



WBPDCCL

THE WEST BENGAL POWER DEVELOPMENT CORPORATION LIMITED

(A Government of West Bengal Enterprise)

Corporate Identity No. : U40104WB1985SGC039154

: Registered & Corporate Office :

'Bidyut Unnayan Bhaban', Plot No. 3/C, LA-Block, Sector III, Bidhannagar, Kolkata - 700 106

• Phone : (033) 2339-3200 / 3300 • Fax : (033) 2339-3186 / 2339-3286 / 2339-3197

• Website : www.wbpdcl.co.in

Ref: WBPDCCL/Director(Mining)/ 1142

Date: 22.11.2021

To
The Nodal Officer (PCCF)
CAMPA Cell, Forest Dept.
West Bengal.

Sub: Forest Diversion proposal no-FP/WB/MIN/43000/2019 of Barjora (North) Coal Mine of the West Bengal Power Development Corporation Ltd. (WBPDCCL) regarding.

Ref: Essential detail sought (EDS) by Nodal Officer on 13th Sept 2021.

Sir,

Online application for Stage-I Forest clearance (Forest Diversion Proposal for 338.74 Ha.) of Barjora (North) Coal Mine Project of the M/s West Bengal Power Development Corporation Limited submitted on 04.12.2019 through <https://parivesh.nic.in> portal (proposal no- FP/WB/MIN/43000/2019) is under process.

1st EDS on the diversion proposal was issued by the Nodal office on 20th January 2020. Subsequently the project proponent had submitted the compliance of EDS on 31st August 2021.

Again, EDS has been raised by the Nodal office on 13th Sep 2021. Compliance on the current EDS (13th Sep 2021) is submitted as under for consideration:

Sl. No	EDS	Compliance
(1)	KML file patch no.1 village Barapukhuria forest land 13.47 Ha and patch no.3 village Manohar Forest land 237.16 Ha. partly fall on waterbody/Nala. Please recast to exclude waterbody to prevent water contamination.	Geo-referencing for patch no-1 Barapukhuria forest land 13.47 Ha and patch no.3 village Manohar Forest land of 237.16 Ha. have been done freshly. KML boundaries of Barapukhuria & Manohar does not fall on Waterbody/Nala after recasting. However, a safety zone of 7.5 meter shall be left from the Waterbody/Nala while mining of coal to prevent water contamination. Modified KML file are uploaded with the forest diversion proposal for consideration of the same.
(2)	Maps at C iii and C iv have not been signed with seal of authorized signatory.	As per the Office order no.112/2021 dated 04.10.2021 (copy enclosed as Appendix 1) of the West Bengal Power Development Corporation Ltd, Sri Utpal Bhadra CVO & Ex-Officio Director, WBPDCCL will hold the responsibility of Director (Mining) of WBPDCCL and will act as the owner of all the Mines of WBPDCCL. Thus, Sri Utpal Bhadra is the authorized signatory. Signed and sealed Maps at C iii and C iv by authorized signatory is duly uploaded for the processing of the forest diversion proposal no-FP/WB/MIN/43000/2019.

Contd...2.

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Santalidih Thermal Power Station
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Kolaghat Thermal Power Station
GM - (03228) 231 110
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Bakreswar Thermal Power Station
GM - (03462) 220 201
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Fax : 220 214, 220 346

Sagardighi Thermal Power Project
GM - (03483) 237 099, E-mail : gmsgtpp@wbpdcl.co.in
Fax : (03483) 237 002

The West Bengal Power Development Corporation Limited

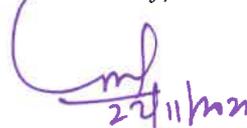
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Sl. No	EDS	Compliance
(3)	EC will be needed before approval for Forest land Diversion.	<p>Barjora (North) Opencast Coal mining project of the West Bengal Power Development Corporation Ltd (WBPDC) has obtained necessary Environmental clearance for 3 MTPA over an area of 260.14 Ha. vide letter no F. No-J-11015/90/2017-IA. II (M) dated 31st May 2018. (Copy of EC is enclosed as Appendix 2)</p> <p>As per the guideline dated 01.02.2013 of MoEF (FC Division), "Grant of EC may be considered only for the non-forest area plus the forest area within the mining lease for which FC is available. No Mining activities will be allowed in forest area for which the FC is not available".</p> <p>Thus, it is requested to grant forest clearance (FC) for 338.74 ha of forest land of Barjora (North) Coal Mine towards processing of Environmental clearance (EC) for entire 683.04 ha of Mining plan approved area. The Mining Plan of Barjora (North) Coal Mine over an area of 683.04 ha has been duly approved by Ministry of Coal, Govt. of India vide File no-CPAM-34011/21/2019-CPAM dated 26.09.2019.</p> <p>Declaration on the same is enclosed with this compliance report as Appendix 3.</p>

Hope, you will find the above compliance report in order and process the forest diversion proposal at the earliest.

Thanking you,

Yours faithfully,


 (Utpal Bhadra)
 Director (Mining), WBPDC

Encl: As above



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• Website : www.wbpdcl.co.in

WBPDCCL

Office Order No.112/2021

Dated : 04.10.2021

In addition to the normal assignments, Sri Utpal Bhadra, CVO & Ex-Officio Director, WBPDCCL will also hold the responsibility of Director (Mining), WBPDCCL with immediate effect and until further order. During this period, he will act as the owner of all the Mines of WBPDCCL.

(Dr. P.B. Salim, IAS)

Chairman & Managing Director

Memo No.: COHRA20110069/2655(i-xxix)

Dated : 04.10.2021

Copy forwarded for kind information/necessary action to:

- 1) The Addl. Chief Secretary to the Govt. of West Bengal, Dept. of Power, Bidyut Unnayan Bhaban, Kolkata - 700 106.
- 2) The Director (F&A) & Co. Secy./(O&M)/(Projects), WBPDCCL.
- 3) The CVO & Ex-Officio Director, WBPDCCL.
- 4) The Executive Director (F&A)/(FM&RA)/(OS)/(P&P), WBPDCCL.
- 5) The Advisor (MMC), WBPDCCL.
- 6) The General Manager, KTPS/BTPS/STPS/BkTPS/SgTPP, WBPDCCL/GM(Mining), MROD, WBPDCCL.
- 7) The General Manager (IT)/(M&C)/(FM)/(R&M)/(Env. & Safety)/(OS)/(Civil)-O&M/(Civil)-Proj./ (F&A) / (F&A)-IA/(Proj.)/(Mining), WBPDCCL.
- 8) Personal copy of Sri Utpal Bhadra, CVO & Ex-Officio Director, WBPDCCL.
- 9) Personal file of Sri Utpal Bhadra, CVO & Ex-Officio Director, WBPDCCL.

Director (HR)

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F.No.J-11015/90/2017-IA.II (M)
Government of India
Ministry of Environment, Forest and Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan
Jorbagh Road, N Delhi - 3
Dated: 31st May, 2018

To,

The Director (Mining)
M/s The West Bengal Power Development Corporation Limited
Bidyut Unnayan Bhaban, Plot No. 3/C,
Floor-II, LA Block, Sector-III, Salt Lake City
Kolkata - 98 (West Bengal) Email: barjoram@gmail.com

Sub: Barjora (North) Opencast Coal Mining Project of 3 MTPA of M/s The West Bengal Power Development Corporation Limited in ML area of 260.14 ha located in village and Tehsil Barjora, District Bankura (WB) - Environmental Clearance - reg.

Sir,

This has reference to your letter No.WBPDCL/Dir(Mining)/372 dated 7th March, 2018 along with online proposal No.IA/WB/CMIN/69394/2008, and subsequent letters dated 3rd April, 6th April, 11th April, 12th April, 17th April & 26th April, 2018 on the above mentioned subject.

2. The Ministry of Environment, Forest and Climate Change has considered the proposal for grant of environmental clearance to Barjora (North) Opencast Coal Mining Project of 3 MTPA of M/s The West Bengal Power Development Corporation Limited in ML area of 260.14 ha located in village and Tehsil Barjora, District Bankura (West Bengal).

3. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for Thermal & Coal Mining Sector in its 28th meeting held on 17-18 April, 2018. The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are reported to be as under:-

(i) M/s West Bengal Power Development Corporation Limited (WBPDCL) has been allotted the Barjora (North) Coal Block by Ministry of Coal, Government of India vide allotment order No.103/7/2015/NA dated 31st March, 2015.

(ii) The latitude and longitude of the project are 23025°59.238"N to 23027°42.094"N and 87013°17.106"E to 87015°26.268" E respectively.

(iii) The terms of reference for the project was granted vide letter dated 29th September, 2017.

(iv) Coal Linkage: End Use Plants are as follows:

1. STPS, Santaldih, Purulia district.
2. KTPS, Mecheda, PurbaMedinipur district.
3. BKTPP, Bakreswar, Birbhum district.
4. BTPS, Tribeni, Hoogly district.
5. SgTPP, Manigram, Murshidabad district

(v) Employment generated / to be generated is estimated to be about 477.

(vi) Benefits of the project: The developments of mining in the area will provide direct and indirect employment opportunities, infrastructure development, communication and



development socio-economic infrastructure. The important benefits accruing from the project can thus be stated as - boost to local and regional economy, direct contribution to the state exchequer. Indirect employees are shopkeepers, mechanic, drivers, transporters etc. The lessee (proponent) will be responsible for providing better social infrastructure benefits such as drinking water, health care measures, educational facilities, promotion of culture and religious activities in surroundings.

(vii) Total block area is 800 ha. The total Mining lease area as per approved Mining Plan is 260.14 ha. The land usage of the project will be as follows:

Pre-Mining Land use	
Land-use Category	Area (in ha)
Mined out Voids	63.93
De-coaled waste filled area (Waste Dumps)	39.49
Soil and Sub-soil Storage Area	5.86
Infrastructure Area	9.11
Other Built-up Areas	5.61
Safety Zone	17.89
Coal Stack-yard	1.25
Office and VT Centre	3.50
Road	2.55
Access Trench	0.65
Water Body (mine sump)	1.67
Sub-Total	151.51
Unutilized Land	108.63
Total	260.14

Land Use Plan For during mining and Land use in ha after mining			
S. No.	Land-use Category	Land use (Ha) during Mining	Land use (Ha) (End of Mining)
1.	Excavation area	191.00	
2	Backfilled Area(a+b)		156.47 (136.90+19.57)
a	Agriculture land		19.57
b	Plantation		136.90
3	Excavated Void		34.53
a	Water Harvesting		34.53
4	Top soil dump	5.86	5.86
5	Safety zone/Rationalization Area	17.89	17.89
a	Plantation		17.89
6	Road and Infrastructure Area	26.9	26.9
7	Garland Drain	2.25	2.25
8	Undistributed	5.62	5.62
9	Others(magazine, ETP, Access, Trench)	10.62	10.62
Total		260.14	260.14

(viii) Total geological reserve is 25.85 MT. The mineable reserve 18.60 MT, extractable reserve is 11.56 MT. The per cent of extraction would be 44.71%.

(ix) The coal grade is G-9 to G-13. The stripping ratio is 5.69 Cum/tonne. The average gradient 8°. There will be 9 seams with thickness as under:

Sl. No.	Seam Name	Thickness (m)			Depth range (m)
		Minimum	Maximum	Average	
1	Seam -IX	0.26	2.78	1.43	15.14-40.16
2	Seam -VIII	0.3	2.94	1.26	6.13-46.09
3	Seam -VII	0.55	4.72	2.11	9.00-76.38
4	Seam -VI	0.25	4.42	1.51	17.2-75.89
5	Seam -V	1.7	6.29	3.88	12.96-112.2
6	Seam -IV	0.20	1.30	0.67	
7	Seam -I / II / III	4.42	6.34	5.39	

(x) Total estimated water requirement is 1652 m³/day. The level of ground water ranges up to 35 m below ground level.

(xi) The mining method would be opencast.

(xii) There is no external OB dump. No waste will be dumped outside the leasehold area and from the very first day of development of this mine, internal dumping is envisaged and 3 internal dump with quantity of 65.85 Mbcm in an area of 156.47 ha.

(xiii) The final mine void would be in 34.53 ha with depth max.145 m (before final mine closure) and the total quarry area is 260.14 ha. Backfilled quarry area of 84.81 ha shall be reclaimed with plantation. A void of 34.53 ha with depth 145 m which is proposed to be converted into a water body.

(xiv) The life of mine is 22 Years.

(xv) Surface Miner for coal winning and Dozer-Shovel-Dumper combination for loading and transportation. Occasionally use of FEL is envisaged for coal loading directly from face.

(xvi) Rehabilitation and Resettlement have already been complied by prior allottee as per approved R & R Plan. However, if any left out families found within the leasehold area, WBPDCCL will implement approved R & R policy.

(xvii) Total capital cost of the project is Rs. 918.58 Crores. CSR Cost is yet to be finalised. Prior Allottee has already implemented R&R as per approved plan. However, is any further R&R is involved, WBPDCCL shall implement R&R as per new approved plan. Environmental Management Cost is also yet to be finalized.

(xviii) The main drainage of the area is controlled by the Damodar River which flows about 5 km north of the coalfield. Tartora nallah with a north-easterly flowforms the main drainage within the block with seasonal surface flow. However, Tartola nallah is not going to be affected in this proposed mining project.

(xix) Approvals: No ground water will be drawn for the project. However, as mine depth is more than ground water table, application for NOC from CGWA will be submitted. Board's approval obtained on 5th December, 2016. Mining Plan was approved on 4th September, 2017. Mine Closure Plan is an integral part of the Mining Plan.

(xx) Wildlife issues: There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 10 km buffer zone. Elephant Corridor is present in the study area.

(xxi) There are no forests involved in the mine lease area.

(xxii) Total afforestation plan shall be implemented covering an area of 84.81 ha at the end of mining. Green belt over an area of 17.89 ha. Density of tree plantation 2500 trees/ ha of plants.

(xxiii) There are no court cases/violation pending with the project proponent.

(xxiv) Public hearing for the project was held on 16th February, 2018 at Barjora Panchayat Samiti Meeting Hall, Barjora, District Bankura (West Bengal). The issues raised during the public hearing include employment, development of the neighbourhood, rehabilitation and resettlement, plantation, implementation of mine closure plan etc.

4. The sectoral Expert Appraisal Committee in its 28th meeting held on 17-18 April, 2018 has recommended the project for grant of environmental clearance. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to **Barjora (North) Coal Mining Project of 3 MTPA of M/s The West Bengal Power Development Corporation Limited in ML area of 260.14 ha located in village and Tehsil Barjora, District Bankura (West Bengal)**, under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the terms & conditions and environmental safeguards as under:-

- (i) To control the dust production at source, crusher and in-pit belt conveyors shall be provided with mist type sprinklers.
- (ii) Mitigative measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions as presented before the Committee, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding, etc.
- (iii) Persons of nearby villages shall be given training on livelihood and skill development to make them employable.
- (iv) To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.
- (v) Thick green belt of adequate width in the down wind direction of the project site shall be developed to mitigate/check the dust pollution. Plantation plan shall be prepared in consultation with the State Forest Department.
- (vi) The conservation plan for Elephant Corridor shall be prepared and submitted to the State Wildlife Department for approval, for its implementation in letter and spirit.

4.1 The grant of environmental clearance is further subject to compliance of the generic conditions as under:

(a) Mining

- (i) Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- (ii) No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change.
- (iii) 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).
- (iv) No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other



Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.

(b) Land reclamation and water conservation

(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 1:50,000 scale shall be submitted to Ministry of Environment, Forest and Climate Change/Regional Office (RO).

(ii) 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 etc, 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/Gol 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.

(iii) The final mine void depth should preferably be as per the approved Mine 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 handed over to the respective state government as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.

(iv) 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 Ministry of Environment, Forest and Climate Change/Regional Office on six monthly basis.

(v) The top soil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized for long. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised 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 on six monthly basis.

(c) Emissions, effluents, and waste disposal

(i) 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.

- (ii) Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area in a phased manner. The green belt comprising a mix of native species shall be developed all along the major approach/ coal transportation roads.
- (iii) The transportation of coal shall be carried out as per the provisions and route proposed in the approved Mining 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.
- (iv) 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.
- (v) 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.
- (vi) Coal handling plant shall be operated with effective control measures viz. bag filters/water or mist sprinkling system etc to check fugitive emissions from crushing operations, conveyor system, transfer points, etc.
- (vii) 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.
- (viii) Catch/garland drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly 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 utilised for dust suppression measures and green belt development. 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.
- (ix) Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Oil and grease trap shall be installed and maintained fully functional with effluents discharge adhering to the norms. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste.
- (x) Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.



(d) Illumination, noise & vibration

(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 & its RO on six-monthly basis.

(ii) Adequate measures shall be taken for control of noise levels below 85 dB(A) 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.

(iii) Controlled blasting techniques shall be practiced in order to mitigate ground vibrations and fly rocks as per the guidelines prescribed by the DGMS.

(iv) 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.

(e) Occupational health & safety

(i) The project proponent shall undertake occupational health survey for initial and periodical medical examination of the workers 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 workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any.

(ii) Personnel (including outsourcing employees) working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.

(iii) Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.

(f) Ecosystem and biodiversity conservation

(i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered 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 Wildlife Department.

(g) Public hearing, R&R and CSR

(i) 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.



(ii) The project proponent shall ensure the expenditure towards socio-economic development in and around the mine, in every financial year in pursuance of the Corporate Social Responsibility Policy as per the provisions under Section 135 of the Companies Act, 2013

(iii) The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.11 (M) dated 29th 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'.

(iv) 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.

(h) Corporate environment responsibility

(i) The Company shall have a well laid down environment policy duly approved by Board of Directors. The environment policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions. Also, the company shall have a defined system of reporting of non-compliances/violations of environmental norms to the Board of Directors and/or shareholders/stakeholders.

(ii) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the Company.

(iii) A separate environmental management cell both at the project and company headquarter level, with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.

(iv) Action plan for implementing EMP and environmental conditions 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.

(v) Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

(i) Statutory Obligations

(i) The environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other Court of Law from time to time, and as applicable to the project.

(ii) This environmental clearance shall be subject to obtaining wildlife clearance, if applicable, from the Standing Committee of National Board for Wildlife.



(iii) The project proponent shall obtain Consent to Establish/Operate under the Air Act, 1981 and the Water Act, 1974 from the concerned State Pollution Control Board.

(iv) The project proponent shall obtain the necessary permission from the Central Ground Water Authority (CGWA).

(j) Monitoring of project

(i) Adequate ambient air quality monitoring stations shall be established in the 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.

(ii) 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 25.9.2000 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.

(iii) The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.

(iv) 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-20012/1/2006-IA.11 (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.

(v) 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 shall 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 Ministry of Environment, Forest and Climate Change/Regional Office.

(vi) 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.

(vii) The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental conditions to the Ministry of Environment, Forest and Climate Change/Regional Office. For half yearly monitoring reports, the data should be monitored for the period of April to September and October to March of the financial years.

(viii) 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.



(k) Miscellaneous

(i) Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.

(ii) The project authorities shall inform to the Regional Office regarding commencement of mining operations.

(iii) A copy of the environmental clearance shall be marked to concerned Panchayat. A copy of the same shall also be sent to the concerned State Pollution Control Board, Regional Office, District Industry Sector and Collector's Office/Tehsildar Office for information in public domain within 30 days.

(iv) The EC shall be uploaded on the company's website. 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 public domain.

(v) The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of this clearance, informing that the project has been accorded environmental clearance and a copy of the same is available with the State Pollution Control Board and also at website of the Ministry.

(vi) The environmental statement for each financial year ending 31 March in Form-V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the Company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail. Concerns raised during public hearing.

(vii) The above conditions 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 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.

5. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.

6. The project proponent shall obtain all necessary clearances/approvals required before start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

7. Any appeal against this environmental clearance lies 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.



8. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the judgment dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of 'Common Cause Vs Union of India & others'.

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.

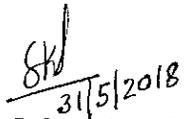
10. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.


31/5/2018

(S. K. Srivastava)
Scientist E

Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The APPCF, Regional office (EZ), Ministry of Environment Forests and Climate Change, A-31, Chandrashekarapur, Bhubaneswar - 751023
3. The Secretary, Department of Environment & Forest, Government of West Bengal, Secretariat, Kolkata
4. The Member Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi
5. The Member Secretary, CPCB, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
6. The Member Secretary, West Bengal State Pollution Control Board, Paribesh Bhawan, 10A, Block LA, Sector-III, Salt Lake City, Kolkata – 700098.
7. District Collector, Bankura, Government of West Bengal
8. Monitoring File 9. Guard File 10. Record File 11. Notice Board


31/5/2018

(S. K. Srivastava)
Scientist E



WBPDCCL

THE WEST BENGAL POWER DEVELOPMENT CORPORATION LIMITED

(A Government of West Bengal Enterprise)

Corporate Identity No. : U40104WB1985SGC039154

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Declaration

I, Sri Utpal Bhadra, Director (Mining), of The West Bengal Power Development Corporation Limited (WBPDCCL) hereby declare that:

The West Bengal Power Development Corporation Ltd (WBPDCCL) has been allotted the Barjora (North) Coal Block by Ministry of Coal, Govt. of India vide Allotment Order No. 103/07/2015/NA dated 31 March 2015.

Further, Barjora (North) Opencast Coal mining project of the West Bengal Power Development Corporation Ltd (WBPDCCL) has obtained necessary Environmental clearance for 3 MTPA over an area of 260.14 Ha. vide letter no F.No-J-11015/90/2017-IA. II (M) dated 31st May 2018. (copy of EC enclosed as Appendix 1)

The Mining Plan of Barjora (North) Coal Mine over an area of 683.04 ha has been approved by Ministry of Coal, Govt. of India vide File no-CPAM-34011/21/2019-CPAM dated 26.09.2019. Out of total 683.04 ha of land around 338.74 ha comes under forest land which needs Forest clearance. Diversion proposal of forest land of Barjora (North) Coal Mine is under process of approval.

As per the Essential Detail Sought (EDS) on 13th Sep 2021 by the Nodal officer (point no-3), EC will be needed before approval of forest land diversion. In this regard, following may kindly be noted that;

As per the guideline dated 01.02.2013 of MoEF (FC Division), "Grant of EC may be considered only for the non-forest area plus the forest area within the mining lease for which FC is available. No Mining activities will be allowed in forest area for which the FC is not available".

Thus, it is requested to grant forest clearance (FC) for 338.74 ha of forest land of Barjora (North) Coal Mine towards processing of Environmental clearance (EC) for 683.04 ha of Mining plan approved area.

(Utpal Bhadra)
Director (Mining), WBPDCCL

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