conditions	Remarks
(i)	Any change in scope of work will attract the provisions of Environment (Protection) Act, 1986 and the EIA Notification, 2006 and subsequent amendments therein.	Agreed
(ii)	All conditions stipulated in the Environment Clearance dated 10 <sup>th</sup> June, 2013 shall remain unchanged.	Agreed
(iii)	The allottee shall be liable for any act of violation of the EP Act, 1986 /EIA Notification 2006/ subsequent amendments and circulars which it has inherited during the revalidation/transfer.	Agreed
(iv)	The allottee shall be liable for compliance of all court directions, if any.	Agreed

### 2.2 Environment Clearance from MoEF No. J-11015/76/2010-IA.II (M) dated 10<sup>th</sup> June, 2013

#### A. SPECIFIC CONDITIONS:

Sl.no	Conditions	Remarks
i.	As large numbers of existing and proposed neighboring mines and industries in the area, the Cumulative Impact Assessment study of entire coal mining area should be carried out by proponent.	Noted. Now the Company has started production of coal only from Opencast Mines & other neighboring mines of the area have either not yet started or not reached peak capacity. The Cumulative Impact Assessment Study of the entire coal mining area will be jointly done, once all the mines in this area become operational.
ii.	The entire water of the area is acidic due to presence of Pyrites. People use carbonate to increase alkalinity. Proponent shall take measures to reduce the acid in water.	The construction of Sedimentation pond of size 40x20x3 m3 is in progress to treat the mine discharge. The water from sedimentation pond will be fed into the RO Plant for drinking water purpose.
iii.	Recharging of groundwater is required.	Shall be complied by construction of Rainwater harvesting pits with artificial groundwater recharge facility to ensure that the ground water remains recharged throughout the year.
iv.	Schedule-I Fauna- Peacock, Sloth bear and Elephant reported in area. Proponent should contribute on proportionate basis in Wild Life Conservation Plan prepared by state Govt. for conservation of flora and fauna.	Rs. 1 crore has been contributed by the company to the Department of Forest and Wildlife, Govt. of Chhattisgarh for implementation of the plan.
v.	Thick green belt of 50 mt should be provided all around the plant area with native species as watery is polluting the area.	Noted. Green belt has been developed with 10,000 numbers of local broad leaves species (like

*Sanjay Kumar*





**Environment Clearance Compliance Status Report of Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 Ha) located in Gare Palma IV/8 Coal Mines at Village- Khamaria, P.O- Tanmar, District -Raigarh (C.G.)**

Sl.no	Conditions	Remarks
		Tectona grandis, Shorea robusta etc) in the periphery of the mine lease area / premises. (Photographs attached <b>Annexure-1</b> ). Company will develop the plantation in 133.53 ha area including external OB dump (39 ha), backfilled area (80 ha), along ML boundary, barrier zone (6ha) along roads (4.5 ha) and infrastructure (4 ha) by maintaining the density of the trees around 2500 plants per ha.
vi.	The coal washery plant and area should be completely covered.	Shall be complied.
vii.	One season (non-monsoon) primary base-line data on Environment quality (PM10 & PM2.5) should be done.	The primary base-line data on Environment quality (PM10 & PM2.5) have already been collected during EIA. The data attached in <b>Annexure-2</b> .
viii.	All the internal roads within washery should be made of concrete.	Agreed. All the internal roads within washery are proposed to made pucca. Water spraying arrangements have been made during transportation of coal and other waste materials on haul roads. We ensure that Good housekeeping practices have been put in place.
ix.	Electrical equipment should be dust proof and properly protected.	Shall be complied.
x.	Transportation of Coal to Bhupdeopur (60km) by road should be by mechanically covered trucks and later on by rail upto Raipur.	Coal is being transported to the Bhatapara Cement Plant of the company by trucks, which are duly covered with tarpaulin to avoid dust emission.
xi.	The transportation of coal from the coalmine/washery till Bhupdeopur railway siding will be by road until the railway siding comes in that area. Once the railway siding is established the entire transportation of coal will be done through railways from the mine head/washery.	Agreed.
xii.	CSR 1% of the cost of project i.e. Rs. 44.50 lakhs for upliftment of surrounding villages be provided by the proponent.	Agreed.
xiii.	Coal washing shall be operated in closed water circuit. Water after coal washing shall be taken to treatment plant. After separating the coal fines from the water shall be reused for coal washing. No waste water will be discharge from the coal washery premises. Thus, Kelo river and Sajaranala will not get polluted.	The entire plant is designed to operate in a closed water loop. The washery is designed to be operated on zero discharge principle. Treated effluent will be recycled and reused in the washery circuit. No waste water shall be discharged to the natural drainage system.
xiv.	The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site(s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored minerals do not catch fire.	The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at designated site(s) within stockyards. All safety and health codes prescribed by the BIS will be implemented. Fire extinguishing

*Parul Singh*





**Environment Clearance Compliance Status Report of Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 Ha) located in Gare Palma IV/8 Coal Mines at Village- Khamaria, P.O- Tanmar, District -Raigarh (C.G.)**

Sl.no	Conditions	Remarks
		equipment, sand buckets, water sprinklers and water hoses will be provided at all convenient point. Fire, heat, smoke and hydrocarbon detection alarms will be installed to prevent the fire.
xv.	Hoppers of the coal crushing unit and washery unit shall be fitted with high efficiency bag filters and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads.	Agreed. High efficiency bag filters & Dry fog type dust suppression system shall be installed at all times of operation to check fugitive emission.
xvi.	The report titled 'Flora and fauna and conservation plan for endangered species of Gare IV/8 coal B block" approved by the PCCF (wildlife) of Chhattisgarh dated 22.11.2011 states that there is no national park, tiger reserve eco-sensitive zones within 15 km radius. It was informed that this area is neither affected by elephant nor any elephant corridor exists. However, there are occasional presence of elephants and other wild lives.	Noted.
xvii.	A Wildlife Conservation Plan for conservation and protection of wildlife in the study area has been approved at a cost of Rs 1 crore and shall be implemented by the proponent in consultation with Departments of Forest and Wildlife, Govt. of Chhattisgarh. The WLCP shall comprise of components of habitat improvement and conservation of biodiversity, provision of water holes, and augmenting water bodies, nursery and plantation of species of natural food and fodder found in the natural habitat, salt licks, measures for protection against forest fires and poaching, awareness campaign of villagers in the study area and compensation in case of man-animal conflicts. The status of implementation of the WL Conservation Plan including budgetary provisions of various activities and status of expenditure shall be regularly uploaded on the website of the Forest and Wildlife Departments of Govt. of Chhattisgarh and of the project proponent and the status shall be regularly reported to this Ministry and the MoEF Regional Office, as part of the compliance report.	Noted.
xviii.	As per the approved plan of the 'Flora and fauna and conservation plan for endangered species of Gare IV/4 coal Block" and recommended by the PCCF (Wild Life), Rs One crore be deposited, at one time, with the Department of Forest and Wildlife, Govt. of Chhattisgarh for implementation of the plan.	Agreed. Rs. 1 crore has been contributed by the company to the Department of Forest and Wildlife, Govt. of Chhattisgarh for implementation of the plan.

*Ambuja Ltd*





**Environment Clearance Compliance Status Report of Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 Ha) located in Gare Palma IV/8 Coal Mines at Village- Khamaria, P.O- Tanmar, District -Raigarh (C.G.)**

Sl.no	Conditions	Remarks
xix.	The project authorities shall also participate in a Regional Action Plan of the State Government for conservation of flora and fauna found within the study area, in addition to the above funds shall also contribute financially for implementation of the RWLCP. Habitat development such as grasslands/conservation measures along the migratory route/habitats of elephants found/visiting the area shall form a part of the Regional Action Plan.	Noted.
xx.	It will be used for growing plants along the fringes of the site roads and reclamation of external dump and backfilled area. The top soil stockpiles will be low height not exceeding 6 m and will be made use for concurrent filling without keeping the topsoil for a long period.	Shall be complied.
xxi.	The coal transportation will be by road. JNIL developed dedicated road from Gare IV/4 (Banjikhola) to Milupara (2 km). JNIL developed 2.2 km dedicated road from Gare IV/4 (Bankheta) to Dongamouha JNIL along with Monnet developed dedicated road from Millupara to Hukradipa passing through Gare IV/8 (8.8 km). Thereafter BOOT road is used till Raigarh (approx. 50 km). Coal movement done by 35 T dumpers. Trained drivers used.	A Railway siding is proposed 5km from the project and work is in progress. As soon as this siding becomes operational, coal dispatch shall be done through rail. Till then dispatch will continue through road.
xxii.	All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with 8 mechanical sweepers.	Agreed, All internal roads haulage roads have been made with WBM road. Regarding this, we have already submitted BG to CECB for construction of Pucca road.
xxiii.	Coal rejects with an ash content of 76% or less shall be fully utilised for power generation in linked TPP.	Noted.
xxiv.	The proponent shall maintain proper records of the ash content of raw (ROM) coal, clean coal, middling and coal rejects along with quantum of raw coal obtained and washed and dispatched every month and the same shall be uploaded on the company website every month	Agreed. A proper database will be maintained.
xxv.	Green belt shall be developed all along the periphery of the site, along the areas such as the washery unit, crushing unit, and stockyard. A 3-tier avenue plantation would be developed along vacant areas, near washery, storage yards, loading points and transfer points and along internal roads and main approach roads and on the 2-km road upto the railway siding and at the siding.	Agreed.
xxvi.	Trucks engaged for mineral transportation outside the washery upto the railway siding covering a distance of 2km shall be optimally loaded and covered with tarpaulin with no spillage en route. The trucks shall be properly maintained and emissions shall be below notified limits. Facilities	Noted. Coal is being transported to the Bhatapara Cement Plant of the company by trucks, which are duly covered with tarpaulin to avoid dust emission.

*Parag Dand*





**Environment Clearance Compliance Status Report of Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 Ha) located in Gare Palma IV/8 Coal Mines at Village- Khamaria, P.O- Tanmar, District -Raigarh (C.G.)**

Sl.no	Conditions	Remarks
	for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.	
xxvii.	The 16580 TPD wash coal from the washery will be taken to steel plant at Siltara, Raipur. 3850 TPD middling will be taken to 600 MW TPD at Hamirpur, Raigarh.	These were the EUPs of the prior allottee. For the successful bidder, Ambuja Cements Ltd, the EUPs are as mentioned in 'Diversion Notice-II' submitted to MOC.
xxviii.	All internal roads shall be concreted or black topped and the approach roads and roads used for transportation/nearby roads not owned by the company but used for the project shall be blacked topped. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit	Agreed, All internal roads haulage roads has been made with WBM road. Regarding this, we have already submitted BG to CECB. The facilities for parking of trucks have been provided & the drivers are also being trained & counselled periodically to ensure safe driving.
xxix	The roads (internal/approach/and roads used for the project) shall be regularly cleaned with mechanical sweepers and with water sprinklers. A 3-tier avenue plantation using native species shall be developed along the roads.	Shall be complied. The roads (internal/approach/and roads used for the project) are being regularly cleaned by the sweepers & maintained with water sprinklings.
xxx	Hoppers of the coal crushing unit at the crushing shed and washery unit shall be fitted with high efficiency bag filters/Dust extractors and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of belt conveyor systems which shall be closed and from transportation roads.	Agreed. High efficiency bag filters & Dry fog type dust suppression system shall be installed at all times of operation to check fugitive emission.
xxxi	Proper housekeeping practices shall be followed and all the raw materials including sludge and waste oil shall be stored separately in designated places only.	Agreed. Proper house keeping is being maintained. Waste oil is being stored in barrel & kept it in a designated place. The raw material sludge shall also be stored separately.
xxxii	Industrial wastewater (workshop and wastewater from the washery-cum Re-Rolling Unit) shall be properly collected, treated in an ETP so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap shall be installed for treatment of workshop effluents. No wastewater shall be discharged from the washery into the drains/natural watercourses. Storm water shall be let out through separate storm water drains and shall be tested for pH, TDS, etc and the water shall be treated to prescribe limits before discharge from the premises.	Agreed. Waste water discharge from washery will be treated through sedimentation pond system. The water from sedimentation pond will be fed into RO Plant for drinking water purpose.  We have already installed ETP in opencast area with a capacity of 5 KLD for treatment of effluents from workshop.
xxxiii	Socio-economic and welfare measures for the local communities for the village Bhelatand and other adjoining villages shall be implemented under CSR and shall be not less than Rs. 1 crore per annum. Details of village-wise activities under CSR and the status of its implementation along with expenditure thereon shall be uploaded on	Agreed, the allocated funds will be provided by the company. Ambuja Cement Foundation (ACF) is already carrying out CSR activities for uplifting the Socio-economic conditions and improving the standard of living in the adjoining villages. The PAVs are



**Environment Clearance Compliance Status Report of Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 Ha) located in Gare Palma IV/8 Coal Mines at Village- Khamaria, P.O- Tanmar, District -Raigarh (C.G.)**

Sl.no	Conditions	Remarks
	the company website.	Khamaria, Karwahi, Lamdhara and Sidarpara. In the Financial Year 2019-20 total Rs. 70.655 lakhs have been spent from the CSR fund for uplifting the Socio-economic conditions and improving the standard of living in the adjoining villages.
xxxiv	Records of quantum and ash content of raw coal being washed, and clean coal and coal rejects produced from every batch of washing shall be maintained and details thereof uploaded on the company website.	Agreed. A proper database will be maintained.
xxxv	The Washery unit shall be a zero-discharge facility and no wastewater shall be discharged from the washery into the drains/natural watercourses. Recycled water shall be used for development and no additional groundwater shall be used for the Plant Operations. Any additional water requirement envisaged shall be obtained by recycle/reuse to the maximum extent and from rainwater harvesting measures.	The entire plant is designed to operate in a closed water loop system. The washery is designed to be operated on zero discharge principle. Treated effluent will be recycled and reused in the washery circuit. No waste water shall be discharged to the natural drainage system.  No additional groundwater shall be abstracted for the plant operations. Rainwater harvesting system shall be installed for additional water requirement.
xxxvi	Socio-economic and welfare measures for the local communities for the adjoining villages shall be implemented under CSR. Activities under CSR activities to be undertaken for the adjoining villages shall be identified in consultation with the local authorities, the details of status of implementation of CSR and expenditure thereon which should be annually updated on the company website.	Agreed, the allocated funds will be provided by the company. Ambuja Cement Foundation (ACF) is already carried out various initiatives under CSR activity for upgrading the Socio-economic condition of the villagers in the adjoining villages. Various skill-enhancement programs to increase employability, augmenting agricultural yield and improving the health and hygiene of the stakeholders are taken up.
xxxvii	Heavy metal content in raw coal, and washed coal shall be analysed once in a year and records maintained thereof.	Shall be complied with.

**B. GENERAL CONDITIONS:**

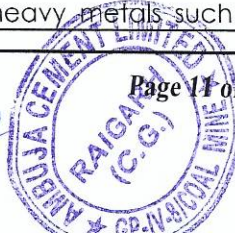
Sl.no	General condition	Compliance
i.	No change in process technology and scope of working including quantum of mineral coal washed shall be made without prior approval of the Ministry of Environment and Forests.	Agreed.
ii.	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM10, PM 2.5, SO2 and	Agreed. We have engaged the M/s SMS Envirocare Ltd, Nagpur (for Maharashtra Enviro Power Ltd-



**Environment Clearance Compliance Status Report of Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 Ha) located in Gare Palma IV/8 Coal Mines at Village- Khamaria, P.O- Tanmar, District -Raigarh (C.G.)**

Sl.no	General condition	Compliance
	NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in SPM and RSPM etc. shall be carried out at least one in six months.	Nagpur, a NABL accredited company) to install ambient air quality monitoring stations in and around the opencast mine area (at least four) in the core zone as well as buffer zone for PM10, PM 2.5, NOx, SO2, CO on monthly basis and Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr in particulates have been carried out once in six months. <b>Latest report attached (Annexure-3)</b>
iii.	Data on ambient air quality (PM10, PM2.5, SO2 and NOx and heavy metals such as Hg, As, Ni, Cr, etc) shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EP Rules, 1986 shall be furnished as part of the compliance report.	We have deployed a reputed monitoring agency who is empanelled with MoEFCC (a recognized Laboratory) for regular environment monitoring on monthly basis and the data. On ambient air quality (PM10, PM2.5, SO2, NOx and heavy metals such as Hg, As, Ni, Cr etc) and other monitoring data are maintained and sent to CECB and MOEFCC. <i>All the data is being submitted in Half-yearly Compliance report to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months.</i>
iv.	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	We are monitoring noise levels on monthly basis and the data generated is recorded. We have provided ear plugs/muffs to the workers engaged in drilling, blasting and operations of heavy earth moving machinery (HEMM) etc operations during mining operation. Company has provided appropriate noise barriers. Plantation has been developed. Adequate measures is being taken for control of noise levels below 70 dB(A) in the work environment. Company will follow all the directions issued by CECB Raipur in this regard.
v.	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EP Rules, 1986.	Agreed. We have engaged the M/s SMS Envirocare Ltd, Nagpur (for Maharashtra Enviro Power Ltd- Nagpur, a NABL accredited company) to install ambient air quality monitoring stations in & around the opencast mine area (at least four) in the core zone as well as buffer zone for SPM, RPM, NOx, SO2, CO on monthly basis and Monitoring of heavy metals such as Hg, As, Ni,

*Sanjay Kumar*





**Environment Clearance Compliance Status Report of Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 Ha) located in Gare Palma IV/8 Coal Mines at Village- Khamaria, P.O- Tanmar, District -Raigarh (C.G.)**

Sl.no	General condition	Compliance
		Cd, Cr in particulates have been carried out once in six months.
vi.	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	Agreed. The Personnel working in mine area are wearing protective respiratory device mask. They have been provided with adequate training and information on safety and health aspects through our Occupational health & safety department.
vii.	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal	Environment management cell has been established under supervision of competent and senior executive technical personnel. Year-wise expenditure on environment management shall be maintained. In the Financial Year 2019-20 Rs. 10 lakhs have been spent for environment management.
viii.	The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	Newspaper advertising has already been done by prior allottee. The compliance status shall also be uploaded in ACL website so as to bring the same in public domain.
ix.	A copy of the environmental clearance letter shall be marked to concerned Panchayat/ Zila Parishad/Municipal Corporation or Urban Local Body/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.	Agreed.
x.	A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.	Noted.
xi.	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOEF, the respective Zonal offices of CPCB and the SPCB. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water,	Agreed. The Half-Yearly EC Compliance status report for Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 ha) shall be submitted along with Half-Yearly EC Compliance status report of Opencast Coal Mine to the concerned Environment offices.

*Sanjay Kumar*





**Environment Clearance Compliance Status Report of Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 Ha) located in Gare Palma IV/8 Coal Mines at Village- Khamaria, P.O- Tanmar, District -Raigarh (C.G.)**

Sl.no	General condition	Compliance
	noise and soil) shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.	
xii.	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Full co-operation shall be extended to the MoEF&CC Regional Office by furnishing the requisite data /information/monitoring reports.
xiii.	The environmental statement for each financial year ending 31st March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF by E-mail.	The environmental statement for Pit Head Captive Wet Washery (1.8 MTPA in an area of 10.336 ha) shall be submitted along with environmental statement of Opencast Mine for each financial year in Form-V.

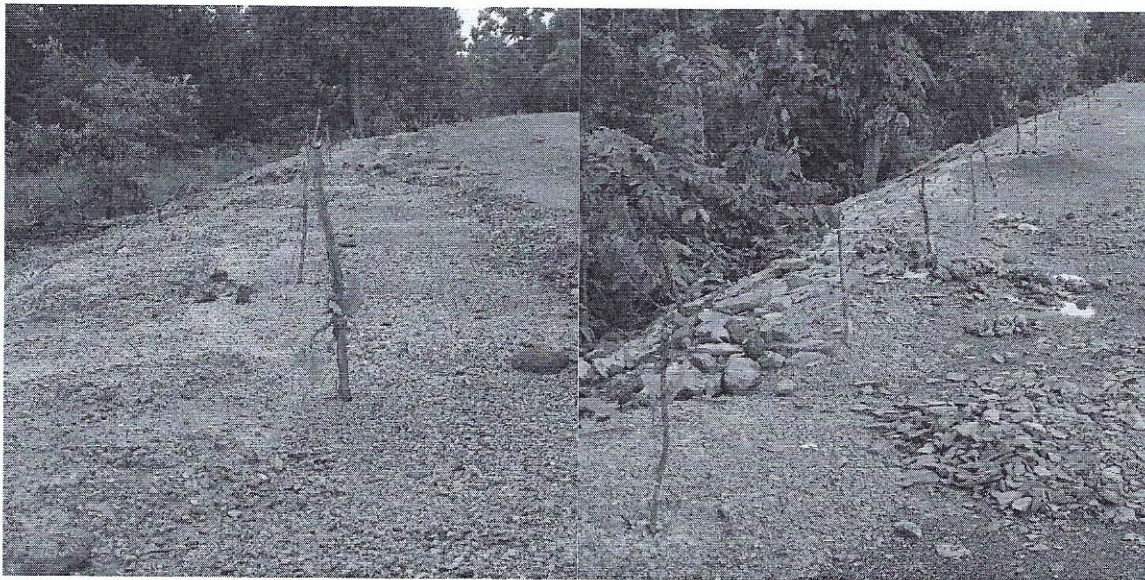
*Pradyumn Singh*





**Annexure-1**

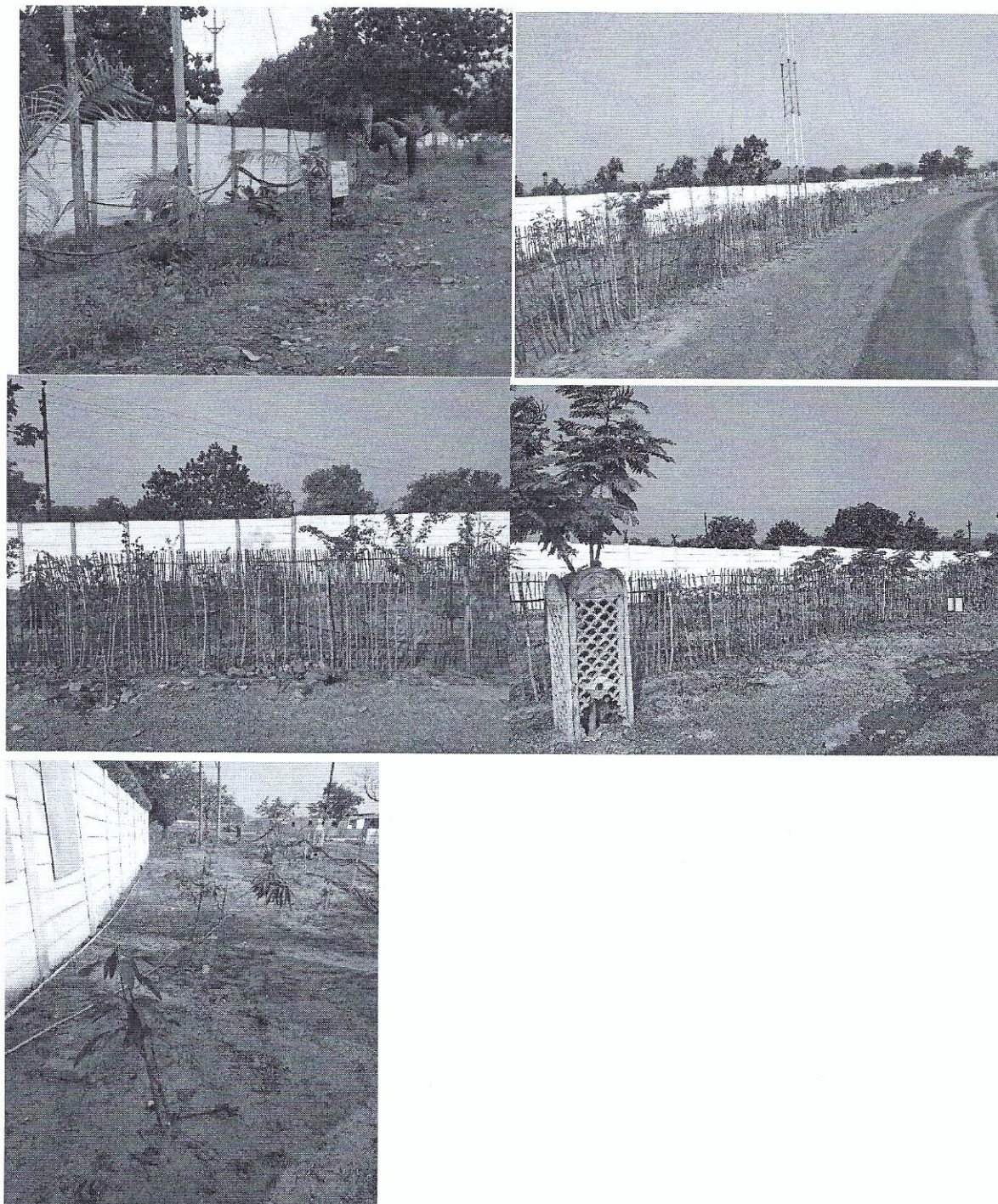
**Photographs of tree plantation for extension of validity of environmental clearance for Pit head captive wet washery (1.8 MTPA in an area of 10.336 ha) of Gare Palma IV/8 Coal Mines**



**Tree plantation in the UG Site**







Tree plantation in Opencast area



**Annexure-2**

**RESULTS OF AMBIENT AIR QUALITY MONITORING FOR PARTICULATE MATTER (<10 µm)**

Month	Station Name	Value (µg/m³)
Nov'19	Durga House	47.2
Dec'19	Durga House	45.9

**RESULTS OF AMBIENT AIR QUALITY MONITORING FOR PARTICULATE MATTER (<2.5 µm)**

Month	Station Name	Value (µg/m³)
Nov'19	Durga House	20.5
Dec'19	Durga House	18.8



Annexure-3

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR PARTICULATE MATTER (<10 µm)

Code	Stations	Jul -19	Aug -19	Sep-19	Oct-19	Nov-19	Dec-19	MIN	MAX	AVG	98 percentile
AAQ-1	At Site Office	54.7	47.3	45.4	58.7	64.5	60.1	45.4	64.5	55.1	64.11
AAQ-2	At Banjari Temple	51.4	42.7	46.2	53.5	55.8	52.3	42.7	59.5	50.31	59.16
AAQ-3	Khamaria village	53.6	40.1	45.4	56.7	64.2	61.8	46.1	62.8	53.61	62.46
AAQ-4	Nr School, Rampura village	46.9	38.3	43.5	52.3	54.7	51.3	43.7	57.2	47.83	56.93
AAQ-5	At Durga House	45.4	34.2	38.9	50.4	47.2	45.9	39.6	53.8	43.66	53.51

\*Values are in µg/m<sup>3</sup>

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR PARTICULATE MATTER (<2.5 µm)

Code	Stations	Jul -19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	MIN	MAX	AVG	98 percentile
AAQ-1	At Site Office	23.5	17.4	16.1	27.5	31.3	27.8	16.1	31.3	23.9	30.99
AAQ-2	At Banjari Temple	19.8	14.5	17.6	22.9	24.4	20.9	14.5	24.4	20.0	24.20
AAQ-3	Khamaria village	24.8	15.6	16.8	24.5	28.7	26.9	15.6	28.7	22.8	28.43
AAQ-4	Nr School, Rampura village	18.2	13.7	15.1	24.2	25.9	17.5	13.7	25.9	19.1	25.65
AAQ-5	At Durga House	16.6	12.1	15.6	21.3	20.5	18.8	12.1	21.3	17.4	21.11

\*Values are in µg/m<sup>3</sup>



**RESULTS OF AMBIENT AIR QUALITY MONITORING FOR SULPHUR DIOXIDE (SO<sub>2</sub>)**

Code	Stations	Jul - 19	Aug - 19	Sep- 19	Oct- 19	Nov- 19	Dec -19	MIN	MAX	AVG	98 percentile
AAQ-1	At Site Office	9.2	11.8	13.5	16.3	18.6	15.4	9.2	18.6	14.08	18.41
AAQ-2	At Banjari Temple	9.9	10.8	12.3	14.8	16.2	11.6	9.9	16.2	12.6	16.07
AAQ-3	Khamaria village	11.2	13.8	15.2	18.8	21.1	18.4	11.2	21.1	16.41	20.90
AAQ-4	Nr School, Rampura village	8.5	9.9	10.7	15.5	17.6	11.5	8.5	17.6	12.28	17.41
AAQ-5	At Durga House	9.2	8.9	11.2	12.8	14.4	12.4	8.9	14.4	11.48	14.29

\*Values are in µg/m<sup>3</sup>

**RESULTS OF AMBIENT AIR QUALITY MONITORING FOR OXIDES OF NITROGEN (NO<sub>x</sub>)**

Code	Stations	Jul - 19	Aug- 19	Sep- 19	Oct- 19	Nov- 19	Dec- 19	MIN	MAX	AVG	98 percentile
AAQ-1	At Site Office	17.3	24.6	27.3	31.8	33.9	25.6	17.3	33.9	26.7	33.56
AAQ-2	At Banjari Temple	12.3	14.4	16.9	20.3	23.1	18.4	12.3	23.1	17.5	22.88
AAQ-3	Khamaria village	13.7	17.5	19.7	24.3	29.5	26.5	13.7	29.5	21.8	29.18
AAQ-4	Nr School, Rampura village	12.1	16.4	18.6	23.7	26.3	19.1	12.1	26.3	19.3	26.01
AAQ-5	At Durga House	12.5	13.3	16.8	19.1	22.6	18.7	12.5	22.6	17.1	22.398

\*Values are in µg/m<sup>3</sup>

**HEAVY METALS-**

Heavy metals (i.e. Pb, As, Ni, Hg) have been monitored & analyzed simultaneously, however, every time concentrations of heavy metals are observed as BDL (below detectable level).