



Compliance Report on conditions of Environment Clearance for Gare-Palma IV/5 coal mining project Transfer by Ministry of Environment & Forests vide letter no. J-11015/8/1998-IA.II (M) Dated: - 16th April 2015 for Under Ground Mining 1.0 Million Ton/Annum Production Capacity

SI No	Conditions	Status
1	Any change in scope of work will attract the provisions of Environment Protection Act (EPA), 1986 and Environment Impact Assessment Notification, 2006 in conjunction with the subsequent amendments/circulars.	Noted please.
2	All conditions stipulated in the EC letter No.J-11015/8/1998-IA.II (M) dated 31 st August, 2000 shall remain unchanged.	Noted please.
3	The successful bidder shall be liable, if any, for any act of violation of the EPA 1986/EIA Notification 2006/subsequent amendments and circulars which it has inherited during the transfer.	Noted please.
4	Successful bidder shall be liable for compliance of all court directions, if any.	Noted please.

Compliance Report on conditions of Environment Clearance for Gare-Palma IV/5 coal mining project given by Ministry of Environment & Forests vide letter no. J-11015/ 8/1998-IA.II (M) Dated: - 31st August 2000 for Under Ground Mining 1.0 Million Ton/Annum Production Capacity

SI no	Specific Conditions	Status
i	Regular Monitoring of subsidence movement on the surface over working areas and impact on water bodies/ vegetation/ structures/ surroundings should be continued till movement ceases completely. In case of observation of any high rates of subsidence movement, appropriate measures should be taken to avoid loss of life and materials. Cracks should be effectively plugged with ballast and clayey soil/ suitable material.	The method of mining at Gare Palma IV/5 coal mine is Bord & Pillar. Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural pattern, water bodies, vegetation, structure, roads and surroundings is being done by internal expert. During the observation no subsidence movement has been observed. In future, if any subsidence movement id found, appropriate effective corrective measures will be taken to avoid loss of life and material. Cracks will be effectively plugged with ballast and clayey soil/suitable material if observed.
ii	Adequate underground barrier should be left in consultation with the Director General of Mines & Safety (DGMS). Depillaring should also be carried out after taking approval from DGMS.	Adequate underground barrier as required are being maintained between the working face and the river in consultation with DGMS and also at other places whenever required. Depillaring is being carried out after taking prior approval of the DGMS.
iii	Garland drains should be constructed around the waste rock and ore stockpiles to prevent surface run-off.	Garland drain have been constructed around the coal stock yard to prevent the surface run-off.
iv	A Green Belt of adequate width should be raised by planting the local species along the mine	Planation in mines area is being done. At present around 42000 nos. of trees have been planted



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	boundary, Waste rock dumps, ore stockpile, ventilation fan road and selected open areas in consultation with local DFO/ Agriculture Department. Density of tree should be at least 2500 plants per ha.	including the Mine boundary and other places. Trees species planted are Gulmohar, Ashoka Aam, Imli, Shisam, Eucalyptus, Neem, Jamun, Accassia spp. etc. in consultation with DFO. Plantation has been carried out @2500 per hectare and will also be ensure in future. Plantation details enclosed as Annexure –I.
V	Compensation to the 14 land losers from whom private land will be acquired should be paid as per the state government norms.	Compensation to the 14 land losers has been paid by the company.
Vi	The project authority should conduct a subsidence estimation study and submit the report to the Ministry within six months.	Subsidence estimation study report has been submitted to the Ministry by Prior allottee.
vii	The project proponent will construct "Check dams "at the sites proposed by the State Ground water Department in their report. While undertaking the proposed mining, the construction of the check dams should be carried out in with Ground water survey department, Government of MP (presently Chhattisgarh) and should have necessary financial provision and technical expertise. This should be communicated to the MoEF and CGWB.	As per requirement the check dams at the site will be constructed in consultation with state forest department and Ground water survey department, Government of Chhattisgarh and will be communicated to MOEF& CC and CGWB.
∨iii	Regular monitoring of the Ground water level and quality should be carried out by establishing a network of existing wells and constructing new Piezometer during the mining operations. The interval of monitoring should be four times a year-Pre monsoon (April to May), Monsoon (August), Post Monsoon (November) and winter (January). The data thus collected may be sent regularly to MoEF and CGWB for information.	Regular monitoring of groundwater level and quality is being carried out by establishing a network of existing wells. Report on ground water level monitoring and quality is enclosed as Annexure-II.
ix	Digital processing of the entire lease using remote sensing technique should be regularly once in three years for monitoring land use pattern and report submitted to MoEF and its regional officer.	Study report on digital processing of entire mine lease area has been submitted.
Х	A detailed mine decommissioning plan should be submitted to the MoEF, five years in advance for approval.	Detailed mine decommissioning plan will be submitted to the Ministry of Environment and forests, five years in advance for approval.
В	General Conditions	
i	No change in mining technology and scope of working should be made without prior approval of the MoEF.	Noted and is being complied
ii	No change in the calendar plan including excavation quantum of mineral coal and waste should be made.	Noted. Coal production restricted within EC limit.
iii	Four ambient air quality stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO2, NOx & CO Monitoring. Location of stations should be decided based on	Four ambient air quality monitoring stations have been established in consultation with the State Pollution Control Board and regular monitoring is



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	the meteorology data, topographical features and	being carried out. Monitoring Report is enclosed
	environmental and ecologically sensitive targets in	as Annexure -III.
	consultation with the State Pollution Control Board.	Anchine the months are a first and a section of the
iv	Data of ambient air quality (RPM, SPM, SO2, NOx	Ambient air quality monitoring report is enclosed
	& CO) should be regularly submitted to the Ministry	as Annexure -III.
	including its Regional Officer at Bhopal (Currently	
	Raipur) and the State Pollution Control Board &	
	Central Pollution Control Board (Currently Raipur).	
V	Drill should be wet operated.	Wet drilling is under practice.
vi	Fugitive dust emission from all the sources should	Fixed type water sprinkler has been provided at
	be controlled, regularly monitored and the data	all along the roads, and loading points etc. to
	recorded properly. Water spraying arrangement on	control the fugitive dust emission.
	haul roads, Wagons, loading dump trucks (loading	
	and unloading) should be provided and properly	
	maintained.	
vii	Adequate measures should be taken for control of	Ear muffs/plugs has been provided to the all
	noise level below 80db in the work environment.	workers engaged in blasting and drilling
	Workers engaged in blasting and drilling operation,	operations, operations of HEMM etc. The Noise
	operations of HEMM etc. should be provided with	monitoring report is enclosed as Annexure-IV .
	ear plugs/ muffs	
viii	Industrial waste water (workshop and waste water	06 nos. Settling ponds with two numbers of
	from the mine) should be properly collected and	Lamella clarifier (ETP-2 x200 m3 per hour) plant
	treated so as to conform on the standards	has been installed for treatment of mine water.
	prescribed under GSR 422 dated 19.05.1993 and	Report on water quality is enclosed as
	31.12.1993 or as amended from time to time. Oil	Annexure-V.
	and grease trap should be installed before	
	discharge of workshop effluents in to the pond.	
ix	Acid mine water if any has to be treated and	There is no acid mine water. Lamella clarifier
	disposed off after conforming to the standards	(ETP) plant has been installed for treatment of
	prescribed by the competent authority.	mine water. Report on water quality is enclosed
		as Annexure-V.
Х	Environmental laboratory should be established	Environmental laboratory has been established
	with adequate number and type of pollution	with adequate number and type of pollution
	monitoring and analysis equipment in consultation	monitoring and analysis equipment in
	with the State Pollution Control Board	consultation with the state pollution control
		Board. However we have engaged NABL
		laboratory for environmental quality monitoring of
		the mines area.
xi	Personnel working in dust area should wear	Personnel working in dusty areas are wearing
	protective respiratory devices and they should also	protective respiratory devices and they have also
	be provided with adequate training and information	been provided with adequate training and
	on safety and health aspects. Occupational health	information on safety and health aspect.
	surveillance of the workers should be undertaken	Occupational health surveillance programme of
	periodically to observe any contractions due to	the workers is being undertaken periodically to
	exposure to coal dust and take corrective	observe any contraction due to exposure to coal
	measures if needed.	dust and corrective measures will been taken
	moasules ii needed.	accordingly.
xii	A separate environmental management cell with	
All	suitable qualified personnel should be set up under	
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	the control of a senior executive who will report directly to the Head of the Organization.	
xiii	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to Ministry.	The funds earmarked for environmental protection measures has been budgeted separately and not been diverted for other purposes. Annexure-VI .
xiv	The Regional Officer of the ministry located at Bhopal (currently Raipur) shall monitor compliance of the stipulated conditions. The project authorities should extent full co-operation to the officer (s) of the Regional Officer by furnishing requisite data information / monitoring reports	Agreed and cooperation will be extended on time to time.
XV	A copy of the clearance letter will be marked to concerned Panchayat/ local NGO if any from whom suggestion / representation has been received while processing the proposal	Complied by Prior Allottee.
xvi	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/ Tehsildar's office for 30 days	Complied by Prior Allottee.
xvii	The project authorities should advertise at least two local newspapers widely circulated around the project one of which shall be in vernacular language of the locality concerned informing that the project has been accorded environmental clearance and the copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the MoEF at http://envfor.nic.in	Complied by Prior Allottee.