

Government of West Bengal  
Directorate of Forests  
**Office of the Principal Chief Conservator of Forests, Head of Forest Force**  
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No. 9054 / L&LT/2L-1(2)/06

Dated 31/12/2024

To

The Additional Chief Secretary  
Forest Department.

Sub: Proposal for seeking prior approval of the Central Government under Section 2(1)(ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for diversion of 338.74 ha of forest land for Coal Mining in Barjora (North) Coal Mine Block in favour of West Bengal Power Development Corporation Limited (WBPDC), Bankura District, West Bengal (Onlie Proposal No. FP/WB/MIN/43000/2019)-reg.

Ref: MoEF&CC, (FC Division), GoI memo dated 21/10/2024.

Sir,

Apropos to the instant matter, the Barjora (North) Coal Mine proposal is under consideration for grant of Stage-I/In-Principal Approval at MoEF & CC, GoI. The instant proposal was examined by the Advisory Committee and certain additional information was sought. The information is provided as under;

Query	Recommendation of PCCF & HoFF, West Bengal
Point (iv): The PCCF(HoFF) has recommended the proposal, however, keeping in view the fact that the area proposed is in high conservation zone and part of a landscape which is an elephant habitat, an in depth analysis of the issue is needed, especially in view of the concerns raised by the Nodal Officer. The PCCF (HOFF) shall therefore submit his clear recommendations duly addressing the specific concerns raised by the Nodal Officer.	The specific concerns raised by the then Nodal Officer have been addressed in the recommendations made by the PCCF/Wildlife & Chief Wildlife Warden, West Bengal (copy enclosed for ready reference) in this matter earlier and are endorsed by the undersigned. The Barjora North Coal Mine proposal in favour of West Bengal Power Development Corporation Limited (WBPDC) is therefore recommended in public interest.

Encl/- As stated

(Niraj Singhal)  
Principal Chief Conservator of Forests  
& Head of Forest Force, West Bengal.

**Office of the Principal Chief Conservator of Forests, Wildlife  
& Chief Wildlife Warden, West Bengal**

Instructions given vide U.O. No. 77(2)-ACS/For/2023 dated 22/09/2023, may please be referred to. The replies to the questions raised in para 3(a)-(i), are based on hard facts. The field units at the levels of DFO and CCF were asked to give their inputs on these questions vide this office memo no. 2757/WL/2W-167/2016 dated 22/09/2023. The reply received from Chief Conservator of Forests, Central Circle are endorsed by the undersigned.

It is mentioned here that the forest land proposed for diversion is not part of recognized elephant corridor. It is also not a passage that is used by elephants for accessing the river Damodar. The entry and exit to the Barjora elephant micro-habitat also lies on the opposite side of the proposed mining land. Thus, the proposed land diversion is not expected to impact established elephant migration route [para 3(d), (e) and (f)].

There was no human death within five (5) kilometre radius from the proposed mining site in Barjora in last 3 years and the compensation paid against crop damage is a modest sum of Rs. 1,40,160/-. The compensation/ ex-gratia amount of Rs 90.96 lakhs mentioned by the Nodal Officer, FCA is the accumulated dues for three years (2020-21, 2021-22 and 2022-23) for the entire Bankura (North) Division. The above account gives correct picture of the human-elephant conflict in the immediate vicinity of the proposed mining site [para 3(b) and (c)].

The proposed site identified for diversion is part of the Barjora elephant habitat, but it lies at the northern-most edge of the habitat abutting the existing mining site. Citing empirical evidence, the DFO and CCF commented that the elephants are occupying the Barjora micro-habitat irrespective of ongoing mining operations. The land proposed for diversion supports a vegetation whose species composition is typical of Bankura (North) Division except for higher abundance of Mohul and Pial, (two elephant fodder species). The forest land falls in Overlapping Wildlife Management Working Circle. [para 3(a), (g) and (h)].

In the recent years, there is a tendency of elephant herds staying longer period of time in Jhargram and Medinipur compared to Bankura (North) [vide para 3(i)].

Considering the above, it is estimated that the impact of the proposed project could be kept at a manageable level using extraction technology that does not require blasting and adopting the safeguards proposed by Divisional Forest Officer, Bankura (N) Division and Chief Conservator of Forest, Central Circle. The Proposal, therefore, is recommended.

  
(Debal Ray)

Principal Chief Conservator of Forests, Wildlife  
& Chief Wildlife Warden, West Bengal

Memo No. 2767 /WL/2M-167/2016  
Dated: 26 / 09 / 2023

PCCF & HoFF, W.B.





# Government of West Bengal

## Directorate of Forests

Office of the Chief Conservator of Forests

Central Circle, West Bengal,

3<sup>rd</sup> Floor, (Phase- II), Webel IT Park,

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**Memo No. 1513 /3A-1**

**Dated, 02/12/2023**

From :: The Chief Conservator of Forest,  
Central Circle, West Bengal.

To :: The Additional Principal Chief Conservator of Forests &  
Nodal Officer, Forest Conservation Act, West Bengal.

Sub :: Point wise compliance/ reply of EDS regarding Diversion of 338.74 ha of  
forest land for Coal Mining in Barjora North Coal Mine Block in favour of  
The West Bengal Power Development Corporation Limited, Bankura  
District, West Bengal (Online Proposal No. FP/WB/MIN/43000/2019).

Ref :: Ministry of Environment Forest and Climate Change, Forest Conservation  
Division, Government of India letter No. I/85056/2024 dated 21st  
October, 2024.

Sir,

In reference to the above-mentioned subject, this is informed that after examination of the said proposal by MoEF & CC, Forest Conservation Division, Govt. of India, few essential details were sought to proceed for the forest diversion proposal. Accordingly, EDS has been raised vide letter No. I/85056/2024 dated 21st October, 2024.

Accordingly, the Point wise compliance /reply are given below by the User agency; Divisional Forest Officer, Bankura North Division along with the comments of the undersigned for your kind perusal.

Sr. No.	EDS Raised by MoEF&CC	Point Wise Compliance of User Agency	Point Wise Compliance Report of DFO, Bankura North Division	Point Wise Compliance Report of Chief Conservator of Forests, Central Circle, W.B
i.	The CWLW while recommending the proposal has mentioned that the impact of the proposed project could be kept at manageable level using extraction technology that does not require blasting. In this regard, the state shall intimate whether the mining is proposed to be done with the extraction technology without blasting	As per Geological Report and Graphic Litholog Data of Boreholes of Barjora (North) Coal Mines, the top most strata is alluvium & top soil of thickness varies from 6m- 21m approximately. The Alluvium & Top Soil are mostly soft material, may not require any blasting operation for removal/excavation and can be excavated without blasting. Geological Report mentioning alluvium & top soil of thickness with Graphic Litholog of Boreholes is attached as Annexure-I for reference.  Thereafter due to presence of hard strata (Sandstone/Shale etc.) blasting is required. Winning of Coal will be done through	As per reply of user agency and as per Geological Report and Graphic Litholog Data of Boreholes of Barjora (North) Coal Mines, the top most strata (6m-21m) approximately is alluvium and may not require blasting operation and can be excavated without blasting whereas in hard strata Blasting is essential for removal of overburden. Controlled deep hole blasting technique will be used with electronic detonator as per DGMS guidelines ( <b>Annexure-I</b> ), so that there will be no adverse impacts of blasting on	The reply of User agency (US) made clear against the query of EDS (MoEF&CC) and further explained by the Divisional Forest Officer, Bankura North Division.

	<p>or otherwise.</p>	<p>Surface Miner hence no Blasting will be required.</p> <p>CIMFR conducted Scientific Study for Controlled deep hole blasting at Barjora (North) Coal Mine on dated May, 2019. The Report by CIMFR is attached as Annexure-II</p> <p>WBPDCCL has also obtained DGMS Permission to conduct controlled deep hole blasting under Regulation 196(3) of the Coal Mines Regulations, 2017 vide letter no: 010985 EZ Sitarampur Region No. I/Perm/2024/264869 on dated 22.08.2024 as Annexure-III</p> <p>Blasting in hard strata is necessary for removal of Over Burden. The Blasting will be done through advanced Technology i.e., by use of Electronic Detonator so there will be no adverse impacts of blasting on surrounding flora &amp; fauna. The Blasting Operation will be done following the recommendations of Scientific Study of CIMFR &amp; Guidelines of DGMS in order to keep the ground vibration &amp; Sound etc. within threshold limit value so that no harms will cause to flora &amp; fauna. Adequate numbers of blast induced ground vibration monitoring instruments &amp; Noise Level Monitoring instruments will be used to monitor the Vibration &amp; Noise for continuous check and balance mechanism to ensure that there is no harm to flora &amp; fauna.</p> <p>Further Control blasting technique will be adopted to eliminate the possibility generation of fly rocks as per Scientific Study Report by CIMFR.</p>	<p>surrounding flora &amp; fauna.</p> <p>However, the coal winning will be done through surface minor without blasting method.</p> <p>The Blasting Operation will be done following the recommendations of Scientific Study of CIMFR &amp; Guidelines of DGMS in order to keep the ground vibration &amp; Sound etc. within threshold limit value so that no harms will cause to flora &amp; fauna. Adequate numbers of blast induced ground vibration monitoring instruments &amp; Noise Level Monitoring instruments will be used to monitor the Vibration &amp; Noise for continuous check and balance mechanism to ensure that there is no harm to flora &amp; fauna.</p> <p>Further Control blasting technique will be adopted to eliminate the possibility generation of fly rocks as per Scientific Study Report by CIMFR.</p> <p>User Agency committed to adhere the norms of air over pressure/noise threshold level 136 dB(L) as per DGMS standard as recommended in scientific study report by CIMFR.</p>	
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ii.	<p>A brief profile of the company/UA should be submitted giving details of their existing mining leases for coal in the State with their capacity of production, the present level of average annual production, location of these pits and the status of reclamation of forest land where mining is completed. Along with this, the State Government should also submit the details of all other coal mining leases with their capacity and average annual production and projected future requirements. They should fully justify the necessity of opening the proposed mining lease on forest land by giving details like total number of mines with mining lease, area, mineable, reserve life of mine, maximum production achieved in particular year against permission granted for production per year".</p>	<p>Brief profile of WBPDC, of their existing mining leases for coal in the State with their capacity of production, the present level of average annual production, location of these pits and the status of reclamation of forest land where mining is completed is herewith submitted as Annexure-IV.</p>	<p>As replied by User Agency the details are attached in (Annexure – II).</p>	<p>The UA has explained their current scenario in their (ANNEXURE-II) reply.</p>
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iii.	<p>The "Tartora Nala" flows from west to east of the proposed mine boundary and needs to be diverted as per the approved Mining Plan. A justification for the diversion of the Nala needs to be submitted. The state shall examine the matter and give a reasoned justification as to why the diversion of nala is essential and why it is not possible to retain the nala within the mining lease with a safety zone along the nala. The State Govt. shall submit no objection certificate from irrigation/water resource department with regard to the proposed diversion of the said nala.</p>	<p>Tartora Nala, which is a seasonal Nala (3 km in length &amp; avg. 20m in width within Mining Lease area) flows from west to east through the southern part of the proposed Forest Diversion area. Up to 10th year Nala will be remain in its original course and only after 10th year of mining operations it will be diverted as per Approved Mine Plan &amp; Mine Closure Plan.</p> <p>It is essential to divert the Nala as because beneath the Nala approx. 2.5 million tonne Coal reserve is there and as per the approved Mine Plan &amp; Mine Closure Plan, coal reserve cannot be left out without mining.</p> <p>As per Approve Mine Plan &amp; Mine Closure Plan the detail diversion Plan of Tartora Nala and its Design &amp; Section are attached as Annexure-I</p> <p>If WBDCL retain the Nala as it is, with a safety zone of both side from the Nala, approx. 2.5 million tonne of coal reserve will be blocked under the Nala. As per Approved Mine Plan &amp; Mine Closure Plan, reserve cannot be left out without mining as this already taken within total extractable Coal reserve considering conservation point of natural resource and safe working of the mine.</p> <p>Justification for the diversion of the "Tartora Nala".</p> <p>There are mainly three reasons for diversion of Tartora Nala.</p> <p>Approved Mine Plan: As per approved Mine Plan &amp; Mine Closure Plan, the entire Nala falling within Core Mining Zone, therefore diversion is essential. Stage Plan of 10th to 15th year is Attached as Annexure-II.</p> <p>Coal Reserve: Beneath the Nala approx. 2.5 million tonne coal reserve is there, which cannot be left out as per Approved Mine Plan &amp; Mine Closure Plan by Ministry of Coal (MoC), Govt. of India.</p> <p>DGMS Safety Guidelines: As per DGMS circular No. DGMS/SOMA/(Tech)circular no. 02, dated 22nd May, 2024 Precaution against the danger of</p>	<p>Query raised by Divisional Forest Officer, Bankura (North) Division vide memo no. 2502/8-dated 25/11/2024 in order to address the EDS raised by MoEF &amp; CC vide letter no. I/85056/2024 dated 21st October, 2024. User agency replied point wise compliance on dated 29.11.2024. Wherein Tartora Nala need to be diverted as coal reserve falls beneath the Nala. The diversion of Nala will be after 10 years of mining operation as per approved mining plan &amp; mine closure plan and for that diversion plan submitted by User Agency as annexed (<b>Annexure-III</b>).</p>	<p>The UA and the DFO, Bankura North Division have explained their views clearly on shifting of 'Tartola Nala' which seems in evitable and un avoidable. The UA has given an undertaking for the same.</p>
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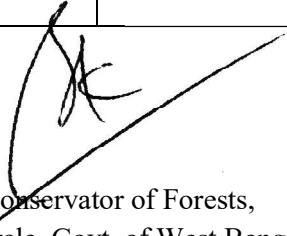
		<p>inundation due to the surface water &amp; underground water have been provided under Regulations 149 &amp; 150 of CMR,2017, &amp; DGMS Circular no. DGMS/SOMA/(Tech) Circular No. 02, dated 22nd May,2024 attached as</p> <p>Annexure-III</p> <p>Therefore, if Nala is not diverted there will be threat of inundation during rainy season due to overflow and inrush of water by breaking the embankment when Mining Operations approach towards Nala.</p>		
iv.	<p>The PCCF (HoFF) has recommended the proposal, however, keeping in view the fact that the area proposed is in high conservation zone and part of a landscape which is an elephant habitat, an in-depth analysis of the issue is needed, especially in view of the concerns raised by the Nodal Officer. The PCCF(HOFF) shall therefore submit his clear recommendations duly addressing the specific concerns raised by the Nodal Officer.</p>	<p>Total area of the Forest land proposed for diversion is 338.74 ha. Out of total area of this only 10-13% is Very Dense Forest whereas overall canopy density is 0.4 in entire forest area.</p> <p>In order to mitigate and balance the detrimental impact due to the mining activity, State Forest Department has Prepared the Comprehensive Wildlife Conservation Plan and Comprehensive Soil Moisture Conservation Plan with a financial outlay of Rs 90,13,54,162.00 &amp; of Rs. 16,23,65,280.00 respectively.</p> <p>Further Compensatory Afforestation (CA) Scheme with a financial outlay of of Rs. 22,27,54,343.00 has also been prepared for implementation. The entire implementation cost will be borne by the WBPDCCL.</p> <p>Further any additional plantation as compensatory measure, if directed by Forest Department, WBPDCCL commits to adhere the instruction in totality.</p> <p>In post closure of the mine, the used forest land will be reclaimed biologically &amp; technically and will be handed over to State Forest Department as per the prescribed norms.</p> <p>WBPDCCL, being a State PSU, is dedicated to compensate any impacts due to diversion of the Forest land as per directions/guidelines of Forest Department.</p> <p>In view of the above the proposal of Forest Diversion may kindly be considered as it is unavoidable</p>	<p>Out of 2100 ha (approx.) of forest area in mouza Baguli, Barapukhuria, Ghutgaria, Manohar, Sharjora &amp; Tikargram, 338.74 ha land is proposed for diversion.</p> <p>Out of total 338.74 ha area of this only 45 ha very dense, 107 ha moderately dense and 57 ha open forest area as per DSS analysis by MoEF &amp; CC.</p> <p>In order to mitigate and balance the detrimental impact due to minning activity, State Forest Department has prepared the comprehensive Wildlife Conservation Plan &amp; comprehensive Soil Moisture Conservation Plan with a Financial Outlay of Rs. 90,13,54,162.00 and of Rs. 16,23,65,280.00 respectively.</p> <p>Further compensatory afforestation scheme with a financial outlay of Rs. 22,27,54,343.00 has been prepared for implementation. The entire implementation cost will be borne by WBPDCCL.</p> <p>Further User Agency has committed to bear any additional plantation as compensatory measure, if directed by State Forest Department, WBPDCCL commits to adhere the</p>	<p>In order to mitigate and balance the detrimental impact due to mining activity, State Forest Department has prepared the comprehensive Wildlife Conservation Plan &amp; comprehensive Soil Moisture Conservation Plan with a Financial Outlay of Rs. 90,13,54,162.00 and of Rs. 16,23,65,280.00 respectively.</p> <p>Further compensatory afforestation scheme with a financial outlay of Rs. 22,27,54,343.00 has been prepared for implementation. The entire implementation cost will be borne by WBPDCCL.</p> <p>Further User Agency has committed to bear any additional plantation as compensatory measure, if directed by State Forest Department, WBPDCCL commits to adhere the instruction in totality.</p> <p>In post closure of the mine, the used forest land will be reclaimed biologically &amp; technically and will be handed over to State Forest Department as per the prescribed norms.</p> <p>With the above points, the WBPDCCL made bigger commitments to take care of the proposed mining area.</p>

		in order to meet the Power requirement of the State of West Bengal.	<p>instruction in totality.</p> <p>In post closure of the mine, the used forest land will be reclaimed biologically &amp; technically and will be handed over to State Forest Department as per the prescribed norms.</p> <p>WBPDCCL, being a State PSU, is dedicated to compensate any impacts due to diversion of the Forest land as per directions/guidelines of Forest Department.</p> <p>In view of the above the proposal of Forest Diversion may kindly be considered as it is unavoidable in order to meet the Power requirement of the State of West Bengal.</p>	In view of the above the proposal of Forest Diversion may kindly be considered as it is unavoidable in order to meet the Power requirement of the State of West Bengal.
v.	<p>The compensatory afforestation has been proposed over non-forest land. The regional Office in the SIR has reported that about 169.41 ha area in Jalpaiguri district is in the riverine area of Teesta river. The suitability of the same has to be ensured. Further, it has been informed that during site inspection, only some of the areas proposed for CA in Bankura District were physically inspected. The Regional Office needs to inspect the remaining areas proposed for CA and ensure their suitability. A detailed report in this regard is required from the Regional Office.</p>	<p>Availability &amp; Suitability of 338.84 Ha Non-forest land has been obtained from Concerned Authority for Compensatory Afforestation (CA) against 338.74 Ha of Forest Land Proposed for Diversion, which has been already uploaded in Part-I, Parivesh Portal.</p>	No comments.	No comments.



vi.	The State Government shall submit the information on the above-mentioned points to the Ministry along with a copy to the Regional Office. The Regional Office shall examine the same and keeping in view the recommendations of the Nodal Officer, West Bengal and the Regional Office shall submit its recommendations on the proposal to the Ministry.	This is related to State Forest Department and MoEF & CC, Regional Office (RO), Bhubaneswar.	Reply against point wise query raised is hereby submitted with a copy to the Regional Office.	As stated by the DFO, Bankura North Division.
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This is being submitted for your kind perusal.

  
Chief Conservator of Forests,  
Central Circle, Govt. of West Bengal

**Memo No. 1513/1(2)/ 3A-1**

**Dated, 02/12/2024**

Copy forwarded for kind information to:

1. The Principal Chief Conservator of Forests and Head of Forest Force (HoFF) Govt. of West Bengal.
2. The Principal Chief Conservator of Forests, Wildlife & Chief Wildlife Warden, Govt. of West Bengal.

  
Chief Conservator of Forests,  
Central Circle, Govt. of West Bengal



Government of West Bengal  
Directorate of Forests

**Office of the Divisional Forest Officer, Bankura (North) Division**

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Visit us at: [www.bankuraforest.in](http://www.bankuraforest.in)

Memo. No. 2580 /8-

Dated, Bankura, the 02/12/2024

From :: The Divisional Forest Officer,  
Bankura (North) Division.

To :: The Chief Conservator of Forest,  
Central Circle, West Bengal.

Sub :: Point wise compliance/ reply of EDS regarding Diversion of 338.74 ha  
of forest land for Coal Mining in Barjora North Coal Mine Block in  
favour of The West Bengal Power Development Corporation Limited,  
Bankura District, West Bengal (Online Proposal No.  
FP/WB/MIN/43000/2019).

Ref :: Ministry of Environment Forest and Climate Change, Forest  
Conservation Division, Government of India letter No. I/85056/2024  
dated 21st October,2024.

Sir,

In reference to the above-mentioned subject, this is informed that after examination of the said proposal by MoEF & CC, Forest Conservation Division, Govt. of India, few essential details were sought to proceed for the forest diversion proposal. Accordingly, EDS has been raised vide letter No. I/85056/2024 dated 21st October,2024.

Point wise compliance /reply is given below for your kind perusal.

Sr. No.	EDS Raised by MoEF&CC	Point Wise Compliance Report
i.	The CWLW while recommending the proposal has mentioned that the impact of the proposed project could be kept at manageable level using extraction technology that does not require blasting. In this regard, the state shall intimate whether the mining is proposed to be done with the extraction technology without blasting or otherwise.	As per reply of user agency and as per Geological Report and Graphic Litholog Data of Boreholes of Barjora (North) Coal Mines, the top most strata (6m-21m) approximately is alluvium and may not require blasting operation and can be excavated without blasting whereas in hard strata Blasting is essential for removal of overburden. Controlled deep hole blasting technique will be used with electronic detonator as per DGMS guidelines (Annexure-I), so that there will be no adverse imapcts of blasting on surrounding flora & fauna.


		<p>However, the coal winning will be done through surface minor without blasting method.</p> <p>The Blasting Operation will be done following the recommendations of Scientific Study of CIMFR &amp; Guidelines of DGMS in order to keep the ground vibration &amp; Sound etc. within threshold limit value so that no harms will cause to flora &amp; fauna. Adequate numbers of blast induced ground vibration monitoring instruments &amp; Noise Level Monitoring instruments will be used to monitor the Vibration &amp; Noise for continuous check and balance mechanism to ensure that there is no harm to flora &amp; fauna.</p> <p>Further Control blasting technique will be adopted to eliminate the possibility generation of fly rocks as per Scientific Study Report by CIMFR.</p> <p>User Agency committed to adhere the norms of air over pressure/noise threshold level 136 dB(L) as per DGMS standard as recommended in scientific study report by CIMFR.</p>
ii.	<p>A brief profile of the company/UA should be submitted giving details of their existing mining leases for coal in the State with their capacity of production, the present level of average annual production, location of these pits and the status of reclamation of forest land where mining is completed. Along with this, the State Government should also submit the details of all other coal mining leases with their capacity and average annual production and projected future requirements. They should fully justify the necessity of opening the proposed mining lease on forest land by giving details like total number of mines with mining lease, area, mineable, reserve life of mine, maximum production achieved in particular year against permission granted for production per year".</p>	<p>As replied by User Agency the details are attached in <b>(Annexure – II)</b>.</p>
iii.	<p>The "Tartora Nala" flows from west to east of the proposed mine boundary and needs to be diverted as per the approved Mining Plan. A justification for the diversion of the Nala needs to be submitted. The state shall examine the matter and give a reasoned justification as to why the diversion of nala is essential and why it is not possible to retain the nala within the mining lease with a safety zone along the nala. The State Govt. shall submit no objection certificate from irrigation/water resource department with regard to the proposed diversion of the said nala.</p>	<p>Query raised by Divisional Forest Officer, Bankura (North) Division vide memo no. 2502/8- dated 25/11/2024 in order to address the EDS raised by MoEF &amp; CC vide letter no. I/85056/2024 dated 21st October, 2024. User agency replied point wise compliance on dated 29.11.2024. Wherein Tartora Nala need to be diverted as coal reserve falls beneath the Nala. The diversion of Nala will be after 10 years of minning operation as per approved mining plan &amp; mine closure plan and for that diversion plan submitted by User Agency as annexed <b>(Annexure-III)</b>.</p>



		<p>The user agency undertakes that necessary approval will be obtained by user agency from concerned authority regarding diversion of Tartora nala as per 2<sup>nd</sup> Rev. Mine Plan of Barjora (North) Coal Mine (<b>Annexure-IV</b>)</p>
iv.	<p>The PCCF(HoFF) has recommended the proposal, however, keeping in view the fact that the area proposed is in high conservation zone and part of a landscape which is an elephant habitat, an in-depth analysis of the issue is needed, especially in view of the concerns raised by the Nodal Officer. The PCCF(HOFF) shall therefore submit his clear recommendations duly addressing the specific concerns raised by the Nodal Officer.</p>	<p>Out of 2900 ha (approx.) of total forest area, 338.74 ha forest land is proposed for diversion within the Mouzas of Barapukhuria, Ghutgaria, Manohar and Sharjora.</p> <p>Out of total 338.74 ha area of this only 45 ha very dense, 107 ha moderately dense and 57 ha open forest area as per DSS analysis by MoEF &amp; CC.</p> <p>In order to mitigate and balance the detrimental impact due to minning activity, State Forest Department has prepared the comprehensive Wildlife Conservation Plan &amp; comprehensive Soil Moisture Conservation Plan with a Financial Outlay of Rs. 90,13,54,162.00 and of Rs. 16,23,65,280.00 respectively.</p> <p>Further compensatory afforestation scheme with a financial outlay of Rs. 22,27,54,343.00 has been prepared for implementation. The entire implementation cost will be borne by WBPDCCL.</p> <p>Furher User Agency has committed to bear any additional plantation as compensatory measure, if directed by State Forest Department, WBPDCCL commits to adhere the instruction in totality.</p> <p>In post closure of the mine, the used forest land will be reclaimed biologically &amp; technically and will be handed over to State Forest Department as per the prescribed norms.</p> <p>WBPDCCL, being a State PSU, is dedicated to compensate any impacts due to diversion of the Forest land as per directions/guidelines of Forest Department.</p> <p>In view of the above the proposal of Forest Diversion may kindly be considered as it is unavoidable in order to meet the Power requirement of the State of West Bengal.</p>

v.	The compensatory afforestation has been proposed over non-forest land. The regional Office in the SIR has reported that about 169.41 ha area in Jalpaiguri district is in the riverine area of Teesta river. The suitability of the same has to be ensured. Further, it has been informed that during site inspection, only some of the areas proposed for CA in Bankura District were physically inspected. The Regional Office needs to inspect the remaining areas proposed for CA and ensure their suitability. A detailed report in this regard is required from the Regional Office.	Related to Regional Office (RO, MoEF & CC, Bhubaneswar.
vi.	The State Government shall submit the information on the above-mentioned points to the Ministry along with a copy to the Regional Office. The Regional Office shall examine the same and keeping in view the recommendations of the Nodal Officer, West Bengal and the Regional Office shall submit its recommendations on the proposal to the Ministry.	Reply against pointwise query raised is hereby submitted with a copy to the Regional Office.

This is for your kind perusal.

  
Divisional Forest Officer  
Bankura (North) Division.

Memo. No- \_\_\_\_\_/8-

Dated, Bankura, the \_\_\_\_ / \_\_\_\_ / 2024

Copy forwarded for kind information to:

1. The Additional Principal Chief Conservator of Forests, Nodal Officer, Forest Conservation Act, West Bengal.
2. The Chief Conservator of Forests, Forest Conservation Act, West Bengal.

**Sd/- D.M. PRADHAN, I.F.S.,**  
Divisional Forest Officer  
Bankura (North) Division.

# Annexure - I



भारत सरकार  
Govt. of India  
श्रम एवं रोजगार मंत्रालय  
Ministry of Labour & Employment  
खान सुरक्षा महाविभाग  
Directorate-General of Mines Safety



NO: 010985/EZ/Sitarampur Region No.I/Perm/2024/264869

Date: 22.08.2024

From  
Director of Mines Safety, SITARAMPUR REGION NO.I Region, EASTERN ZONE SITARAMPUR WEST  
BENGAL

To  
The Agent  
Barjora North Coal Mine, M/s West Bengal Power Development Corporation Ltd. (WBPDC), Village: Ghutgoria,  
Po: Ghutgoria, Barjora, Dist- Bankura M/s West Bengal Power Development Corporation Ltd. (wbpdcl), Village:  
Ghutgoria, Po: Ghutgoria, Barjora, Dist- Bankura

**Sub:Permission under Regulation 196(3) of the Coal Mines Regulations, 2017 to conduct controlled deep hole blasting within 500 m but beyond 100 m of 220KV HT line of M/s DVC and factory area not belonging to the owner at Barjora (North) Coal Mine of M/s. The West Bengal Power Development Corporation Limited (WBPDC) issued vide letter No.010985/EZ/Sitarampur Region No.1/Perm/2024/264869 dated 15.07.2024 – Modification thereof.**

Sir,

Please refer to this Directorate's Permission Letter No. No.010985/EZ/Sitarampur Region No.1/Perm/2024/264869 dated 15.07.2024 on the above mentioned subject and subsequent inspection made by the undersigned on 8th August, 2024.

In exercise of powers conferred on Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Regulation 196 (3) of the Coal Mines Regulations 2017, and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Section 6(1) of the Mines Act, 1952, I hereby modify the condition Nos. 6, 8, 19k of the permission issued by this Directorate vide letter No.010985/EZ/Sitarampur Region No.1/Perm/2024/264869 dated 15.07.2024. On modification, the modified condition Nos.6, 8, 19k shall be strictly complied with, which are as follows:

(1). **Condition No.6** - The explosive weight per delay and total explosive to be detonated in a blasting round shall not be more than the quantities specified below:

Distance of structures from the blast face (m)	Maximum explosive weight to be detonated in a delay	Total explosive weight to be detonated in a round	Maximum no. of hole charge	Height of charge column (m)	Stemming height (m)	Hole depth (m)	Drill hole dia (mm)	Initiation System
Considering 5 mm/s of PPV as the safe limit of vibration								
100-200	25	1125	45	1.2	4.8	6	153	Electronic detonator
200-400	25	1250	50	1.2	4.8	6	153	Electronic detonator
400-500	25	1250	50	1.2	4.8	6	153	Electronic detonator/NONEL

(2). **Condition No.8** – Sufficient number of blast induced ground vibration monitoring instruments to be maintained and monitoring of Peak Particle Velocity (PPV) of blast induced ground vibrations and the dominant frequency shall be done by the management of M/s The West Bengal Power Development Corporation Limited (WBPDC) for each round of shots fired.



(3). **Condition No.19.k.** - The blasting within 400 meters distance from structure shall be conducted using Electronic Detonator. Electronic detonator/NONEL system of initiation shall be used beyond 400 meters distance.

All other conditions stipulated in the permission letter issued vide this Directorate's letter No.010985/EZ/Sitarampur Region No.1/Perm/2024/264869 dated 15.07.2024 shall remain unchanged and shall be strictly complied with.

Your Sincerely,



IRFAN AHMED ANSARI (DIRECTOR - SITARAMPUR REGION NO.I)

THIS IS A SYSTEM GENERATED DOCUMENT, DOES NOT REQUIRE ANY SIGNATURE.



Director (Mining)  
Corporate Office,  
WBDCL



## ABOUT US

### WBPDCCL..... Powering Bengal

#### **Power Plants:**

The goal of WBPDCCL is to carry on the business of electric power generation and supply in the state of West Bengal. The thermal power plants under WBPDCCL are in Kolaghat, Bakreswar, Sagardighi, Santaldih and Bandel. The Registered & Corporate Office is at Bidyut Unnayan Bhaban, Salt Lake, Kolkata. WBPDCCL formed in July, 1985 with only one generating unit at Kolaghat having turnover of Rs. 64 Crore paced up further to Rs. 10974.42 Crore in the financial year 2023-24 with 17 Units. WBPDCCL is working in tandem with West Bengal State Electricity Distribution Company Limited (WBSEDCL) and Calcutta Electric Supply Corporation (CESC).

#### **Solar Projects:**

The WBPDCCL stepped into solar power generation with a 40 KW Rooftop Solar PV Plant at Bidyut Unnayan Bhaban in the year 2014. With the success of this small venture, WBPDCCL has entered in solar power generation in a big way by installing rooftop, ground mounted as well as floating Solar PV Plants. In the year 2018, 2 X 3 KW Solar Tree was installed at Bidyut Unnayan Bhaban.

Rooftop Solar PV Plants have been installed on the roofs of 71 buildings of its power plants. Total cumulative capacity of Roof Top Solar PV plant is 10.54 MWp considering all its Thermal Power Plants.

**Captive Coal Mines:** MoC GoI has allocated 6 coal blocks to WBPDCCL. Out of 6 WBPDCCL started coal production from 4 coal mines namely Pachwara(N), Barjora(N), Gangaramchak, Borjore and Tara(E & W) since 2018 onward. Reserve of Borjore exhausted Mine closure activity is under progress.

Deocha –Pachami-Dewanganj-Harinsingha Coal Block: GR and conceptual report prepared by CMPDIL.





# THE WEST BENGAL POWER DEVELOPMENT CORPORATION LIMITED

WBPDC

(A GOVERNMENT OF WEST BENGAL ENTERPRISE)

BIDYUT UNNAYAN BHABAN

3/C, LA BLOCK, SECTOR-III, BIDHANNAGAR, KOLKATA-700106



## Present Status of active Thermal Power Plants of WBPDC

PLANTS	CONFIGURATION (MW)	CAPACITY (MW)
STPS	2 X 250	500
KTPS	4 X 210	840
BKTPP	5 X 210	1050
BTPS	1 X 60	275
	1 X 215	
SGTPP (PHASE-I)	2 X 300	600
SGTPP (PHASE-II)	2 X 500	1000
WBPDC	4265	4265

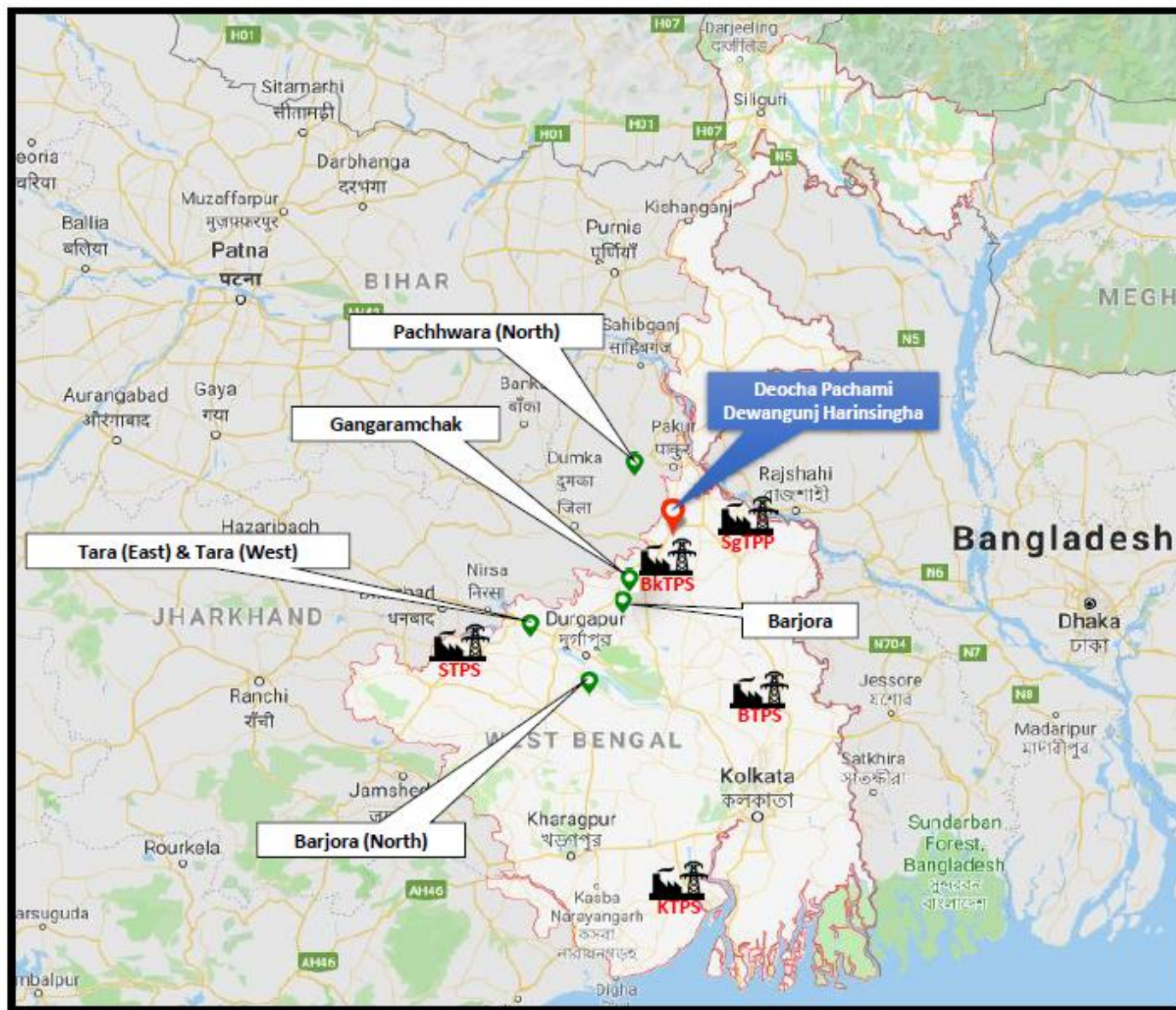
ANOTHER 660 MW SUPER CRITICAL UNIT WILL COME INTO OPERATION IN FY: 2024-25 AT SAGARDIGHI

The Details of Coal Blocks allotted by Ministry of Coal, Government of India to WBPDCI for supplying coal to its end use Thermal Power Plants located in the State of West Bengal.															
Coal Block Name	Location	Allotment Order No. & Date of Allotment	Existing Mining Lease (ML ) area(Ha)	Applied Lease(Ha)	Remaining Mineable Reserve(Million Tonne)	PRC(MTPA)	Production FY 23-24(MTPA)	Avg.Annual Production(MT)	Expected Production FY,24-25(MT)	Requirement of Coal,FY 24-25	Shortfall(Mill ion Tonne)	Reclamation Status of Forest Land			
												Total Forest Area(Ha)	Excavated Forest Area(Ha)	Back Filled/Reclaime d Area(Ha)	Bio-reclaimed Area(Ha)
PACHHWARA(NORTH)	Pakur,Jharkhand	103/12/2015/NA & 31.03.2015	1218	Nil	408.07	15	13.7	8.577	15	21.5	2	371.01	80.91	15.37	3.1
BARJORA (NORTH)	Bankura,West Bengal	103/7/2015/NA & 31.03.2015	260.14	422.9	65	3	1.12	1.117	1			Nil	Nil	Nil	Nil
TARA(EAST)&TARA(WEST)	Paschim Bardhaman,West Bengal	103/10/2015/NA & 31.03.2015	800	Nil	17.68	4	0.1	0.108	2.5			Nil	Nil	Nil	Nil
GANGARAMCHAK & GANGARAMCHAK -BHADULIA	Birbhum,West Bengal	103/8/2015/NA & 31.03.2015	47.65	101.77	5.63	3	3	1.439	1			101.77	78.73	65.03	29.18
BARJORA	Birbhum,West Bengal	103/6/2015/NA & 31.03.2015	58.49	Reserved Exhausted			0.5	0.421	0			Nil	Nil	Nil	Nil
DEUCHA-PACHAMI	Birbhum,West Bengal	CBA1-38011/2/2017-CBA1 & 17.12.2019	Nil	Nil	1240.353	Nil	Nil	Nil	Nil			Nil	Nil	Nil	Nil
									19.5						

  
 Director (Mining)  
 Corporate Office,  
 WBPDCI



**Locations of  
Coal Mines &  
Thermal Power  
Plants  
Of WBPDCCL in  
the State of  
West Bengal**



*[Signature]*  
Director (Mining)  
Corporate Office,  
WBPDCCL

## Chapter-3-Location, Topography &amp; Communication



### 3.11 Need for Shifting of 220 KV Mejia-Barjora Power Line and Tartola nallah:

An existing 220 KV power line belonging to Damodar Valley Corporation (DVC) passes through the eastern and northern part of the Barjora North Coal Block. The same needs to be diverted to have smooth and safe mining operation in this planned period. WBPDCCL has already initiated for this diversion and placed work contract to DVC vide no. HQ/M & C/ 6050000965; dt. 26.2.2019 and subsequently paid the requisite amount of Rs. 8.93 crores for diversion of this 220 KV HT line. The copy of the payment confirmation letter is furnished in **Annexure-XVIII G**. The approved layout plan for shifting of this HT line is furnished in **Plate No. XX**.

An existing Tartora nallah which flows from west to east, needs to be diverted along the southern edge of the proposed mine boundary. The elevation difference between the entry and exit points of this discharge scheme is about 8 meter. Total length of the diverted nala will be 6.30 km. Based on the present day flow parameters as observed at site, the base width and depth of the nala has been considered as 3 meter and 2.5 meter respectively. A more detail design needs to be done including cutting and filling requirement and vertical drop considerations before diversion of this nala. Chainage wise details of conceptual nala diversion is furnished Plate No XVIII. A declaration in this regard from M/S WBPDCCL has been furnished in **Annexure-XVIII H**.

RQP: Abhai Pratap Singh  
RQP. (No. 34011/(50)/2009-CPAM;  
Dt. 07.10.2009).

Ch-3 Page 12 of 12

Director (Mining)  
Corporate Office,  
WBPDCCL

हिटलर सिंह / HITLAR SINGH  
अवर सचिव / Under Secretary  
कोयला मंत्रालय / Ministry of Coal  
भारत सरकार / Govt. of India  
शास्त्री भवन / Shastri Bhawan  
नई दिल्ली / New Delhi





will be 187.85 ha of mined out areas. The stage plan at the end of 15<sup>th</sup> Year is furnished in **Plate No. XIII D.**

#### 15<sup>th</sup> Year of Mine Operation:

The mine will progress towards more south and almost cover the central part of the block. The total disturbed area at the end of this stage will be around 335.83 ha. Floor of Seam-I will be continued to maintain as quarry floor and the deepest part of the quarry will be at (-) 10 m RL. Both the backfilled dumping areas will be merged together to form a single dumping ground. Total backfilled dump area will be around 109.30 ha. Central Haul road will be pushed towards southward direction and it will terminate near the Infrastructure area at the coal stock yard. Diversion of TartoraNala is expected to be completed between 10<sup>th</sup> to 15<sup>th</sup> Year. At the end of 15<sup>th</sup> Year stage, TartoraNala will be shifted completely. Almost all the seams partially will be intersected in this period. Top soil spreading will commence in the northern patch of the merged dump. A water sump covering an area of 5.14 ha will be formed in between the two dumps.

The stage plan at the end of 15<sup>th</sup> Year is furnished in **Plate No. XIII E.**

#### 20<sup>th</sup> Year of Mine Operation:

The mining operation at this level will reach to its southernmost extension. The southern limit will be defined by the safety barrier of the diverted nala at a distance of 15 meter from the bank. Central haul road will be extended till the southernmost tip of the mine. The establishment section in the southern part of the proposed lease boundary needs to be vacated by this period. Depth of mining will follow the floor of Seam-I and will be limited to (-) 15 m RL. Besides the merged dump in the previous stage, two more dumps of 62.45 ha and 50.45 ha respectively will be created in either side of the central haul road. Height of both the dumps will remain below the base level, however will not raise above the average ground level. Water sump will remain intact at this level and will be utilized as mine water arrestor.

The stage plan at the end of 20<sup>th</sup> Year is furnished in **Plate No. XIII F.**

RQP: Abhai Pratap Singh  
RQP. (No. 34011/(50)/2009-CPAM;  
Dt. 07.10.2009).







Ch-5 Page 15 of 22

RQP: Abhai Pratap Singh  
Reg. No. 34011/(50)/2009-CPAM.  
Dt. 07.10.2009

Director (Mining)  
Corporate Office,  
WBPDCCL

HITLAR SINGH / HITLAR SINGH  
अवर सचिव / Under Secretary  
मंत्रालय नज्जलत / Ministry of Coal  
भारत सरकार / Govt. of India  
शास्त्री भवन / Shastri Bhawan  
नई दिल्ली / New Delhi

  
**MR. MITLAK SINGH**  
 Joint Director, Survey  
 Joint Director, Survey  
 Joint Director, Survey  
 Joint Director, Survey  
 Joint Director, Survey

KEY		
S. No.	DESCRIPTION	SYM.
1.	BLOCK BOUNDARY	
2.	ML BOUNDARY (000.24 ha)	
3.	SAFETY ZONE	
4.	KALA	
5.	INVERTED KALA	
6.	PROPOSED HT LINE	
7.	CHAIN START/END POINTS	

  
**Director (Mining)**  
 Office,

REFERENCES	
S. No.	NAME OF DRAWING
1.	Surface Plan
2.	Area Working Plan

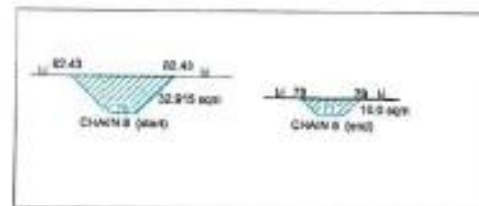
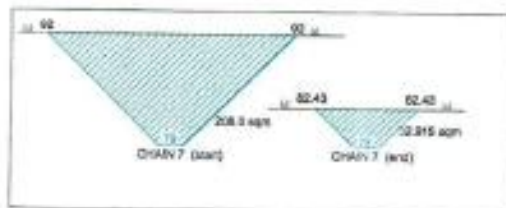
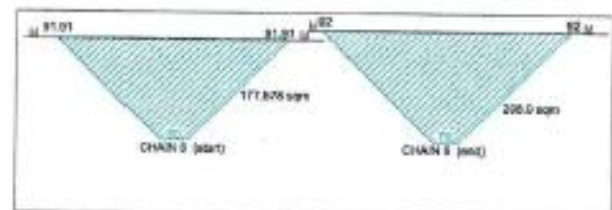
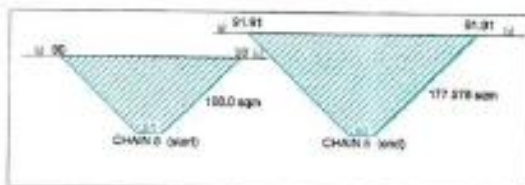
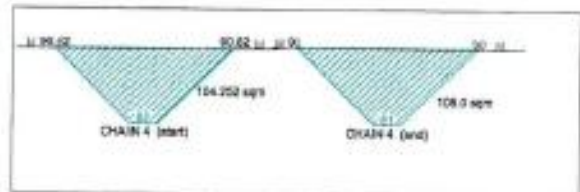
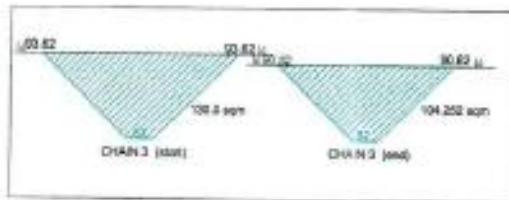
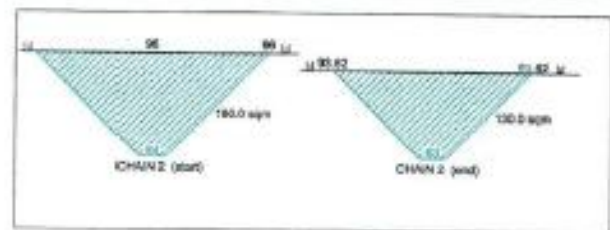
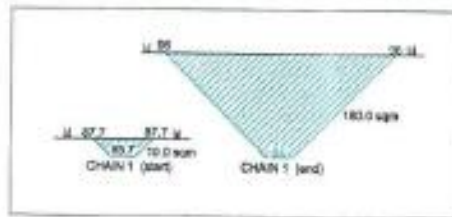
NOTE	
1.	ALL DIMENSIONS ARE IN METERS
2.	BASIC DATA ARE TAKEN FROM G.R. ON Surveyor's Map Sheet Prepared by O.P.S.
3.	PLAN IS SUBMITTED TO SHOW ACTUAL SITE CONDITION.
4.	ACTUAL POSITION OF RIVER MAY CHANGE TAKEN FROM SURVEY OF INDIA TOPOSHEET.

ROP:   
 Reg No 3451/1/ISO/2009-CP/MH  
 Dt 07.10.2009

West Bengal Power Development Corporation Limited			
PROJECT: <b>West Bengal Power Development Corporation Limited</b>			
DRAWN: <b>West Bengal Power Development Corporation Limited</b>			
CHECKED: <b>West Bengal Power Development Corporation Limited</b>			
APPROVED: <b>West Bengal Power Development Corporation Limited</b>			
DATE: <b>07.10.2009</b>			
SCALE: <b>1:1000</b>			
SHEET: <b>01 OF 01</b>			







Chain no.	Avg. of start & end areas of the chain (sq.m)	Length of influence of the chain (m)	Volume (cum)
Chain 1	95.0	624.978	59372.91 cum
Chain 2	155.0	628.811	97465.705 cum
Chain 3	117.126	628.811	73656.117 cum
Chain 4	106.126	628.811	66733.196 cum
Chain 5	142.789	628.811	89787.294 cum
Chain 6	192.789	628.811	121227.844 cum
Chain 7	120.457	628.811	75744.686 cum
Chain 8	21.487	628.811	13492.398 cum

<b>PLATE-XIXB</b>				
<b>West Bengal Power Development Corporation Limited</b>				
JOB TITLE : MINING PLAN INCLUDING MINE CLOSURE PLAN (REVISION 2) FOR BARJORA NORTH COAL MINE, BANKURA, WEST BENGAL				
SUBJECT : <b>NALA DIVERSION CROSS SECTIONS</b>	Activity	Name	Signature	Date
	Approved By	Sri Abhai Prasad Singh		
Prepared by:- A.A. United Exploration India Pvt. Ltd.	RQP NO	34011/150X2009-CPAM 01/05/18/1999		
Block 2A, 9th Floor, Souposoo Business Park, Newtown, West Bengal, 700158	SP - 1/580			

*hank*  
Director (Mining)  
Corporate Office,  
WBPDC

RQP/Abhai Prasad Singh  
Reg No 34011/150X2009-CPAM  
Dt 07/10/2009

RECEIVED  
DIRECTOR (MINING)  
CORPORATE OFFICE  
WBPDC  
07/10/2009



**WBPDCCL**

(A Government of West Bengal Enterprise)

**Chanchal Goswami**  
Director (Mining)

## **Annexure-IV**

**Full Title of the Project:** Diversion of 338.74 Ha Forest land for Non-forest purpose w.r.t. Barjora (North) Coal Mine of The West Bengal Power Development Corporation Limited.

**Proposal No. :** FP/WB/MIN/43000/2019

**Date of Proposal:** 04/12/2019

**Forest Land Proposed for Diversion:** 338.74 Hectare

### UNDERTAKING

(TO OBTAIN THE PRIOR NECESSARY APPROVAL FOR DIVERSION OF TARTORA NALA)

West Bengal Power Development Corporation Limited, Kolkata, the user agency, is hereby undertakes that, necessary approvals from concerned authorities will be obtained by User agency regarding diversion of Tartora Nala, as per approved in 2nd Rev. Mine Plan of Barjora (North) Coal Mine (if required) in connection with **"Diversion of 338.74 Ha Forest land for Non-forest purpose w.r.t. Barjora (North) Coal Mine of The West Bengal Power Development Corporation Limited"**.

Place : Kolkata

Date :08.02.2024

(Chanchal Goswami)  
Director(Mining)

**CHANCHAL GOSWAMI**  
DIRECTOR (MINING)

&  
OWNER OF THE MINE  
W B P D C L

THE WEST BENGAL POWER DEVELOPMENT CORPORATION LIMITED

Corporate Identity No. : U-40104WB1985SGC039154

"Bidyal Ummayin Bhuvan", Plot No. 3/C, LA-Block, Sector-III, Bidhannagar, Kolkata-700 106

Phone: No. (91) (33) 2335 0581/2339 3204/3294, Fax: (91) (33) 2335 0524 / 2339 3286, Mobile: 9425176555

E-mail : c.goswami@wbpdcl.co.in, Website : www.wbpdcl.co.in