Government of West Bengal Department of Forests Aranya Bhavan, Block LA-10A, Sector -III, Salt Lake City, Kolkata -700106

No.3391-FR/O/L/10T-1/2019

From: Suresh Kumar Jagat, IAS

Joint Secretary, Department of Forests

Govt. of West Bengal

Assistant Inspector General of Forests To:

Ministry of Environment Forest and Climate Change

(Forest Conservation Division)

Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj,

New Delhi-110003

Sub: Rejection of the proposal for diversion of 109.459 Ha of Forest Land at P.S Barabani, Paschim Bardhaman (District) at Gourangdih ABC Coal Mine allocated to WBMDTC Ltd by the Ministry of Coal, Government of India: Request for re-consideration.

Reference: Your Office letter nos. 8-03/2019FC dated 17.08.2023 & 8-03/2019 FC dated 24.04.2023

Proposal No. FP/WB/MIN/26869/2017

With respect to the above, I am directed to forward herewith the State Government's parawise reply and its recommendation for the re-consideration of the proposal as per clause 1.20 of the Handbook of the guidelines on Forest (Conservation) Act, 1980 and Forest Conservation Rules, 2003 regarding reopening/re-consideration of proposals.

The User Agency has submitted the para-wise reply on the observations made by the FAC Sub-Committee in the site inspection report of 29.05.2023 (enclosed).

The User Agency has requested the Forest Department for reopening/re-consideration of the proposal vide its memo no. MDTC/PM-5/144(F)/Pt-II/2590 dated 11.10.2023, with proper justification (enclosed).

The State Government hereby endorses the para-wise reply submitted by the User Agency and recommends the re-consideration of the proposal.

Enclo.: as stated

Yours faithfully,

Joint Secretary to the

Government of West Bengal

Dated: 20/10/2023

Dated: 20/10/2023

No.3394(4)/1-FR/O/L/10T-1/2019 Copy forwarded for information to:

- 1. The Principal Chief Conservator of Forests (HoFF), Government of West Bengal, Kolkata.
- 2. The Deputy Director General of Forest (Central), Regional Office, Bhubaneswar.
- 3. The APCCF & Nodal Officer (FCA), West Bengal, Kolkata.
- User Agency.

Joint Secretary to the Government of West Bengal

Government of India Ministry of Environment Forest and Climate Change (Forest Conservation Division) ******

Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi-110003 **Dated:** August, 2023

To,

Additional Chief Secretary (Forests),

Government of West Bengal, Aranya Bhawan, Block LA-10A, Sector-III, Salt Lake, Kolkata- 700106

Subject: Diversion of 109.459 ha of forest land for Open Cast Coal Mining Project at Gourangdih ABC coal mine in favour of WB Mineral Development and Trading Corporation under Durgapur Forest Division, West Bengal.

Madam/Sir,

I am directed to refer to the subject cited proposal and to convey that the instant proposal has been considered by Advisory Committee (AC) in its meeting held on 17.07.2023. The detailed minutes of the meeting are available on PARIVESH portal at www.parivesh.nic.in.

- 2. The Advisory Committee had detailed discussion and deliberation with Nodal officer (FCA), West Bengal and concerned Dy. Director General of Forest(C), Regional Office. After going through the facts of the proposal and the report of the sub-committee constituted on the recommendation of AC by Ministry on 24.04.2023, the Advisory Committee observed that:
 - i. The revised mining plan for the instant proposal is yet to be approved by the Ministry of Coal. In view of this, the land use needs be revised and their details with map are to be uploaded on PARIVESH portal.
 - ii. The safety zone along the periphery of the proposed mining area has not been marked by the user agency.
 - iii. The user agency has not explored the possibilities of identifying the dumping areas outside the forest area.
 - iv. The reply on Ministry's letter dated 24.04.2023, as sought on the recommendation of AC on 24.03.2023, has not yet been received from Govt. of West Bengal.
 - v. The Ministry vide its letter dated 20.06.2023 shared the sub-committee report with Government of West Bengal with a request for providing para-wise comments. The same was also not provided by the State Government.
- 3. Keeping in view the above observations, the recommendation of the Advisory

Committee and with the approval of the competent authority, it has been decided that the proposal cannot be acceded to in present proposition and the same is therefore rejected. The User agency will however be at liberty to submit the complete proposal *denovo*.

Yours faithfully,

Signed by Suneet Bhardwaj

Date: 17-08-2023 16:27:58

(Suneet Bhardwaj)

Assistant Inspector General of Forests

Copy to:

- 1. The Principal Chief Conservator of Forests (HoFF), Government of West Bengal, Kolkata.
- 2. The Deputy Director General of Forest (Central), Regional Office, Bhubaneswar.
- 3. The Sub- Office of MoEF&CC, Kolkata
- 4. The Nodal Officer (FCA), O/o the PCCF (HoFF), Government of West Bengal, Kolkata.
- 5. User Agency.
- 6. Monitoring Cell, FC Division, MoEF&CC, New Delhi.

Government of India Ministry of Environment, Forests and Climate Change (Forest Conservation Division)

Indira ParyavaranBhawan, JorBagh Road, Aligani, New Delhi - 1100 03 Dated: April, 2023

To,

The Principal Secretary, Government of West Bengal, Kolkata-700 098

Sub: Diversion of 109.459 ha of forest land for Open Cast Coal Mining Project at Gourangdih ABC coal mine in favour of WB Mineral Development and Trading Corporation under Durgapur Forest Division, West Bengal.

Madam/Sir.

I am directed to refer to the above subject proposal and to convey that the instant proposal has been considered by Advisory Committee (AC) in its meeting held on 24.03.2023. The minutes of the meeting are available on PARIVESH portal at www.parivesh.nic.in.

- 2. The AC, after detailed deliberation with Nodal officer (FCA), Govt. of West Bengal, Regional Officer, IRO, Kolkata and Chief Managing Director, WB Mineral Development & Trading Corporation and after going through the facts of the proposal, deferred the proposal with the following observations:
 - i. The total area involved in the project is 356.575 ha, comprising of 247.116 ha of non-forest land and 109.459 ha of forest land. Corresponding detail of area mentioned in the approved Mining Plan are different wherein total area has been mentioned as 370 ha comprising of 92.53 ha of forest land and 277.47 ha of non-forest land. The State Govt. has mentioned that as per Rule 22E (3) (i) of the Mineral Concession (Amendment) Rules, 2020, this change in land type within lease area comes under 'minor changes' in the approved mining plan and does not require fresh approval of the mining plan. The Rule 22E (3)(i) however refers to the "change in land type within the leased area" as a minor change, whereas in the instant case the area has been reduced from 370 ha to 356.575 ha. Moreover 65.09 ha additional area has been taken outside the block. The purpose/component wise breakup of the required area has to be in conformity with the mining plan. The same needs to be examined by the State Government. The State Govt. shall ensure to submit the mining plan as required under extant guidelines.
 - ii. A copy of approved Wild Conservation Plan shall be submitted.
 - iii. The State Govt. shall explore the possibility to exclude the area

- proposed for dumping on forestland and explore alternatives on adjoining non-forest land. The KML file of the area proposed for dumping shall also be submitted.
- iv. Since the composition of the Advisory Committee has now been changed and the sub-committee as constituted earlier could not visit the area, therefore, a committee consisting of Advisory Committee member Shri Manoj Pant and representatives of Ministry/IRO shall visit the area and submit report.
- 3. In view of above, Government of West Bengal is requested to provide their response on the points as indicated at para 2 [(i) to (iii)] above for further consideration of the proposal in the Ministry.

Yours faithfully,

Signed by Suneet Bhardwaj Date: 24-04-2023 10:16:19 Reason: Approved

Sd/-(Suneet Bhardwaj)

Assistant Inspector General of Forests (FC)

Copy to:

- 1. The Principal Chief Conservator of Forests, Government of West Bengal, Kolkata.
- 2. The Nodal Officer (FCA), O/o the PCCF, Government of West Bengal, Kolkata.
- 3. Dy. Director General (Central), Regional Office, Kolkata.
- 4. User agency.
- 5. Monitoring Cell of FC Division, MoEF&CC, New Delhi.

Recommendation of the State Government

All the EDS queries raised by the MOEFCC, GoI vide letter no. 8-03/2019FC dated 17.082023 has been addressed and supporting documentation has been attached in the Parivesh portal. The following clarification or additional information relating to the instant proposal of WBMDTCL's for diversion of 109.459 hectares of forest land under Durgapur Division is submitted for seeking prior approval under the provisions of Forest (Conservation) Act, 1980:

Sl. No	I Committee vide letter no	Comments of the State Government
i.	The revised mining plan for the instant proposal is yet to be approved by the Ministry of Coal. In view of this, the land use needs be revised and their details with map are to be uploaded on PARIVESH portal.	The revised mining plan for the instant proposal has been approved by the Ministry of Coal and is uploaded on Parivesh portal by the User Agency.
ii.	The safety zone along the periphery of the proposed mining area has not been marked by the user agency.	As per the approved revised mining plan submitted by the User agency, the safety zone along the periphery of the proposed mining area has been marked.
iii.	The user agency has not explored the possibilities of identifying the dumping areas outside the forest area.	The user agency has explored the possibilities of identifying the dumping areas outside the forest area but no such alternative non-forestland is available in the adjoining area of the Gourangdih ABC Coal Mine.
iv.	The reply on Ministry's letter dated 24.04.2023, as sought on the recommendation of AC on 24.03.2023, has not yet been received from Govt. of West Bengal.	The reply on Ministry's letter dated 24.04.2023, as sought on the recommendation of AC on 24.03.2023 is enclosed.
v.	The Ministry vide its letter dated 20.06.2023 shared the sub-committee report with Government of West Bengal with a request for providing para-wise comments. The same was also not provided by the State Government.	The Para-wise comments submitted dated 11.10.2023 by the User Agency in response to the Ministry's letter dated 20.06.2023 is endorsed by the Govt. of West Bengal and maybe accepted.

The Govt. of West Bengal has gone through the Final Inspection Report of the Sub-Committee constituted vide MoEFCC, GoI even number letter dated 24.04.2023 and endorses the para-wise replies furnished by the User Agency on all the observations made by the report Sub-Committee in its Final Inspection Report dated 31.05.2023.

The State Government recommends the proposal for its reconsideration and approval by the FAC, MoEFCC, GoI.

Additional Chief Secretary Department of Forests Government of West Bengal

Sl.	Observations of the Advisory Committee vide	Comments of the State
No	letter no. 8-03/2019FC dated 24.04.2023	Government
í.	The total area involved in the project is 356.575 ha, comprising of 247.116 ha of non-forest land and 109.459 ha of forest land. Corresponding detail of area mentioned in the approved Mining Plan are different wherein total area has been mentioned as 370 ha comprising of 92.53 ha of forest land and 277.47 ha of non-forest land. The State Govt. has mentioned that as per Rule 22E (3) (i) of the Mineral Concession (Amendment) Rules, 2020, this change in land type within lease area comes under 'minor changes' in the approved mining plan and does not require fresh approval of the mining plan. The Rule 22E (3)(i) however refers to the "change in land type within the leased area" as a minor change, whereas in the instant case the area has been reduced from 370 ha to 356.575 ha. Moreover 65.09 ha additional area has been taken outside the block. The purpose/component wise breakup of the required area has to be in conformity with the mining plan. The same needs to be examined by the State Government. The State Govt. shall ensure to submit the mining plan as required under extant guidelines.	The revised mining plan for the instant proposal has been approved by the Ministry of Coal and is uploaded on Parivesh portal by the User Agency.
ii.	A copy of approved Wild Conservation Plan shall be submitted.	A copy of the approved Wild Conservation Plan has already been submitted by the Nodal Officer/FCA, WB to IRO, Kolkata, MoEFCC, Gol vide No. 13733/L</2M-1334/2017 dated 27.03.2023. The same is enclosed and submitted again.
iii.	The State Govt. shall explore the possibility to exclude the area proposed for dumping on forestland and explore alternatives on adjoining non-forest land. The KML file of the area proposed for dumping shall also be submitted.	but no such alternative

Since the composition of the Advisory Committee has now been changed and the sub-committee as constituted earlier could not visit the area, therefore, a committee consisting of Advisory Committee member Shri Manoj Pant and representatives of Ministry/IRO shall visit the area and submit report.

iv.

A committee consisting of Advisory Committee member Shri Manoj Pant and representatives Ministry/IRO has already visited the area on 29.05.2023 and have submitted the Final Inspection Report. The same enclosed again for reference.

The State Government recommends the proposal for its reconsideration and approval by the FAC, MoEFCC, GoI.

Additional Chief Secretary Department of Forests Government of West Bengal



WEST BENGAL MINERAL DEVELOPMENT & TRADING CORPORATION LTD

(A Govt. of West Bengal Undertaking)

CIN: U14219WB1973SGC028707 Regd. Office: WBIIDC Building, 3rd Floor, DJ-10, Sector-II, Salt Lake, Kol-700091, Phone: 033-2359-0073

Email: wbmdtcl.gabc@gmail.com www.mdtcl.wb.gov.in

Date: 11.10.2023

Report of Compliance/Clarification of the observations of the FAC Sub-Committee field visit dated 20.06.2023 in connection with Diversion of 109.459 Ha of forest land for Open Cast Mining project at Gourangdih ABC Coal Mine in favour of West Bengal Mineral Development and Trading Corporation under Durgapur Forest Division, West Bengal

Α.	 Para – wise comments / reply on the ob inspection report of 29.05.2023. 	servations made by the FAC Sub- Committee in the site
Para No.	Observation	Comments
7.A.	The FAC in its meeting held on 31.03.2022 had sought the comments of the Chief Wildlife Warden, West Bengal on the likely impact of the project on the wildlife and the mitigation measures required to be taken if any. As informed by Nodal Officer West Bengal, the Wildlife Conservation Plan has been prepared and approved by PCCF (Wildlife) and submitted to State Environment Impact Assessment Authority (SEIAA), Department of Environment, Government of West Bengal vide Memo no. 3362/WL/2M-33(Pt-II)/2021 dated 23.11.2022 and also to IRO Kolkata on 27.03.2023 (Annexure 1).	The approved Wildlife Conservation Plan is uploaded at SINo. 10 of Additional information Details in FORM-A (Part-I) • WBMTDCL undertakes that Wildlife Conservation Plan would be implemented and the mitigation measures as stated would be followed. • WBMTDCL undertakes to spend the capital investment for activities which contribute to wildlife conservation as given in the Wildlife Conservation Plan.
7.B.	There appears to be a contradiction between the area as approved by the Ministry of Mining, Government of India and the area mentioned in the instant proposal. As informed by the user agency, a total of 370 ha area of the Coal Block comprising of 92.53 ha of forest land was allocated by the Ministry of Coal, Government of India for Gourangdih ABC Coal Mine. However as informed by the user agency, the revised proposal of the coal block from 370 ha to 356.575 ha and increasing the forest area from 92.53ha of the forest land to 109.459 ha is yet to be approved by the Coal Ministry.	Necessary modifications with regard to the requirement for diversion of 109.459 ha forest land and other land details have been made in the Approved Mining Plan (AMP-2023) which has been duly approved by the Ministry of Coal, Government of India. The said Approved Mining Plan -2023 is uploaded at SI. No. 9 of Additional information Details, FORM-A in PARIVESH Portal.
	increased transportation of coal, the response of the State Government may be examined.	Compliance on the same observation was replied to the previously raised observation of FAC dated 31.03.2022, the same is reproduced below: Detailed report of the traffic density survey both in up and down direction at three locations namely Baradang (0.9 km from the proposed mine in S direction), Majandih (1.6 km from the proposed mine in NE direction) and Dharaspur (3.5 km from the proposed mine in WSW direction) was carried out. Report of the survey is given at Enclosure-1. It will appear from the said report that the current road width is sufficient to sustain the present and additional

General Manager (Projects)
West Bengal Mineral Development

Trading Corporation Limited



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> Email: wbmdtcl.gabc@gmail.com www.mdtcl.wb.gov.in

7.D.	Regarding suggestion of the FAC, explore the possibility of evacuation coal using common, closed / pi conveyor, the financial implications of t proposal as per the study conduct through transaction advisor M/s KPN International as provided by the Sta Government is high and is not financial viable.	of pe he red MG					
7.E.	accordingly.	the 09.10.2023 and copy of the Approved Mining Plan 2023 has been uploaded at Sl. No. 9 of Additional information Details, FORM-A (Part-I). The tabular statement indicating various types of land use including dumping area has been revised. The land use map is uploaded at Sl. No. 11 of Additional information Details in FORM-A (Part-I).					
В.		nade by the FAC, the following other observations mentioned					
	at page-4 of Field Inspection Report of						
i.	The extent of the boundary of the forest area as marked in the uploaded map has to be in consonance with the records of the Forest Department, West Bengal. The user agency may be advised to revise the land use map as per the revised approved mining plan after verification and certification by the Forest Department and upload the same on the PARIVESH portal.	Land use map as per the revised approved mining plan – 2023 has been uploaded on the PARIVESH portal in FORM-A at S. No.11 under Additional Information.					
ii.	The user agency may also be advised to submit the schedule of Forest land of the said area as per the revised plan.						
iii.	The safety zone along the periphery of the proposed mining area has not been marked by the user agency.						
iv.	The user agency may be advised to explore the possibilities of identifying the dumping areas outside the forest area and may also revise tabular statement regarding redistribution of area accordingly.	Vide Memo No. 1716/DLRO-PAB/2023 dated 11.05.2023 [Enclosure-3] of the District Magistrate, Paschim Bardhaman, West Bengal, it has been clarified that no such alternative non-forest land is available in the adjoining area of the Gourangdih ABC Coal Mine.					
		anader (Pro)					

General Manager (Proj¹
West Bengal Mineral Developme
&
Trading Corporation Limited



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<i>/</i> .	No mining activity was observed on the proposed site on the date of inspection.	
vi.	There is no overlapping of boundaries with the adjoining mine on the eastern boundary of the proposed area.	Observations of the Sub-Committee. No comments required.
vii.	No instance of violation of FC Act, 1980 was observed during the inspection.	anechany.

General Manager (Projects)
West Bengal Mineral Development

Trading Corporation Limited

1. BASELINE STATUS OF TRAFFIC DENSITY

1.1 Monitoring location

The traffic density survey was conducted both in up and down direction at three locations namely Baradang (0.9 km from the proposed mine in S direction), Majandih (1.6 km from the proposed mine in NE direction) and Dharaspur (3.5 km from the proposed mine in WSW direction) on 03-04/01/2018, 07-08/01/2018 and 10-11/01/2018, respectively. The locations are shown in **Fig 1**.

1.2 Methodology

Traffic density was recorded continuously for 24 hours during the monitoring days by visual observation and counting of vehicles under six categories, viz., heavy motor vehicles (buses & truck), light motor vehicles, cycles, motor cycles & scooters, animal drawn vehicles and others. As traffic density on the road is low, one skilled person was deployed during each shift. At the end of each hour, fresh counting and recording was undertaken. Thus, total numbers of vehicles per hour under each category was determined. Report of the study is given at Annexure -1

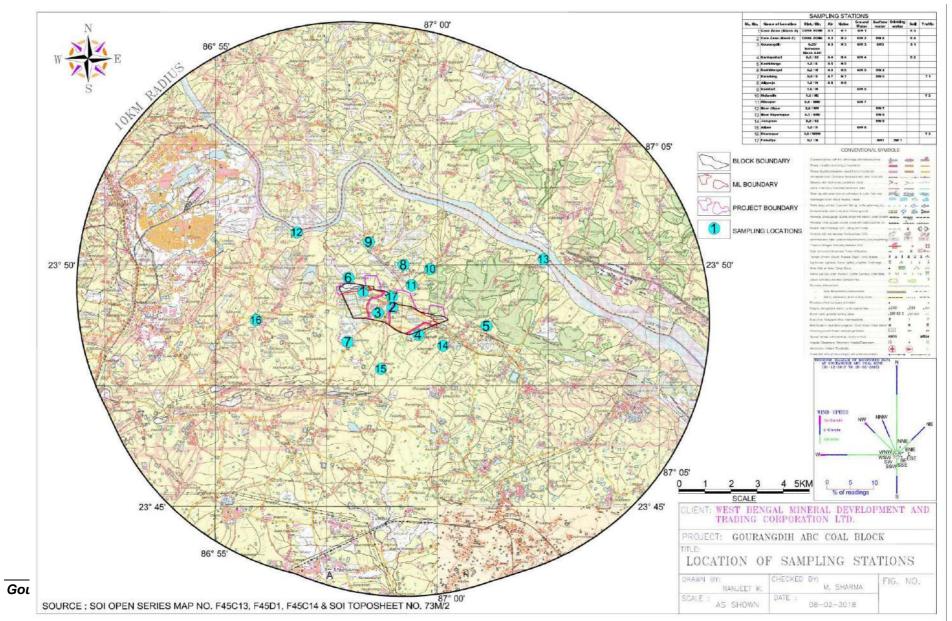
The result of presence of slow moving vehicles in traffic stream is that it affects the free flow of traffic. A way of accounting for the interaction of various kind of vehicles is to express the capacity of roads in terms of common unit. Therefore, the number of vehicles have been converted into "passenger car units" (PCUs) using the equivalency factor as per Table 1 of IRC: 64-1990 and the volume of traffic on the three routes are summarised in Table 1.

TABLE 1
TRAFFIC DENSITY

Code	•	Γ1	T	2		Г3	
Location	Bara	adang	Maja	ndih	Dharaspur		
	Observed count (up+down)	Equivalent PCU	Observed count (up+down)	Equivalent PCU	Observed count (up+down)	Equivalent PCU	
Cycles (E.F: 0.5)	857	429	1697	848.5	1350	675	
Motor Cycles & Scooters (E.F: 0.5)	2606	1303	1716	858	1615	807.5	
LMV (E.F: 1)	812	812	530	530	249	249	
Buses (E.F: 3)	205	615	116	348	0	0	
Trucks (E.F: 3)	557	1671	378	1134	71 213		
Animal Drawn Vehicles (E.F: 8)	0	0	0	0	4	32 ,	
Others (E.F: 1.5)	218	327	151	226.5	175	262.5	
Total	5255	5157	4588	3945	3464	2239	
Width of Road	5.	8 m	6.5	m	3	m	
DSV*(Table 3, 4, 5 and section 10.3 as per	60	000	60	00	2000		
IRC:64-1990) in PCU/DAY							
Maximum Capacity as per In PCU/day	12	000	120	000	4000		
IRC 64-1990, section 6.1= %Utilization DSV*0.5 % Utilisation	4	3.0	32	.9	50	6.0	

DSV(Design Service Volume): it is defined as the maximum hourly volume (Vehicles per hour) at which vehicles can reasonably be expected to traverse a point or uniform section of a lane or roadway during a given time period under the prevailing roadway, traffic and control conditions while maintaining a designated level of service.

Fig - 1



PageZ

The condition of the road at Baradang and Majandih is good and it is well maintained. Whereas the road near Dharaspur is having road width only 3 m, which needs widening and maintenance. From the perusal of Table 3.16, it is found that at Baradang, current utilisation is 43.0% of maximum capacity of the road, at Majandih the current utilization is 32.9% of maximum capacity of the road and at Dharaspur, the current utilization is 56.0% of maximum capacity of the road.

2. ANTICIPATED IMPACT DUE TO TRAFFIC AND MITIGATION MEASURES

There in only one outgoing material, which is coal. The transportation shall be carried out through road either directly to end user or till railway siding by tipping trucks/ dumper having capacity 25 T. Total material to be transported is estimated around 7576 TPD (assuming total working days as 330 and production 2.5 MT of coal in a year). Since the end users will be various industries across the different states, hence the direction of movement of trucks cannot be exactly identified. Certain assumptions have been made with respect to the routes shown in **Fig 2**. The assumptions made are as follows:

- (i) Transport of coal directly till end user by road via Asansol-Gourangdih road. 1 MTPA coal shall be transported through this road. Approximately 244 trucks (to and fro) will move through this road. This route has been called as "Route-2" in **Fig 2**.
- (ii) Transportation of coal via road to any of the four railway sidings, namely, Bonjemehari, Barabani, Charanpur or Chinchuria railway siding. Approximately 1.5 MTPA will be moved to consumers through this road-rail combination. Approximately 364 trucks will move on these routes called as Route 1, Route 3, Route 4 and Route 5 of **Fig 2.**

The traffic survey was conducted as per IRC: 9-1972 at three locations namely Baradang, Majandih and Dharaspur in the up and down directions. Baradang location falls on Gourangdih-Asansol road (Route-2) and Dharaspur location falls on Rupnarayanpur-Gourangdih road i.e connecting road (Route-1) to Bonjemehari railway siding through which coal transportation is proposed. There will be an impact on carrying capacity of these two roads due to additional traffic load. Therefore, the adequacy of the road to support the additional traffic, its maximum capacity and the percentage utilization of the maximum capacity has been calculated. This has been done with respect to existing and future traffic load and the increment in utilization of maximum capacity has been calculated in **Table 2**

FIG 2: THE PROPOSED RAILWAY SIDING AND CONNECTING ROADS TO BE USED FOR TRANSPORTATION OF COAL

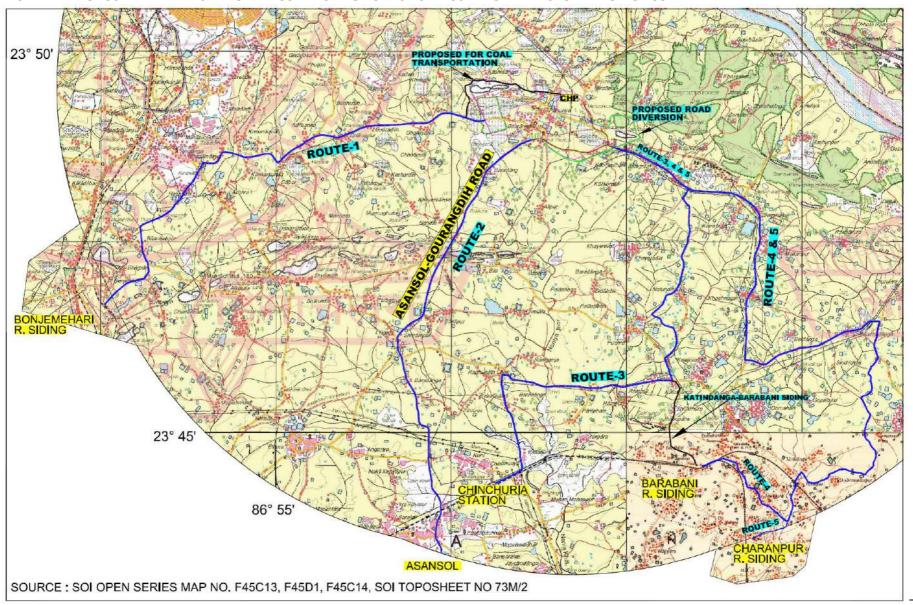


TABLE 2

OBSERVED EXISTING, ADDITIONAL TRAFFIC AND THEIR % UTILISATION

Code	Location	Existing Traffic	Additional traffic	Resultant traffic	Width of road	DSV# PCU/	М	aximum cap	aximum capacity (MC)##		
		(PCU/Day)	proposed (PCU/Day)	(PCU/ Day)			in PCU/ day				
		January, 2018	(г солдау)	Day			,	Current in January, 2018	Resultant future	Incre- ment	
а	b	С	d	e=b+c	f	g	h	i w.r.t c	j w.r.t e	k=j-i	
T1	Baradang	5157	732	5889	5.8 m	6000	12000	42.975	49.1	6.1	
Т3	Dharaspur	2239	1092	3331	3 m	2000	4000	55.9	83.8	27.3	

Note-

Design Service Volume (DSV) in PCU/day as per Table 3&4 of IRC:64-1990 ## Maximum capacity as per IRC 64-1990, section 6.1 = DSV/0.5, in PCU/day

It can be seen in the above table that the resultant traffic load on Asansol-Gourangdig road (Route-2) at Baradang loacation will be 49.1 % of the Maximum capacity of the road. Where as on Rupnarayanpur-Gourangdih road (Route-1) at Dharaspur location, the resultant traffic load will be 83.8 % of Maximum capacity the roads. Thus it can be said that the current road width of both the location is sufficient to sustain the present and additional traffic.

2.2 Road diversion

There are two existing road passing through the core zone namely,

- (i) Road-1: **Asansol-Gourangdih road connecting Runakura ghat via Jamgram** is having width of about 7 m (PWD road), passing through the eastern part of proposed Gourangdih C quarry.
- (ii) Road-2: **Rupnarayanpur-Gourangdih road** is having width of about 3 m (Village road), connecting Gourangdih and Rupnarayanpur, passing through the western portion of Gourangdih-A quarry.

These two roads will get excavated during mining operation. Hence, for uninterrupted traffic flow, diversion of these roads is necessary which shall be as follows:

(i) Road-1: Asansol-Gourangdih road, connecting Asansol to Runakuraghat via Jamgram village is proposed to be diverted towards further east of the Gourangdih quarry-C.

(i) Road-2: The Rupnarayanpur-Gourangdih road is proposed to be diverted towards further west of the Gourangdih quarry-A and will be connected to Asansol-Gourangdih road.

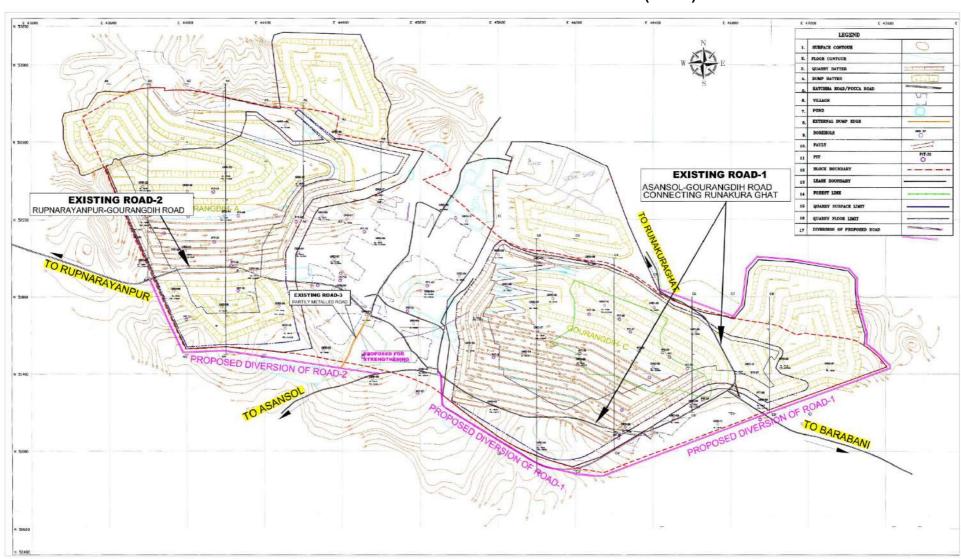
Both the roads will be reconstructed after diversion to a road width equivalent to their existing width.

Apart from the road diversion, road from Gourangdih village to proposed diversion of Rupnarayanpur-Gourangdih road (about 300 m in length), is also proposed to be made black topped/CC road (Road 3). Partly metalled road already exists on the road, which will have to be further strengthened.

The proposed diversion of Road-1 and 2 and strengthening of Road 3 are shown in 15th year stage plan given in **Fig 3**.

The impact will be there only on the path of the road due to alignment change but there will not be any adverse impact. Tree plantation is proposed along both the sides of the diverted road routes, which will act as an absorber of dust and noise pollution and also will improve the aesthetic view of the area.

FIG 3: 15TH YEAR STAGE PLAN SHOWING EXISTING ROADS (NO. 1&2) PASSING THROUGH ML AREA AND THE PROPOSED DIVERSION OF THESE ROADS AS WELL AS THE ROAD (NO. 3) TO BE STRENGTHENED



(A Government of West bengal Undertaking)
13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087
GOURANDIH ABC COAL MINE

Summary of Involved Plots in Mining Lease Area for Gourangdih "A" &"C" Block Area
P.S-Baraboni, District- Paschim Burdwan

Coal Block	Name of Mouza	Mouza J.L	RAYTEE								
	Dioutin	No	Agri	Non Agri	Bastu	Water Body	ECL	FOREST	Govt/Vested	TOTAL (ACRE)	
Gourangdih A	DASKIARI	3	12.584	5.665			-				
	PANURIA	10	99.403	56.197	7.781	6.000			0.201	18.4500	
	ALIGANJ	11	4.52	0.939	1.101	6.029		159.057	53.817	382.2840	
Т	JAMGRAM		20	34.29	7.58	0.011	2022		STATE OF THE STATE	0.065	5.5240
	KATAPAHARI	9	20.207	8.455	0.466	3.032	4.569	37.211	17.345	104.0380	
	PANURIA	10	110.646	13.644		0.552	10.164	57.673	24.164	121.6810	
	Total (Acre)		281.65	92.48	11.598	14.188	0	16.538	82.525	249.1390	
	Total (Ha)		113.982	37.426	19.856	23.801		14.733 270.479 5.962 109.461	178.117	881.116	
				31.420	8.036	9.632	5.962		72.083	356.583	



(A Government of West bengal Undertaking) 13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087 GOURANDIH ABC COAL MINE (BLOCK A R. C.)

MACHIZA.		CHANGE AND COME INMAE PROCK	-A & C)		
MOUZA:	PANURIA	J.L. NO:	VITEN		
			X(TEN)	Sheet No :	

P.S. - BARABONI, DISTRICT- BURDWAN INVOLVED PLOTS IN MINING LEASE AREA

	Plot No			Total Area	Required									
SL No	R.S.	L.R.	Class of Land	in	Area	Agri	_	ATEE	144-1-5-1					
1472	649	hada a la	FOREST	0.4	0.393	7611	Non Agri	bastu	Water Body	Govt./Vested	ECL	Forest	Total	Rem
1473	2266P		FOREST	9.46	3.109						STORY	0.393	0.393	
1474	822P		FOREST	35.32	0.875					and the second		3.109	3.109	
1475	822P		FOREST	35.32	1.223							0.875	0.875	Energy.
1476	2218		FOREST	0.59	0.600						LE M	1.223	1.223	
1477	2209		FOREST	0.07	0.063							0.600	0.600	
1478	2208		FOREST	0.59	0.566						1111111	0.063	0.063	
1479	2207		FOREST	0.23	0.195							0.566	0.566	
1480	2201		FOREST	6.08	2.318				9			0.195	0.195	
1481	647		FOREST	0.91	0.862						-	2.318	2.318	
1482	644		FOREST	7.35	7.171							0.862	0.862	
1483	636		ROAD	1.23	1.122							7.171	7.171	
1484	633		FOREST	8.221	8.221							1.122	1.122	
1485	634		FOREST	8.14	4.216							8.221	8.221	
1486	632		FOREST	1.56	1.238	-						4.216	4.216	
1487	592		FOREST	0.88	1.829							1.238	1.238	
1488	2281P		FOREST	8.68	2.392				1			1.829	1.829	
1489	2270P		FOREST	2.55	0.937							2.392	2.392	
1490	2276P		FOREST	30.2	16.007							0.937	0.937	
1491	2268		FOREST	9.45	10.749				-			16.007	16.007	
1492	643		FOREST	4.73	4.732							10.749	10.749	
1493	638		FOREST	12.61	12.409							4.732	4.732	
1494	250/2702		FOREST	5.75	5.839		-					12.409	12.409	
1495	253P	3	FOREST	41.5	36.558							5.839	5.839	
1496	248P		FOREST	36.7	35.434				3			36.558	36.558	د
				1 30.7	33.434			0		- ALM	7	35.434	35.434	

Reforms Officer Barabani, Burdwan

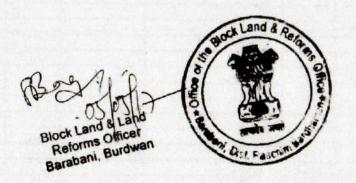
(A Government of West bengal Undertaking) 13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087

GOURANDIH ABC COAL MINE(BLOCK-A & C)

	MOUZA:	PANURIA	J.L. NO:	X(TEN)	Sheet No :
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INVOLVED PLOTS IN MINING LEASE AREA

	Plot No			Total Area	Required	RAYATEE								
SL No	R.S.	L.R.	Class of Land	in	Area	Agri	Non Agri	Bastu	Water Body	Govt./Vested	ECL	Forest	Total	Rem
1497	1357		FOREST	4.9	4.932			119 19 19				4.932	4.932	
1498	1373		FOREST	0.03	1.490							1.490	1.490	
1499	1367		FOREST	0.59	0.618							0.618	0.618	
1500	1366		FOREST	0.68	0.680							0.680	0.680	
1501	1757		FOREST	6.05	6.160							6.160	6.160	
1502	1371		FOREST	1.95	0.363						- miciens	0.363	0.363	
1503	1366/2729		FOREST	1.38	1.428							1.428	1.428	
1504	1362/2728		FOREST	0.78	0.867	(Calling Services)						0.867	0.867	
					175.595	0.000	0.000	0.000	0.000	0.000	0.000	175.595	175.595	



(A Government of West bengal Undertaking) 13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087 GOURANDIH ABC COAL MINE(BLOCK-A & C)

MOUZA: KATAPAHARI J.L. NO: IX(NINE) Sheet No:

P.S. - BARABONI, DISTRICT- BURDWAN

INVOLVED PLOTS IN MINING LEASE AREA

	Plo	t No		Total Area	INVOLVED			YATEE					T	T
SL No	R.S.	L.R.	Class of Land	in	Required Area	Agri	Non Agri	Bastu	Water Body	Govt./Vested	ECL	F	Tatal	-
1530	131P		BAID	0.69	0.574	0.574		Dusta	water bouy	dovi./ vested	ECL	Forest	Total	Re
1531	127		BAID	0.67	0.688	0.688							0.574	-
1532	124	700.30	DANGA	0.31	0.295	0.000	0.295				-		0.688	-
1533	123	To be the	PUKUR	0.57	0.552		0.233		0.553				0.295	-
1534	122		PUKUR PAR	0.05	0.078		0.078		0.552				0.552	
1535	221		BAID	0.05	0.043	0.043	0.078						0.078	
1536	120		KANALI	4.5	4.766	4.766							0.043	
1537	119		DANGA	0.16	0.166	4.700	0.166				-		4.766	
1538	118		BAID	0.82	0.811	0.811	0.166						0.166	
1539	117		BAID	0.17	0.17	0.17							0.811	
1540	116		BAID	0.14	0.155	0.155	-						0.17	
1541	115		BAID	0.3	0.342	0.342							0.155	
1542	114		BAID	0.15	0.153	0.153							0.342	
1543	113		BAID	1.8	1.81	1.81							0.153	
1544	111		DANGA	0.41	0.412	1.81	0.440						1.81	
1545	110		BAID	0.11	0.103	0.103	0.412						0.412	
1546	109		DANGA	0.4	0.396	0.103	2205		,				0.103	
1547	108		DANGA	0.570	0.578		0.396						0.396	
1548	103P		BAID	4.560	3.689	3 500	0.578	-					0.578	
1549	99		DÁNGA	5.160	5.230	3.689	5 220				- 145.		3.689	
1550	105		FOREST	2.320	2.427		5.230						5.230	
1551	102P		FOREST	5.560							AN I	2.427	2.427	
1552	98		FOREST	6.630	5.214							5.214	5.214	
1553	313		FOREST	0.610	6.573					000		6.573	6.573	
1554	12P		FOREST	18.850	0.600			3	and working to	A Land A S	-	0.600	0.600	V.
			TOREST	1 10.850	18.056					300		18.056	18.056	

Block Land & Land Reforms Officer Barabani, Burdwan

(A Government of West bengal Undertaking) 13, Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087 GOURANDIH ABC COAL MINE(BLOCK-A & C)

MOUZA: KATAPAHARI J.L. NO: IX(NINE) Sheet No:

P.S. - BARABONI, DISTRICT- BURDWAN INVOLVED PLOTS IN MINING LEASE AREA

	Plo	t No		Total Area	INVOLVED				•			r		
SL No	R.S.	L.R.	Class of Land	in	Required Area	Agri	Non Agri	YATEE	T					
1555	9		FOREST	18.180	18.288	Agri	Non Agn	Bastu	Water Body	Govt./Vested	ECL	Forest	Total	Re
1556	7		FOREST	1.170	1.223		-					18.288	18.288	1
1557	6		FOREST	0.060	0.054							1.223	1.223	1
1558	4	1	FOREST ·	1.170	1.147				AUSTRALIA			0.054	0.054	1
1559	1		FOREST	4.080	4.092							1.147	1.147	1
1560	746		MINES	5.240	5.474						The Alle	4.092	4.092	1
1561	749P		MINES	4.400	3.505		-				5.474		5.474	
1562	747P		HOSPITAL	1.150	1.185						3.505		3.505	1
1563	106		VITI	0.200	0.203						1.185		1.185	
1564	93P		ROAD	3.470	1.260					0.203			0.203	1
1565	93P		ROAD	1.187	1.187					1.260			1.260	-
1566	748P		BASTU	0.010	0.014					1.187		5/23/8/9	1.187	
1567	710		KROAD	0.220	0.261				-1-2-10	0.014			0.014	
1568	700	THE STATE OF	BAID	0.800	0.807					0.261			0.261	
1569	701		BAID	0.660	0.798					0.807			0.807	
1570	141P		DANGA	1.260	0.328					0.798			0.798	
1571	350P	Fig. 14 Et a	DANGA	1.240	0.947				1	0.328	ES/EIIIE		0.328	
1572	133P		RAIL LINE	2.080	1.618		18.0			0.947			0.947	
1573	130P		BÁSTU	0.490	0.504					1.618			1.618	
1574	129		KANALI	1.230	1.312					0.504			0.504	
1575	125	7	BAID	1.660	2.503					1.312			1.312	
1576	128		PATH	0.370	0.365					2.503			2.503	
1577	107		PATH	0.370						0.365			0.365	
1578	104		RAILWAY	1.070	0.300	3				0.300			0.300	
1579	101		ABANDED MINE	2.250	1.079					1.079			1.079	
				1 230	2.266					2.266	Land	10	2.266	

Reforms Officer

Barabani, Burdwan

(A Government of West bengal Undertaking) 13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087 GOURANDIH ABC COAL MINE(BLOCK-A & C)

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MOUZA:	JAMGRAM	J.L. NO:	XX(TWENTY)	Sheet No :	

P.S. - BARABONI, DISTRICT- BURDWAN

INVOLVED PLOTS IN MINING LEASE AREA

	Plot No		Total Are		a		RAY	YATEE						
SL No	R.S.	L.R.	Class of Land	in	Required Area	Agri	Non Agri	Bastu	Water Body	Govt./Vested	ECL	Forest	Total	Ren
1663	192		BAID	0.820	0.839	0.839	Transport of the second			Maren a series			0.839	
1664	188		BAID	0.750	0.743	0.743							0.743	
1665	185		BAID	1.240	1.204	1.204							1.204	
1666	180P		PUKUR PAR	0.520	0.272		0.272					Pels L	0.272	
1667	179P		POND	4.620	2.548				2.548			- No. 18	2.548	
1668	219P		FOREST	5.840	2.634						CONTRACT OF	2.634	2.634	
1669	176P		FOREST	23.455	23.455							23.455	23.455	
1670	178		FOREST	12.250	9.990							9.990	9.990	
1671	187		FOREST	1.410	1.132							1.132	1.132	
1672	227		BAID	0.250	0.281						0.281		0.281	
1673	190	A STATE OF	MINES	0.950	0.981						0.981		0.981	
1674	189		MINES	0.210	0.205						0.205		0.205	
1675	184		MINES	0.110	0.118						0.118		0.118	
1676	183P		MINES	2.836	2.836						2.836		2.836	
1677	181P		GLP	2.270	0.148						0.148		0.148	
1678	5891		BAID	0.222	0.222	0.222						1	0.222	STATE OF THE PARTY
1679	5893		BAID	0.159	0.159	0.159	Can have						0.159	
1680	5919		DANGA	0.291	0.291		0.291						0.291	
1681	5788		KANALI	0.062	0.062	0.062					200		0.062	
1682	5894		BAID	0.019	0.019	0.019							0.019	
1683	5789		KANALI	0.450	0.450	0.450						Transport	0.450	
1684	5891		BAID	0.020	0.020	0.020	A A A	1					0.020	
1685	5890		BAID	0.030	0.030	0.030		Preside					0.030	
1686	5895		KANALI	0.018	0.018	0.018				3			0.018	
1687	5743		KANALI	0.439	0.439	0.439				(all	nd &		0.439	

Block Land & Land Reforms Officer Barabani, Burdwan H

অতিরিক্ত জেলা শাসক এবং জেলা ভুমি

ভূমি সংস্কার আধিকারকের করণ পশ্চিম বর্ধমান বিবেকানন্দ সরণি, রামকৃষ্ণ মিশণ, কন্যাপুর আসানসোল, পিন – ৭১৩৩০৫

ইমেল - dlropaschimbardhaman@gmail.com

Enclosure-3
Office of the Additional District Magistr And

District Land & Land Reforms Officer Paschim Bardhaman

Vivekananda Sarani, Ramkrishna Mission, Kan Asansol, PIN - 713305

Email - dlropaschimbardhaman@gmail.com

Memo No.

1716

/DLRO-PAB/2023

11. 05-23 Date:

To The Chairman & Managing Director West Bengal Mineral Development & Trading Corporation Ltd.

> Sub :- Regarding availability of non- forest land for dumping of Overburden of Gourangdih ABC Coal mine.

Ref: His Office Memo no.MDTC/PM-5/144(F)/Pt-II/1083 dated 27/04/2023

Reference above, this is to inform You, that as per report of BL&LRO Barabani vide his Office memo no. 752 dated 04/05/2023, no such encumbrance free land is available in the adjoining area. This is for his kind information and necessary action.

Your's faithfully

District Magistrate Paschim Bardhaman



WEST BENGAL MINERAL DEVELOPMENT & TRADING CORPORATION LTD

(A Govt. of West Bengal Undertaking)

CIN: U14219WB1973SGC028707 Regd. Office: WBIIDC Building, 3rd Floor, DJ-10, Sector-II, Salt Lake, KoI-700091, Phone: 033-2359-0073

> Email: wbmdtcl.gabc@gmail.com www.mdtcl.wb.gov.in

Memo No: MDTC/PM-5/144(F)/Pt-II/2590

Date:11.10.2023

To
The Additional Chief Secretary
Department of Forest, Government of West Bengal
Aranya Bhawan, LA-10A Block, Sector-III,
Saltlake, Kolkata-700 106

Sub: Request for reopening/reconsideration of Proposal No. FP/WB/MIN/26869/2017 for diversion of 109.459ha forest for Gourangdih ABC Coal Mine of WBMDTCL.

Ref: Letter in Memo No. 8-03/2019FC dated 17.08.2023 of AIG Forests, MDEFCC, New Delhi [Annexure-1]

Sir,

In reference to the above, this is to submit the following for your kind consideration;

- i) The coal mine was allocated to WBMDTCL by the Ministry of Coal, Govt. of India in September, 2016 along with an approved mining plan prepared in 2011 by the prior allottee of the coal block who did not operate the mine.
- ii) Operationalisation of the mine, inter alia, required diversion of 109.459 Ha of forest land (protected forest). Accordingly, WBMDTCL made the above referred Application (Proposal No. FP/WB/MIN/26869/2017) through Parivesh Portal in July-2017 for diversion of 109.459 Ha forest.
- After passing through several stages of scrutiny, field inspections, EDS etc. by the concerned authorities of the State and Central Govt. and subsequent compliance/clarifications by WBMDTCL, the proposal was forwarded by State Government to MoEFCC Head Office on 10.03.2023. [Ref. EDS History given at Annexure-2].
- iv) The Advisory Committee (AC), MoEFCC, New Delhi considered the proposal in its meeting on 24.03.2023 and, *inter alia*, observed the following;
 - a) There were contradictions in respect of the pre-mining land uses mentioned in the 2011 mining plan and those of the FC application and advised submission of mining plan as per extant guideline.
 - b) The AC in its said meeting on 24.03.2023 also constituted a Sub-Committee to visit the area and submit report.
- Immediately thereafter on 30.03.2023, WBMDTCL had applied for revision of the 2011 mining plan to the Ministry of Coal, Gol.
- vi) The AC Sub-committee visited site on 29.05.2023 and, *inter alia*, also advised to submit the revised mining plan incorporating corrected land use map.
- vii) The proposal was subsequently returned by Nodal Officer (through CCF/DFO) to WBMDTCL on 17.07.2023 in Parivesh Portal with direction/EDS for compliance of site visit recommendations of the Sub-Committee. [Ref. Annexure-2]

Page1of2



WEST BENGAL MINERAL DEVELOPMENT & TRADING CORPORATION LTD

(A Govt. of West Bengal Undertaking)

CIN: U14219WB1973SGC028707 Regd. Office: WBIIDC Building, 3rd Floor, DJ-10, Sector-II, Salt Lake, Kol-700091, Phone: 033-2359-0073

> Email: wbmdtcl.gabc@gmail.com www.mdtcl.wb.gov.in

- viii) riowever, the Advisory Committee, MoEFCC Head Office simultaneously took up the proposal in its meeting on 17.07.2023 itself at a time when it was actually pending for EDS compliance at WBMDTCL (User Agency) end on PARIVESH portal. The AC, MoEFCC eventually rejected the proposal on 17.07.2023 for non-compliance of EDS.
- ix) Thus, obviously WBMDTCL (User Agency) did not get reasonable time for compliance of the EDS dated 17.07.2023, and the AC, MoEFCC did not actually have the requisite materials before it,viz., the EDS compliance report, supporting documents, views/ recommendation of the State Government etc. while it considered and eventually rejected the proposal on 17.07.2023.
- x) Subsequently, the Ministry of Coal has approved the revised Mining Plan on 09.10.2023 which has been uploaded at S. No. 09 of Additional Information Details on PARIVESH Portal.
- xi) Thus, compliances of all observations of the Advisory Committee as well as the AC Sub-Committee's EDS, along with all requisite documents including approved revised mining plan, have now been uploaded in PARIVESH portal.
- xii) It is further clarified as follows;
 - a) There has been no change in the proposal in terms of scope, purpose and other important aspects.
 - b) All the required information has been made available, and
 - c) Delay in providing information was mainly because of the delay in granting approval of the revised Mining Plan by Ministry of Coal, GoI which was beyond the control of WBMDTCL (User Agency).
- xiii) De novo submission of the proposal at this stage would further delay starting of the mine.

In view of the above, it is prayed that the Proposal No. FP/WB/MIN/26869/2017 for diversion of 109.459 ha forest for Gourangdih ABC Coal Mine of WBMDTCL may kindly be reopened and reconsidered in the light of the compliance report in respect of the EDS dated 24.03.2023 given at Annexure - 3, and the compliance report of the observations of Sub-Committee given at Annexure - 4.

Your kind cooperation and an early action in this matter would be immensely helpful in starting of the project that has been considerably delayed due to various reasons beyond the control of WBMDTCL.

Thanking you,

Enclo.: As stated above.

Yours faithfully,

Chairman and Managing Director

Page2of2

Annexure-1 1/50728/2023

Government of India Ministry of Environment Forest and Climate Change (Forest Conservation Division)

Indira Paryavaran Bhawan, Jor Bagh Road, Aligani, New Delhi-110003 Dated: August, 2023

To.

Additional Chief Secretary (Forests),

Government of West Bengal, Aranya Bhawan, Block LA-10A, Sector-III, Salt Lake, Kolkata- 700106

Subject: Diversion of 109.459 ha of forest land for Open Cast Coal Mining Project at Gourangdih ABC coal mine in favour of WB Mineral Development and Trading Corporation under Durgapur Forest Division, West Bengal.

Madam/Sir,

I am directed to refer to the subject cited proposal and to convey that the instant proposal has been considered by Advisory Committee (AC) in its meeting held on 17.07.2023. The detailed minutes of the meeting are available on PARIVESH portal at www.parivesh.nic.in.

- 2. The Advisory Committee had detailed discussion and deliberation with Nodal officer (FCA), West Bengal and concerned Dy. Director General of Forest(C), Regional Office. After going through the facts of the proposal and the report of the sub-committee constituted on the recommendation of AC by Ministry on 24.04.2023, the Advisory Committee observed that:
 - i. The revised mining plan for the instant proposal is yet to be approved by the Ministry of Coal. In view of this, the land use needs be revised and their details with map are to be uploaded on PARIVESH portal.
 - ii. The safety zone along the periphery of the proposed mining area has not been marked by the user agency.
 - iii. The user agency has not explored the possibilities of identifying the dumping areas outside the forest area.
 - iv. The reply on Ministry's letter dated 24.04.2023, as sought on the recommendation of AC on 24.03.2023, has not yet been received from Govt. of West Bengal.
 - v. The Ministry vide its letter dated 20.06.2023 shared the sub-committee report with Government of West Bengal with a request for providing para-wise comments. The same was also not provided by the State Government.
- 3. Keeping in view the above observations, the recommendation of the Advisory

Committee and with the approval of the competent authority, it has been decided that the proposal cannot be acceded to in present proposition and the same is therefore rejected. The User agency will however be at liberty to submit the complete proposal *denovo*.

Yours faithfully,

Signed by Suneet Bhardwaj

Date: 17-08-2023 16:27:58

(Suneet Bhardwaj)

Assistant Inspector General of Forests

Copy to:

- 1. The Principal Chief Conservator of Forests (HoFF), Government of West Bengal, Kolkata.
- 2. The Deputy Director General of Forest (Central), Regional Office, Bhubaneswar.
- 3. The Sub- Office of MoEF&CC, Kolkata
- 4. The Nodal Officer (FCA), O/o the PCCF (HoFF), Government of West Bengal, Kolkata.
- 5. User Agency.
- 6. Monitoring Cell, FC Division, MoEF&CC, New Delhi.

Annexure-2

Proposal No. - (FP/WB/MIN/26869/2017)

P	r	İ	r	1	t
	_	_			

From	Status	То	EDS Date	EDS sought/Replied	EDS Letter
Nodal Officer	EDS	CF (South- East Circle)	12/12/2018	Geo reference map of CA land is improper. It should be prepared by DGPS in this station to station reading with sufficient GPS coordinates.	0
CF (South- East Circle)	EDS	DFO (Durgapur)	13/12/2018	Geo reference map of CA land is improper. It should be prepared by DGPS in this station to station reading with sufficient GPS coordinates.	0
DFO (Durgapur)	EDS	User Agency (wbmdtcltd.coalmine@gmail.com)	18/12/2018	Geo reference map of CA land is improper. It should be prepared by DGPS in this station to station reading with sufficient GPS coordinates.	0
User Agency (wbmdtcltd.coalmine@gmail.com)	REPLY	DFO (Durgapur)	19/12/2018	The correction have been made as per the instruction received	0
DFO (Durgapur)	REPLY	CF (South- East Circle)	19/12/2018	The correction have been made as per the instruction received	0
CF (South- East Circle)	REPLY	Nodal Officer	19/12/2018	The EDS given	0
Head Office	EDS	State secretary	16/07/2019	EDS	
State secretary	REPLY	Head Office	16/03/2021	Compliance Report submitted by user agency.	
Head Office	EDS	State secretary	13/04/2021	EDS	0
State secretary	EDS	Nodal Officer	23/12/2021	Furnish reply of queries raised by MoEF	0

From	Status	То	EDS Date	EDS sought/Replied	EDS Letter
Nodal Officer	EDS	CF (South- East Circle)	28/12/2021	PI upload EDS raised by MoEF&CC. Letter emailed separately also. MoEF&CC letter dated 12April2021 made some observations, some of which were addressed earlier by CCF SEC & DFO Durgapur. Now pl address & upload your response to said observations in totality including those highlighted in this office letter dated 28Dec2021.	
CF (South- East Circle)	EDS	DFO (Durgapur)	19/01/2022	Gourandhi ABC Coal Mine	0
DFO (Durgapur)	EDS	User Agency (wbmdtcltd.coalmine@gmail.com)	20/01/2022	Returned herewith for uploading of the modified CA area including KML & geo referenced Map.	
User Agency (wbmdtcltd.coalmine@gmail.com)	REPLY	DFO (Durgapur)	21/01/2022	The correction have been made as per the instruction received	0
DFO (Durgapur)	REPLY	CF (South- East Circle)	25/01/2022	Proposal resubmitted after necessary entries of CA Estimate, Land Suitability & reply to queries raised by the MoEFCC in April, 2021.	
CF (South- East Circle)	REPLY	Nodal Officer	27/01/2022	Toposheet, KML file and Geo referenced maps of CA lands uploaded by the user agency and verified by the DFO. CA estimates have been prepared by the DFO Birbhum and Durgapur Division and countersigned by the undersigned. The same has been uploaded by the DFO Durgapur. Land suitability report by the concerned DFO's also uploaded by the DFO, Durgapur. Replay to the quaries raised by the MoEF & CC on 12 April 2021 has also been uploaded by the DFO Durgapur (quaries related to forest diversion land). Quaries related to CA land is uploaded herewith. Hence, compliance all the essentials the file is submitted online herewith.	
Nodal Officer	REPLY	State secretary	01/02/2022	reply to EDS raised by MoEF&CC	

From	Status	То	EDS Date	EDS sought/Replied Print ▼	EDS Letter
State secretary	REPLY	Head Office	08/02/2022	Reply to the queries	
Head Office	EDS	State secretary	11/04/2022	eds	
State secretary	EDS	Nodal Officer	14/04/2022	Kindly submit reply to the queries raised by MoEF	0
Nodal Officer	EDS	CF (South- East Circle)	18/04/2022	Please address issues raised by Gol	
CF (South- East Circle)	EDS	DFO (Durgapur)	19/04/2022	Please address issues raised by Gol	0
DFO (Durgapur)	EDS	User Agency (wbmdtcltd.coalmine@gmail.com)	20/04/2022	Please address issues raised by the GOI as uploaded herewith.	0
User Agency (wbmdtcltd.coalmine@gmail.com)	REPLY	DFO (Durgapur)	20/04/2022	The correction have been made as per the instruction received	0
DFO (Durgapur)	REPLY	CF (South- East Circle)	21/04/2022	Essential details as sought by the GOI have been uploaded by the user agency.	0
CF (South- East Circle)	REPLY	Nodal Officer	21/04/2022	Essential details as sought by the Government of India have been uploaded by the User Agency.	0
Nodal Officer	REPLY	State secretary	22/04/2022	Clarifications received for Gourangdih coal mines may kindly be forwarded to the IRO Kolkata	
State secretary	EDS	Nodal Officer	28/04/2022	Kindly obtain comments of CWLW on first observation of MoEF and reply of user agency on safety zone and dump yard with more clarity	
Nodal Officer	EDS	CF (South- East Circle)	29/04/2022	pl address issues & ensure attendance and clarifications during presentation scheduled on 6th May 2022 at 2pm at Aranya Bhavan, Kolkata	0

From	Status	То	EDS Date	EDS sought/Replied Print ▼	EDS Letter
CF (South- East Circle)	EDS	DFO (Durgapur)	06/05/2022	pl address issues & ensure attendance and clarifications during presentation scheduled on 6th May 2022 at 2pm at Aranya Bhavan, Kolkata	0
DFO (Durgapur)	EDS	User Agency (wbmdtcltd.coalmine@gmail.com)	07/05/2022	The proposal is sent back herewith to incorporate & upload the necessary clarification as discussed on 6th May, 2022 in the meeting held at Forest Directorate H/Q , Kolkata	0
User Agency (wbmdtcltd.coalmine@gmail.com)	REPLY	DFO (Durgapur)	18/10/2022	The correction have been made as per the instruction received	0
DFO (Durgapur)	REPLY	CF (South- East Circle)	21/10/2022	The necessary correction have been made by the User Agency as per the instruction	0
CF (South- East Circle)	REPLY	Nodal Officer	23/11/2022	Gourangdih ABC Coal Mine	
Nodal Officer	REPLY	State secretary	23/11/2022	may pl be forwarded to IRO Kolkata	
State secretary	REPLY	Head Office	25/11/2022	Reply of EDS has been furnished	
Head Office	EDS	State secretary	03/03/2023	EDS	
State secretary	REPLY	Head Office	10/03/2023	Nodal Officer is directed to attend the next meeting of FAC when it is scheduled	0
Head Office	EDS	State secretary	24/04/2023	EDS	
State secretary	EDS	Nodal Officer	26/04/2023	Kindly furnish reply to the queries raised by MoEF	0
Nodal Officer	EDS	CF (South- East Circle)	27/04/2023	Please forward to User Agency for submitting EDS replies	0

D : 4

From	Status	То	EDS Date	EDS sought/Replied Print ▼	EDS Letter
CF (South- East Circle)	EDS	DFO (Durgapur)	02/05/2023	Please forward to User Agency for submitting EDS replies	0
DFO (Durgapur)	EDS	User Agency (wbmdtcltd.coalmine@gmail.com)	02/05/2023	Forwarded to User Agency for submitting EDS replies	0
User Agency (wbmdtcltd.coalmine@gmail.com)	REPLY	DFO (Durgapur)	14/07/2023	The correction have been made as per the instruction received	0
DFO (Durgapur)	REPLY	CF (South- East Circle)	14/07/2023	The user agency submitted the reply as per observation of the last FAC.	0
CF (South- East Circle)	REPLY	Nodal Officer	15/07/2023	The user agency submitted the EDS replies as per observation.	0
Nodal Officer	EDS	CF (South- East Circle)	16/07/2023	EDS not addressed properly. Current approved mining, land use map with kml files, safety zone map etc have not been amrked out. UA must revise proposal as per site visit recommendations & resubmit with all documents	
CF (South- East Circle)	EDS	DFO (Durgapur)	17/07/2023	EDS not addressed properly. Current approved mining, land use map with kml files, safety zone map etc have not been marked out. UA must revise proposal as per site visit recommendations and resubmit with all documents.	0
DFO (Durgapur)	EDS	User Agency (wbmdtcltd.coalmine@gmail.com)	17/07/2023	EDS not addressed properly. Current approved mining, land use map with kml files, safety zone map etc have not been marked out. Revise proposal to be resubmit with all documents.	0

Report of Compliance/Clarification of the observations of the FAC meeting dated 24.03.2023 [Enclosure-1] in connection with Diversion of 109.459 Ha of forest land for Open Cast Mining project at Gourangdih ABC Coal Mine in favour of West Bengal Mineral Development and Trading Corporation under Durgapur Forest **Division, West Bengal**

A. Compliance of the observations made by the FAC in its meeting dated 24.03.2023 (Ref. File No. 8-03/2019FC).

Para Observation No The total area involved in the project is 356.575 ha, comprising of 247.116 ha of non-forest land and 109.459 ha of forest land. Corresponding detail of area mentioned in the approved Mining Plan are different wherein total area has been mentioned as 370 ha comprising of 92.53 ha of forest land and 277.47 ha of non-forest land. The State Govt. has mentioned that as per Rule 22E (3) (i) of the Mineral Concession (Amendment) Rules, 2020, this change in land type within lease area comes under 'minor changes' in the approved mining plan and does not require fresh approval of the mining plan. The Rule 22E (3)(i) however refers to the "change in land type within the leased area" as a 2. minor change, whereas in the instant case the area has been reduced from 370 ha to 356.575 ha. Moreover 65.09 ha additional area has been taken outside the block. The purpose/component wise breakup of the required area has to be in conformity with the mining plan. The same needs to be examined by the State Government. The State Govt. shall ensure to submit the miningplan as required under extant guidelines.

Compliance

• Annexure 2B of approved Mining Plan may kindly be referred to this context [Enclosure-2]. It will appear as follows;

The vested cardinal points area as per AllotmentOrder for geological block

Latitude: 23 48'30" N & 23 49'45"N Longitude: 86° 57′45″ E & 87° 00′15″E

ii) Lease Area: 356.575 Ha iii) Project Area: 356.575 Ha iv) Geological Block area: 370.00 Ha

Component-wise breakup of the project area is as follows

SI. No.	Component	Forest Land (ha.)	No Forest Land (ha.)	Total Area (ha)
1	Quarry Area	92.342	150.478	242.820
2	Top Soil Dump	0.000	4.070	4.070
3	Over Burden Dump	8.844	38.225	47.069
4	Safety Zone	1.950	8.08	10.03
5	Other Use	4.887	38.489	43.376
6	Road & Infrastructure area	1.436	7.774	9.210
Total		109.459	247.116	356.575

Necessary modification with regard to the requirement for diversion of 109.459 ha forest land has been made in the Approved Mining Plan (AMP-2023) which has been duly approved by the Ministry of Coal, Government of India. The said Approved Mining Plan-2023 is uploaded at Sl. No. 9 of Additional Information Details of FORM-A (Part-I). It will appear that the purpose/component wise breakup of the required area is in conformity with the mining plan.

2. (ii) Plan shall be submitted.

A copy of approved Wild Conservation The approved Wildlife Conservation Plan is uploaded at Sl. No. 10 of Additional information Details in FORM-A (Part-I).

- WBMTDCL undertakes that Wildlife Conservation Plan would be implemented and the mitigation measures as stated would be followed
- WBMTDCL undertakes to spend the capital investment for activities which contribute to wildlife conservation as given in the Wildlife Conservation Plan.

2. (iii) The State Govt. shall explore the possibility to exclude the area proposed for dumping on forestland and explore alternatives on adjoining non-forest land. The KML file of the area proposed for dumping shall also be submitted.

- Vide Memo No. 1716/DLRO-PAB/2023 dated 11.05.2023 **[Enclosure-3]** of the District Magistrate, Paschim Bardhaman, West Bengal, it has been clarified that no such alternative non-forest land is available in the adjoining area of the Gourangdih ABC Coal Mine.
 - KML file of the project area including the area proposed for dumping is uploaded at Sl. No. M-2 (vii), Form-A (Part-I).

L/41332/2023 Enclosure-1

Government of India Ministry of Environment, Forests and Climate Change (Forest Conservation Division)

Indira ParyavaranBhawan, JorBagh Road, Aliganj, New Delhi – 1100 03 **Dated:** April, 2023

To,

The Principal Secretary, Government of West Bengal, Kolkata-700 098

Sub: Diversion of 109.459 ha of forest land for Open Cast Coal Mining Project at Gourangdih ABC coal mine in favour of WB Mineral Development and Trading Corporation under Durgapur Forest Division, West Bengal.

Madam/Sir.

I am directed to refer to the above subject proposal and to convey that the instant proposal has been considered by Advisory Committee (AC) in its meeting held on 24.03.2023. The minutes of the meeting are available on PARIVESH portal at www.parivesh.nic.in.

- 2. The AC, after detailed deliberation with Nodal officer (FCA), Govt. of West Bengal, Regional Officer, IRO, Kolkata and Chief Managing Director, WB Mineral Development & Trading Corporation and after going through the facts of the proposal, deferred the proposal with the following observations:
 - i. The total area involved in the project is 356.575 ha, comprising of 247.116 ha of non-forest land and 109.459 ha of forest land. Corresponding detail of area mentioned in the approved Mining Plan are different wherein total area has been mentioned as 370 ha comprising of 92.53 ha of forest land and 277.47 ha of non-forest land. The State Govt. has mentioned that as per Rule 22E (3) (i) of the Mineral Concession (Amendment) Rules, 2020, this change in land type within lease area comes under 'minor changes' in the approved mining plan and does not require fresh approval of the mining plan. The Rule 22E (3)(i) however refers to the "change in land type within the leased area" as a minor change, whereas in the instant case the area has been reduced from 370 ha to 356.575 ha. Moreover 65.09 ha additional area has been taken outside the block. The purpose/component wise breakup of the required area has to be in conformity with the mining plan. The same needs to be examined by the State Government. The State Govt. shall ensure to submit the mining plan as required under extant guidelines.
 - ii. A copy of approved Wild Conservation Plan shall be submitted.
 - iii. The State Govt. shall explore the possibility to exclude the area

- proposed for dumping on forestland and explore alternatives on adjoining non-forest land. The KML file of the area proposed for dumping shall also be submitted.
- iv. Since the composition of the Advisory Committee has now been changed and the sub-committee as constituted earlier could not visit the area, therefore, a committee consisting of Advisory Committee member Shri Manoj Pant and representatives of Ministry/IRO shall visit the area and submit report.
- 3. In view of above, Government of West Bengal is requested to provide their response on the points as indicated at para 2 [(i) to (iii)] above for further consideration of the proposal in the Ministry.

Yours faithfully,

Signed by Suneet Bhardwaj Date: 24-04-2023 10:16:19 Reason: Approved

Sd/-(Suneet Bhardwaj)

Assistant Inspector General of Forests (FC)

Copy to:

- 1. The Principal Chief Conservator of Forests, Government of West Bengal, Kolkata.
- 2. The Nodal Officer (FCA), O/o the PCCF, Government of West Bengal, Kolkata.
- 3. Dy. Director General (Central), Regional Office, Kolkata.
- 4. User agency.
- 5. Monitoring Cell of FC Division, MoEF&CC, New Delhi.

Annexure 2B

MPCO

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ANNEXURE-IIB

<u>Certification of Project Area, Proposed Mining Lease area and Geological</u> **Block area**

This is Certified that the Cardinal Points considered for preparation of the Mine Plan and Mine Closure Plan of Gourangdih-ABC(Ist Modification) Coal Mine situated in Raniganj Coalfield, Paschim Bardhman district of West Bengal State, is in line with the Allotment order F.No 103/6/2016/NA dated September 29,2016. The block does not encroach any other adjacent block. All proposed mining activities, overburden dumping area and infrastructure locations are proposed within allocated cardinal points coordinates and the lease obtained by the block allottee M/s West Bengal Mineral Development and Trading Corporation Ltd.

The vested cardinal points area as per Allotment Order for geological block

23° 28' 30" - 23° 49' 45" N Latitude Longitude 86°57'45" - 87°00'15" E

356.575 Ha Lease Area **Project Area** 356.575 Ha Geological Block area 370.00 Ha

The coordinates of the lease acquired for the Project purpose by the project proponent as per previous Approved Mine Plan(2011) are given as below:

GOURANGDIH - ABC GEOLOGICAL BLOCK BOUNDARY CO-ORDINATES				
ID	LATITUDE	LONGITUDE		
G-1	23° 49' 30.448" N	86° 57' 44.983" E		
G-2	23° 49' 32.894" N	86° 57' 48.115" E		
G-3	23° 49' 33.005" N	86° 57' 49.255" E		
G-4	23° 49' 34.129" N	86° 57' 50.531" E		
A44	23° 49' 35.286" N	86° 57' 53.294" E		
G-5	23° 49' 35.411" N	86° 57' 53.592" E		
) A45	23° 49' 35.896" N	86° 57' 55.085" E		

BLOCK - A PROJECT BOUNDARY CO-
ORDINATES

ONDINATES					
PILLAR _ID	LATITUDE	LONGITUDE			
A1	23° 49' 33.001" N	86° 58' 22.156" E			
A1'	23° 49' 33.495" N	86° 58' 22.128" E			
A2	23° 49' 43.691" N	86° 58' 21.392" E			
А3	23° 49' 45.153" N	86° 58' 21.111" E			
A4	23° 49' 45.489" N	86° 58' 21.967" E			
A 5	23° 49' 44.893" N	86° 58' 36.871" E			
A6	23° 49' 41.267" N	86° 58' 38.634" E			

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G-6	23° 49' 36.237" N	86° 57' 56.578" E
A46	23° 49' 36.475" N	86° 57' 57.739" E
A47	23° 49' 36.564" N	86° 57' 58.446" E
A48	23° 49' 36.563" N	86° 57' 59.456" E
G-7	23° 49' 36.532" N	86° 58' 00.146" E
G-8	23° 49' 36.217" N	86° 58' 00.129" E
A50	23° 49' 36.069" N	86° 58' 00.852" E
A51	23° 49' 36.186" N	86° 58' 02.528" E
A52	23° 49' 36.224" N	86° 58' 04.278" E
A53	23° 49' 36.066" N	86° 58' 06.512" E
A54	23° 49' 35.757" N	86° 58' 08.539" E
G-9	23° 49' 35.257" N	86° 58' 11.083" E
G-10	23° 49' 34.062" N	86° 58' 14.431" E
G-11	23° 49' 33.967" N	86° 58' 18.111" E
G-12	23° 49' 33.838" N	86° 58' 18.695" E
G-13	23° 49' 33.689" N	86° 58' 19.592" E
G-14	23° 49' 33.586" N	86° 58' 20.659" E
A1'	23° 49' 33.495" N	86° 58' 22.128" E
G-15	23° 49' 33.023" N	86° 58' 26.152" E
G-16	23° 49' 32.916" N	86° 58' 28.851" E
G-17	23° 49' 32.493" N	86° 58' 31.388" E
G-18	23° 49' 32.294" N	86° 58' 32.096" E
G-19	23° 49' 29.145" N	86° 58' 31.788" E
G-20	23° 49' 28.052" N	86° 58' 36.229" E
G-21	23° 49' 28.376" N	86° 58' 36.874" E
G-22	23° 49' 27.808" N	86° 58' 41.173" E
A12''	23° 49' 27.787" N	86° 58' 41.429" E
G-23	23° 49' 27.494" N	86° 58' 44.882" E
G-24	23° 49' 27.226" N	86° 58' 47.283" E
G-25	23° 49' 26.849" N	86° 58' 48.787" E
G-26	23° 49' 26.674" N	86° 58' 49.275" E
G-27	23° 49' 25.889" N	86° 58' 50.886" E
G-28	23° 49' 25.208" N	86° 58' 51.952" E
G-29	23° 49' 24.418" N	86° 58' 53.041" E

Α7	23° 49' 39.601" N	86° 58' 38.996" E
A8	23° 49' 38.913" N	86° 58' 39.037" E
Α9	23° 49' 38.029" N	86° 58' 40.112" E
A10	23° 49' 34.059" N	86° 58' 41.167" E
A11	23° 49' 32.013" N	86° 58' 41.161" E
A11'	23° 49' 30.492" N	86° 58' 41.249" E
A12	23° 49' 29.481" N	86° 58' 41.255" E
A12'	23° 49' 27.987" N	86° 58' 41.402" E
A12''	23° 49' 27.787" N	86° 58' 41.429" E
A13	23° 49' 27.525" N	86° 58' 41.466" E
A13'	23° 49' 27.044" N	86° 58' 42.272" E
A14	23° 49' 27.003" N	86° 58' 43.406" E
A15	23° 49' 26.653" N	86° 58' 46.724" E
A16	23° 49' 21.277" N	86° 58' 42.817" E
A17	23° 49' 18.036" N	86° 58' 36.751" E
A18	23° 49' 17.433" N	86° 58' 31.028" E
A19	23° 49' 15.884" N	86° 58' 28.194" E
A20	23° 49' 12.442" N	86° 58' 25.081" E
A21	23° 49' 08.528" N	86° 58' 25.437" E
A22	23° 49' 03.839" N	86° 58' 25.344" E
A23	23° 48' 55.709" N	86° 58' 26.982" E
A24	23° 48' 53.365" N	86° 58' 27.149" E
A25	23° 48' 52.486" N	86° 58' 21.162" E
A25'	23° 48' 52.873" N	86° 58' 16.557" E
A26	23° 48' 53.108" N	86° 58' 12.465" E
A26'	23° 48' 52.914" N	86° 58' 08.888" E
A27	23° 48' 52.805" N	86° 58' 04.719" E
A28	23° 49' 01.709" N	86° 58' 00.342" E
A28'	23° 49' 04.019" N	86° 57' 59.093" E
A29	23° 49' 09.211" N	86° 57' 56.301" E
A29'	23° 49' 14.126" N	86° 57' 53.821" E
A29''	23° 49' 17.244" N	86° 57' 52.023" E
A29'''	23° 49' 21.169" N	86° 57' 50.382" E
A30	23° 49' 22.438" N	86°)57' 49.762" E

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G-30	23° 49' 23.589" N	86° 58' 53.462" E
G-31	23° 49' 23.024" N	86° 58' 51.414" E
G-32	23° 49' 21.915" N	86° 58' 48.633" E
G-33	23° 49' 21.062" N	86° 58' 48.067" E
G-34	23° 49' 18.087" N	86° 58' 54.026" E
G-35	23° 49' 17.038" N	86° 58' 56.156" E
G-36	23° 49' 14.007" N	86° 58' 59.598" E
C41'	23° 49' 13.007" N	86° 59' 01.034" E
G-37	23° 49' 12.207" N	86° 59' 02.859" E
G-38	23° 49' 11.526" N	86° 59' 03.908" E
G-39	23° 49' 11.003" N	86° 59' 05.007" E
G-40	23° 49' 10.385" N	86° 59' 06.864" E
G-41	23° 49' 09.967" N	86° 59' 08.083" E
G-42	23° 49' 09.704" N	86° 59' 09.025" E
G-43	23° 49' 09.566" N	86° 59' 10.582" E
G-44	23° 49' 09.518" N	86° 59' 12.781" E
G-45	23° 49' 09.288" N	86° 59' 14.667" E
G-46	23° 49' 08.937" N	86° 59' 16.421" E
G-47	23° 49' 08.605" N	86° 59' 17.783" E
G-48	23° 49' 08.029" N	86° 59' 19.082" E
G-49	23° 49' 08.316" N	86° 59' 21.397" E
G-50	23° 49' 08.118" N	86° 59' 22.032" E
G-51	23° 49' 07.945" N	86° 59' 23.198" E
G-52	23° 49' 07.532" N	86° 59' 24.365" E
G-53	23° 49' 06.814" N	86° 59' 26.189" E
G-54	23° 49' 06.167" N	86° 59' 27.475" E
G-55	23° 49' 05.152" N	86° 59' 29.409" E
C4''	23° 49' 04.095" N	86° 59' 31.175" E
G-56	23° 49' 03.752" N	86° 59' 31.747" E
G-57	23° 49' 02.718" N	86° 59' 33.179" E
G-58	23° 49' 02.202" N	86° 59' 34.007" E
G-59	23° 49' 01.595" N	86° 59' 35.676" E

A31	23° 49' 23.018" N	86° 57' 49.458" E
A31'	23° 49' 22.953" N	86° 57' 49.087" E
A32	23° 49' 20.796" N	86° 57' 45.553" E
A32'	23° 49' 21.491" N	86° 57' 44.665" E
A33	23° 49' 21.691" N	86° 57' 44.448" E
A34	23° 49' 22.095" N	86° 57' 44.089" E
A35	23° 49' 24.237" N	86° 57' 42.779" E
A36	23° 49' 25.572" N	86° 57' 42.015" E
A37	23° 49' 27.063" N	86° 57' 41.506" E
A38	23° 49' 29.832" N	86° 57' 41.483" E
A39	23° 49' 30.768" N	86° 57' 41.243" E
A40	23° 49' 31.897" N	86° 57' 41.595" E
A41	23° 49' 32.218" N	86° 57' 45.563" E
A42	23° 49' 34.774" N	86° 57' 47.583" E
A43	23° 49' 35.284" N	86° 57' 49.189" E
A44	23° 49' 35.286" N	86° 57' 53.294" E
A45	23° 49' 35.896" N	86° 57' 55.085" E
A46	23° 49' 36.475" N	86° 57' 57.739" E
A47	23° 49' 36.564" N	86° 57' 58.446" E
A48	23° 49' 36.563" N	86° 57' 59.456" E
A49	23° 49' 36.429" N	86° 58' 00.881" E
A50	23° 49' 36.069" N	86° 58' 00.852" E
A51	23° 49' 36.173" N	86° 58' 02.528" E
A52	23° 49' 36.224" N	86° 58' 04.278" E
A53	23° 49' 36.066" N	86° 58' 06.512" E
A54	23° 49' 35.757" N	86° 58' 08.539" E
A55	23° 49' 34.946" N	86° 58' 10.918" E
A56	23° 49' 34.379" N	86° 58' 14.285" E
A57	23° 49' 33.579" N	86° 58' 18.634" E
A1	23° 49' 33.001"/ N	86° 58' 22.156" E

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G-60	23° 49' 00.924" N	86° 59' 37.766" E	BLOCK	- C PROJECT CO	O-ORDINATES
G-61	23° 49' 00.537" N	86° 59' 38.931" E	ID	LATITUDE	LONGITUDE
G-62	23° 48' 59.582" N	86° 59' 44.712" E	C1	23° 49' 28.619" N	86° 59' 04.672" E
C9'	23° 48' 59.304" N	86° 59' 46.153" E	C1'	23° 49' 27.878" N	86° 59' 10.126" E
G-63	23° 48' 57.771" N	86° 59' 54.087" E	C2	23° 49' 27.052" N	86° 59' 14.465" E
G-64	23° 48' 55.749" N	86° 59' 59.387" E	C3	23° 49' 23.956" N	86° 59' 21.797" E
G-65	23° 48' 55.572" N	87° 00' 00.021" E	C4	23° 49' 14.458" N	86° 59' 25.614" E
G-66	23° 48' 55.418" N	87° 00' 00.962" E	C4'	23° 49' 07.644" N	86° 59' 29.205" E
G-67	23° 48' 55.233" N	87° 00' 02.007" E	C4''	23° 49' 04.095" N	86° 59' 31.175" E
G-68	23° 48' 55.147" N	87° 00' 03.207" E	C 5	23° 49' 03.299" N	86° 59' 31.616" E
G-69	23° 48' 55.022" N	87° 00' 04.474" E	C6	23° 49' 01.514" N	86° 59' 35.268" E
C20	23° 48' 54.919" N	87° 00' 05.605" E	C 7	23° 49' 00.327" N	86° 59' 38.084" E
C21	23° 48' 54.794" N	87° 00' 07.204" E	C7'	23° 48' 59.069" N	86° 59' 41.047" E
C22	23° 48' 54.673" N	87° 00' 07.953" E	C8	23° 48' 58.068" N	86° 59' 44.129" E
G-70	23° 48' 54.045" N	87° 00' 08.738" E	С9	23° 48' 58.473" N	86° 59' 44.999" E
C22'	23° 48' 54.174" N	87° 00' 09.655" E	C9'	23° 48' 59.304" N	86° 59' 46.153" E
C23	23° 48' 53.882" N	87° 00' 10.384" E	C10	23° 48' 59.519" N	86° 59' 46.383" E
G-71	23° 48' 53.469" N	87° 00' 10.982" E	C11	23° 49' 01.423" N	86° 59' 48.003" E
G-72	23° 48' 52.712" N	87° 00' 12.003" E	C12	23° 49' 06.081" N	86° 59' 49.786" E
C24	23° 48' 51.008" N	87° 00' 13.219" E	C13	23° 49' 08.488" N	86° 59' 52.218" E
C24'	23° 48' 50.764" N	87° 00' 14.038" E	C14	23° 49' 09.192" N	86° 59' 57.119" E
C24''	23° 48' 49.477" N	87° 00' 14.998" E	C15	23° 49' 08.482" N	87° 00' 02.254" E
C25	23° 48' 50.319" N	87° 00' 10.911" E	C16	23° 49' 07.111" N	87° 00' 05.404" E
C25'	23° 48' 49.059" N	87° 00' 05.694" E	C17	23° 49' 06.122" N	87° 00' 06.062" E
C26	23° 48' 48.649" N	87° 00' 04.302" E	C18	23° 49' 04.487" N	87° 00' 07.461" E
C26'	23° 48' 48.006" N	87° 00' 02.534" E	C19	23° 49' 01.777" N	87° 00' 07.461" E
C27	23° 48' 47.349" N	87° 00' 00.481" E	C20	23° 48' 54.919" N	87° 00' 05.605" E
C27'	23° 48' 46.005" N	86° 59' 56.109" E	C21	23° 48' 54.794" N	87° 00' 07.204" E
C27''	23° 48' 44.008" N	86° 59' 52.626" E	C22	23° 48' 54.673" N	87° 00' 07.953" E
C28	23° 48' 44.467" N	86° 59' 51.605" E	C22'	23° 48' 54.174" N	87° 00' 09.655" E
G-73	23° 48' 43.424" N	86° 59' 47.095" E	C23	23° 48' 53.882" N	87° 00' 10.384" E
G-74	23° 48' 41.896" N	86° 59' 43.158" E	C24	23° 48' 51.008" N	87° 00' 13.219" E
G-75	23° 48' 41.477" N	86° 59' 41.767" E	C24'	23° 48' 50.764" N	87° 00' 14.038" E
G-76	23° 48' 41.068" N	86° 59' 40.054" E	C24''	23° 48' 49.477" N	87° 00' 14.998" E











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G-77	23° 48' 40.466" N	86° 59' 38.459" E]	C25	23° 48' 50.319" N	87° 00' 10.911" E
G-78	23° 48' 39.831" N	86° 59' 35.981" E		C25'	23° 48' 49.059" N	87° 00' 05.694" E
G-79	23° 48' 38.594" N	86° 59' 31.808" E		C26	23° 48' 48.649" N	87° 00' 04.302" E
G-80	23° 48' 37.553" N	86° 59' 28.346" E		C26'	23° 48' 48.006" N	87° 00' 02.534" E
G-81	23° 48' 36.574" N	86° 59' 25.202" E		C27	23° 48' 47.349" N	87° 00' 00.481" E
G-82	23° 48' 35.509" N	86° 59' 21.894" E]	C27'	23° 48' 46.005" N	86° 59' 56.109" E
G-83	23° 48' 34.412" N	86° 59' 18.492" E		C27''	23° 48' 44.008" N	86° 59' 52.626" E
G-84	23° 48' 33.778" N	86° 59' 16.727" E		C28	23° 48' 44.467" N	86° 59' 51.605" E
G-85	23° 48' 32.575" N	86° 59' 14.443" E]	C29	23° 48' 46.417" N	86° 59' 47.997" E
G-86	23° 48' 33.522" N	86° 59' 11.425" E]	C30	23° 48' 47.303" N	86° 59' 45.025" E
G-87	23° 48' 34.008" N	86° 59' 10.018" E		C31	23° 48' 47.725" N	86° 59' 42.792" E
G-88	23° 48' 34.748" N	86° 59' 08.225" E		C32	23° 48' 47.038" N	86° 59' 40.548" E
G-89	23° 48' 35.501" N	86° 59' 06.332" E		C32'	23° 48' 35.377" N	86° 59' 18.667" E
G-90	23° 48' 36.081" N	86° 59' 05.022" E		C33	23° 48' 34.302" N	86° 59' 16.189" E
G-91	23° 48' 37.178" N	86° 59' 03.105" E		C34	23° 48' 33.871" N	86° 59' 13.043" E
G-92	23° 48' 38.812" N	86° 59' 00.907" E		C35	23° 48' 34.861" N	86° 59' 10.017" E
G-93	23° 48' 40.404" N	86° 58' 58.593" E		C35'	23° 48' 43.306" N	86° 58' 54.797" E
G-94	23° 48' 42.167" N	86° 58' 55.974" E		C36	23° 48' 43.995" N	86° 58' 53.496" E
G-95	23° 48' 43.221" N	86° 58' 54.408" E		C37	23° 48' 45.035" N	86° 58' 52.007" E
C36	23° 48' 43.995" N	86° 58' 53.496" E		C37'	23° 48' 49.321" N	86° 58' 52.617" E
C37	23° 48' 45.035" N	86° 58' 52.007" E		C37''	23° 48' 52.753" N	86° 58' 53.075" E
G-96	23° 48' 45.931" N	86° 58' 51.228" E		C38	23° 48' 54.345" N	86° 58' 53.028" E
G-97	23° 48' 46.425" N	86° 58' 50.363" E		C39	23° 48' 57.511" N	86° 58' 52.513" E
G-98	23° 48' 46.941" N	86° 58' 49.241" E		C40	23° 49' 01.314" N	86° 58' 52.858" E
G-99	23° 48' 47.285" N	86° 58' 48.376" E		C41	23° 49' 07.236" N	86° 58' 57.643" E
G-100	23° 48' 47.801" N	86° 58' 46.482" E		C41'	23° 49' 13.007" N	86° 59' 01.034" E
G-101	23° 48' 48.855" N	86° 58' 42.578" E		C42	23° 49' 14.373" N	86° 59' 01.387" E
G-102	23° 48' 49.736" N	86° 58' 39.094" E		C43	23° 48' 54.174" N	87° 00' 09.655" E
G-103	23° 48' 50.058" N	86° 58' 37.715" E		C44	23° 48' 53.882" N	87° 00' 10.384" E
G-104	23° 48' 50.789" N	86° 58' 33.857" E		C45	23° 48' 51.008" N	87° 00' 13.219" E
G-105	23° 48' 51.283" N	86° 58' 30.116" E		C46	23° 48' 50.764" N	87° 00' 14.038" E
G-106	23° 48' 51.498" N	86° 58' 28.527" E		C1	23° 48' 49.477" N	87° 00' 14.998" E
G-107	23° 48' 51.777" N	86° 58' 26.633" E]			7 , —
G-108	23° 48' 52.001" N	86° 58' 24.505" E			X	enta

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A25	23° 48' 52.486" N	86° 58' 21.162" E
A25'	23° 48' 52.873" N	86° 58' 16.557" E
A26	23° 48' 53.108" N	86° 58' 12.465" E
A26'	23° 48' 52.914" N	86° 58' 08.888" E
G-109	23° 48' 52.617" N	86° 58' 04.515" E
G-110	23° 48' 55.501" N	86° 58' 03.014" E
G-111	23° 48' 58.896" N	86° 58' 01.406" E
G-112	23° 49' 01.553" N	86° 58' 00.037" E
G-113	23° 49' 03.885" N	86° 57' 58.731" E
G-114	23° 49' 09.162" N	86° 57' 56.159" E
G-115	23° 49' 14.053" N	86° 57' 53.064" E
G-116	23° 49' 17.135" N	86° 57' 51.997" E
G-117	23° 49' 21.004" N	86° 57' 50.066" E
G-118	23° 49' 22.299" N	86° 57' 49.465" E
A31'	23° 49' 22.953" N	86° 57' 49.087" E
G-119	23° 49' 23.997" N	86° 57' 48.483" E
G-120	23° 49' 24.479" N	86° 57' 48.094" E
G-121	23° 49' 26.462" N	86° 57' 46.923" E
G-122	23° 49' 28.346" N	86° 57' 45.789" E

ent Coordinator, MPPA

Indian Mine Planners and Consultants

NABET/APA-MPPA/IA/002 Dated Jan 28 2021

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অতিরিক্ত জেলা শাসক এবং জেলা ভূমি ও ভূমি সংস্কার আধিকারকের করণ

ভূমি সংস্কার আধিকারকের করণ পশ্চিম বর্ধমান বিবেকানন্দ সরণি, রামকৃষ্ণ মিশণ, কন্যাপুর আসানসোল, পিন – ৭১৩৩০৫

আসানসোল, পিন – ৭১৩৩০৫ ইমেল – dlropaschimbardhaman@gmail.com The second secon

Enclosure-3
Office of the Additional District Magistr
And

District Land & Land Reforms Officer Paschim Bardhaman

Vivekananda Sarani, Ramkrishna Mission, Kan Asansol, PIN - 713305

Email - dlropaschimbardhaman@gmail.com

Memo No.

1716

/DLRO-PAB/2023

Date: 11. 05-23

To
The Chairman & Managing Director
West Bengal Mineral Development &
Trading Corporation Ltd.

Sub:- Regarding availability of non- forest land for dumping of Overburden of Gourangdih ABC Coal mine.

Ref: His Office Memo no.MDTC/PM-5/144(F)/Pt-II/1083 dated 27/04/2023

Sir

Reference above, this is to inform You, that as per report of BL&LRO Barabani vide his Office memo no. 752 dated 04/05/2023, no such encumbrance free land is available in the adjoining area. This is for his kind information and necessary action.

Your's faithfully

District Magistrate Paschim Bardhaman Report of Compliance/Clarification of the observations of the FAC Sub-Committee field visit dated 20.06.2023 in connection with Diversion of 109.459 Ha of forest land for Open Cast Mining project at Gourangdih ABC Coal Mine in favour of West Bengal Mineral Development and Trading Corporation under Durgapur Forest Division, West Bengal

	Durgapur Forest Division, West Bengal				
Α.	 A. Para – wise comments / reply on the observations made by the FAC Sub- Committee in the site inspection report of 29.05.2023. 				
Para No.	Observation	Comments			
7.A.	9	 The approved Wildlife Conservation Plan is uploaded at Sl. No. 10 of Additional information Details in FORM-A (Part-I). WBMTDCL undertakes that Wildlife Conservation Plan would be implemented and the mitigation measures as stated would be followed. WBMTDCL undertakes to spend the capital investment for activities which contribute to wildlife conservation as given in the Wildlife Conservation Plan. 			
7.B.	There appears to be a contradiction between the area as approved by the Ministry of Mining, Government of India and the area mentioned in the instant proposal. As informed by the user agency, a total of 370 ha area of the Coal Block comprising of 92.53 ha of forest land was allocated by the Ministry of Coal, Government of India for Gourangdih ABC Coal Mine. However as informed by the user agency, the revised proposal of the coal block from 370 ha to 356.575 ha and increasing the forest area from 92.53ha of the forest land to 109.459 ha is yet to be approved by the Coal Ministry.	Necessary modifications with regard to the requirement for diversion of 109.459 ha forest land and other land details have been made in the Approved Mining Plan (AMP-2023) which has been duly approved by the Ministry of Coal, Government of India. The said Approved Mining Plan -2023 is uploaded at SI. No. 9 of Additional information Details, FORM-A in PARIVESH Portal.			
7.C.	Regarding adequacy of existing road infrastructure to accommodate the increased transportation of coal, the response of the State Government may be examined.	Compliance on the same observation was replied to the previously raised observation of FAC dated 31.03.2022, the same is reproduced below: Detailed report of the traffic density survey both in up and down direction at three locations namely Baradang (0.9 km from the proposed mine in S direction), Majandih (1.6 km from the proposed mine in NE direction) and Dharaspur (3.5 km from the proposed mine in WSW direction) was carried out. Report of the survey is given at Enclosure-1. It will appear from the said report that the current road width is sufficient to sustain the present and additional traffic.			

7.D.	Regarding suggestion of the FAC, explore the possibility of evacuation coal using common, closed / picture conveyor, the financial implications of the proposal as per the study conduct through transaction advisor M/s KPN International as provided by the State Government is high and is not financial viable.	of required. ipe he ced MG
7.E.	Since, the revised mining plan is yet to approved by the Ministry of Coal, it tabular statement indicating various type of land use including dumping area an needs be revised and the revised map be uploaded on PARIVESH por accordingly.	Coal on 09.10.2023 and copy of the Approved Mining Plan 2023 has been uploaded at SI. No. 9 of Additional information Details, FORM-A (Part-I). The tabular statement indicating various types of land
В.		nade by the FAC, the following other observations mentioned
i.	at page-4 of Field Inspection Report of the Extent of the boundary of the	Land use map as per the revised approved mining plan – 2023
	forest area as marked in the uploaded map has to be in consonance with the records of the Forest Department, West Bengal. The user agency may be advised to revise the land use map as per the revised approved mining plan after verification and certification by the Forest Department and upload the same on the PARIVESH portal.	has been uploaded on the PARIVESH portal in FORM-A at S. No.11 under Additional Information.
ii.	The user agency may also be advised to submit the schedule of Forest land of the said area as per the revised plan.	Schedule of Forest land is enclosed [Enclosure -2].
iii.	The safety zone along the periphery of the proposed mining area has not been marked by the user agency.	Safety zone along the periphery of the proposed mining area as per Plate No. 08 of approved revised mining plan-2023 is uploaded at S. No. 12 under Additional Information in Form-A.
iv.	The user agency may be advised to explore the possibilities of identifying the dumping areas outside the forest area and may also revise tabular statement regarding redistribution of area accordingly.	Vide Memo No. 1716/DLRO-PAB/2023 dated 11.05.2023 [Enclosure-3] of the District Magistrate, Paschim Bardhaman, West Bengal, it has been clarified that no such alternative non-forest land is available in the adjoiningarea of the Gourangdih ABC Coal Mine.

V.	No mining activity was observed on the proposed site on the date of	
	inspection.	
vi.	There is no overlapping of boundaries with the adjoining mine on the eastern boundary of the proposed area.	Observations of the Sub-Committee. No comments required.
vii.	No instance of violation of FC Act, 1980 was observed during the inspection.	

1. BASELINE STATUS OF TRAFFIC DENSITY

1.1 Monitoring location

The traffic density survey was conducted both in up and down direction at three locations namely Baradang (0.9 km from the proposed mine in S direction), Majandih (1.6 km from the proposed mine in NE direction) and Dharaspur (3.5 km from the proposed mine in WSW direction) on 03-04/01/2018, 07-08/01/2018 and 10-11/01/2018, respectively. The locations are shown in **Fig 1**.

1.2 Methodology

Traffic density was recorded continuously for 24 hours during the monitoring days by visual observation and counting of vehicles under six categories, viz., heavy motor vehicles (buses & truck), light motor vehicles, cycles, motor cycles & scooters, animal drawn vehicles and others. As traffic density on the road is low, one skilled person was deployed during each shift. At the end of each hour, fresh counting and recording was undertaken. Thus, total numbers of vehicles per hour under each category was determined. Report of the study is given at Annexure -1

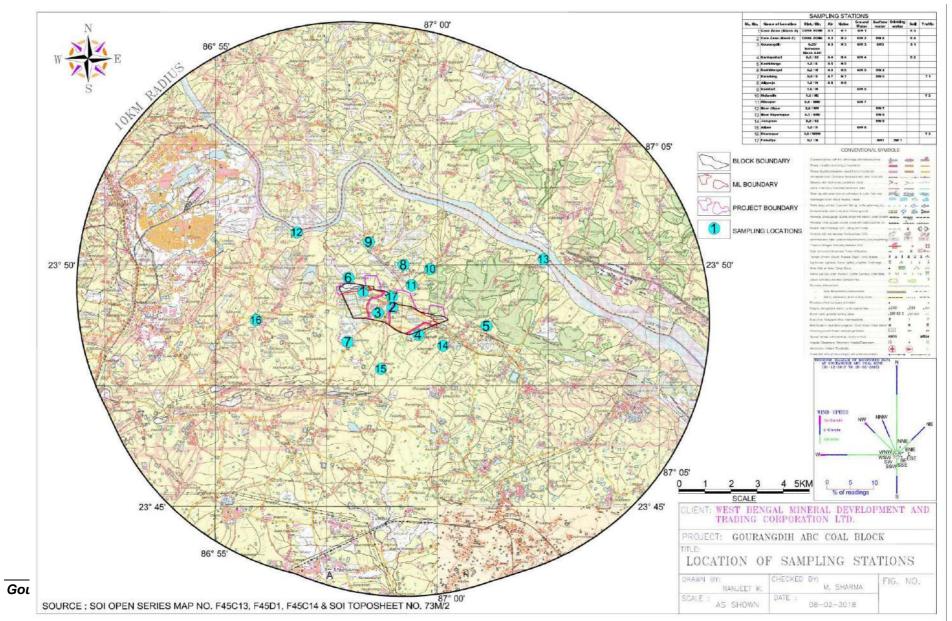
The result of presence of slow moving vehicles in traffic stream is that it affects the free flow of traffic. A way of accounting for the interaction of various kind of vehicles is to express the capacity of roads in terms of common unit. Therefore, the number of vehicles have been converted into "passenger car units" (PCUs) using the equivalency factor as per Table 1 of IRC: 64-1990 and the volume of traffic on the three routes are summarised in Table 1.

TABLE 1
TRAFFIC DENSITY

Code	•	Γ1	T	2		Г3
Location	Bara	adang	Maja	ndih	Dhar	aspur
	Observed count (up+down)	Equivalent PCU	Observed count (up+down)	Equivalent PCU	Observed count (up+down)	Equivalent PCU
Cycles (E.F: 0.5)	857	429	1697	848.5	1350	675
Motor Cycles & Scooters (E.F: 0.5)	2606	1303	1716	858	1615	807.5
LMV (E.F: 1)	812	812	530	530	249	249
Buses (E.F: 3)	205	615	116	348	0	0
Trucks (E.F: 3)	557	1671	378	1134	71	213
Animal Drawn Vehicles (E.F: 8)	0	0	0	0	4	32 ,
Others (E.F: 1.5)	218	327	151	226.5	175	262.5
Total	5255	5157	4588	3945	3464	2239
Width of Road	5.	8 m	6.5	m	3	m
DSV*(Table 3, 4, 5 and section 10.3 as per	60	000	60	00	20	000
IRC:64-1990) in PCU/DAY						
Maximum Capacity as per In PCU/day	12	000	120	000	4(000
IRC 64-1990, section 6.1= %Utilization DSV*0.5 % Utilisation	4	3.0	32	.9	50	6.0

DSV(Design Service Volume): it is defined as the maximum hourly volume (Vehicles per hour) at which vehicles can reasonably be expected to traverse a point or uniform section of a lane or roadway during a given time period under the prevailing roadway, traffic and control conditions while maintaining a designated level of service.

Fig - 1



PageZ

The condition of the road at Baradang and Majandih is good and it is well maintained. Whereas the road near Dharaspur is having road width only 3 m, which needs widening and maintenance. From the perusal of Table 3.16, it is found that at Baradang, current utilisation is 43.0% of maximum capacity of the road, at Majandih the current utilization is 32.9% of maximum capacity of the road and at Dharaspur, the current utilization is 56.0% of maximum capacity of the road.

2. ANTICIPATED IMPACT DUE TO TRAFFIC AND MITIGATION MEASURES

There in only one outgoing material, which is coal. The transportation shall be carried out through road either directly to end user or till railway siding by tipping trucks/ dumper having capacity 25 T. Total material to be transported is estimated around 7576 TPD (assuming total working days as 330 and production 2.5 MT of coal in a year). Since the end users will be various industries across the different states, hence the direction of movement of trucks cannot be exactly identified. Certain assumptions have been made with respect to the routes shown in **Fig 2**. The assumptions made are as follows:

- (i) Transport of coal directly till end user by road via Asansol-Gourangdih road. 1 MTPA coal shall be transported through this road. Approximately 244 trucks (to and fro) will move through this road. This route has been called as "Route-2" in **Fig 2**.
- (ii) Transportation of coal via road to any of the four railway sidings, namely, Bonjemehari, Barabani, Charanpur or Chinchuria railway siding. Approximately 1.5 MTPA will be moved to consumers through this road-rail combination. Approximately 364 trucks will move on these routes called as Route 1, Route 3, Route 4 and Route 5 of **Fig 2.**

The traffic survey was conducted as per IRC: 9-1972 at three locations namely Baradang, Majandih and Dharaspur in the up and down directions. Baradang location falls on Gourangdih-Asansol road (Route-2) and Dharaspur location falls on Rupnarayanpur-Gourangdih road i.e connecting road (Route-1) to Bonjemehari railway siding through which coal transportation is proposed. There will be an impact on carrying capacity of these two roads due to additional traffic load. Therefore, the adequacy of the road to support the additional traffic, its maximum capacity and the percentage utilization of the maximum capacity has been calculated. This has been done with respect to existing and future traffic load and the increment in utilization of maximum capacity has been calculated in **Table 2**

FIG 2: THE PROPOSED RAILWAY SIDING AND CONNECTING ROADS TO BE USED FOR TRANSPORTATION OF COAL

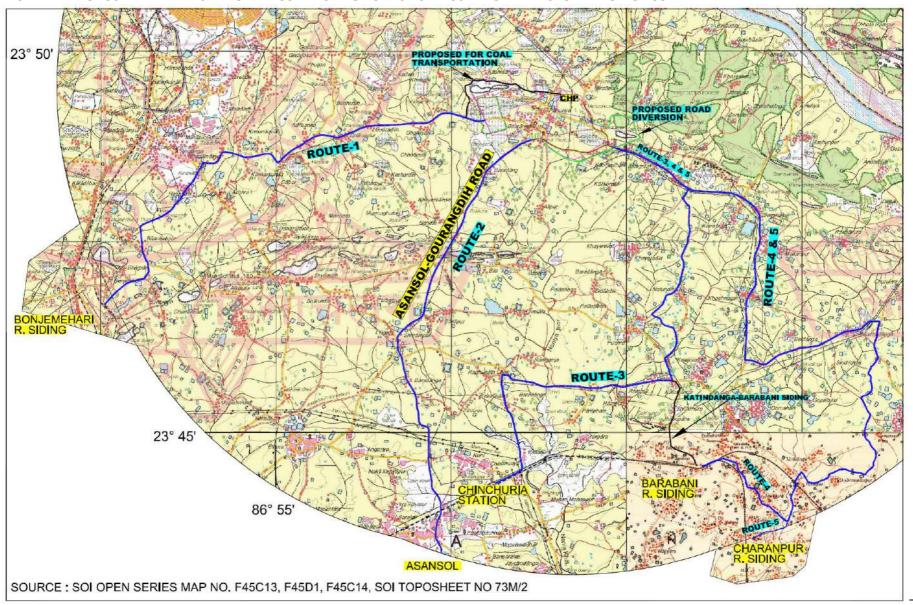


TABLE 2

OBSERVED EXISTING, ADDITIONAL TRAFFIC AND THEIR % UTILISATION

Code	Location	Existing Traffic	Additional traffic	Resultant traffic	Width of road	DSV# PCU/	М	aximum cap	##	
		(PCU/Day)	proposed (PCU/Day)	(PCU/ Day)			in PCU/ day	%	Utilization	
		January, 2018	(г солдау)	Day			,	Current in January, 2018	Resultant future	Incre- ment
а	b	С	d	e=b+c	f	g	h	i w.r.t c	j w.r.t e	k=j-i
T1	Baradang	5157	732	5889	5.8 m	6000	12000	42.975	49.1	6.1
Т3	Dharaspur	2239	1092	3331	3 m	2000	4000	55.9	83.8	27.3

Note-

Design Service Volume (DSV) in PCU/day as per Table 3&4 of IRC:64-1990 ## Maximum capacity as per IRC 64-1990, section 6.1 = DSV/0.5, in PCU/day

It can be seen in the above table that the resultant traffic load on Asansol-Gourangdig road (Route-2) at Baradang loacation will be 49.1 % of the Maximum capacity of the road. Where as on Rupnarayanpur-Gourangdih road (Route-1) at Dharaspur location, the resultant traffic load will be 83.8 % of Maximum capacity the roads. Thus it can be said that the current road width of both the location is sufficient to sustain the present and additional traffic.

2.2 Road diversion

There are two existing road passing through the core zone namely,

- (i) Road-1: **Asansol-Gourangdih road connecting Runakura ghat via Jamgram** is having width of about 7 m (PWD road), passing through the eastern part of proposed Gourangdih C quarry.
- (ii) Road-2: **Rupnarayanpur-Gourangdih road** is having width of about 3 m (Village road), connecting Gourangdih and Rupnarayanpur, passing through the western portion of Gourangdih-A quarry.

These two roads will get excavated during mining operation. Hence, for uninterrupted traffic flow, diversion of these roads is necessary which shall be as follows:

(i) Road-1: Asansol-Gourangdih road, connecting Asansol to Runakuraghat via Jamgram village is proposed to be diverted towards further east of the Gourangdih quarry-C.

(i) Road-2: The Rupnarayanpur-Gourangdih road is proposed to be diverted towards further west of the Gourangdih quarry-A and will be connected to Asansol-Gourangdih road.

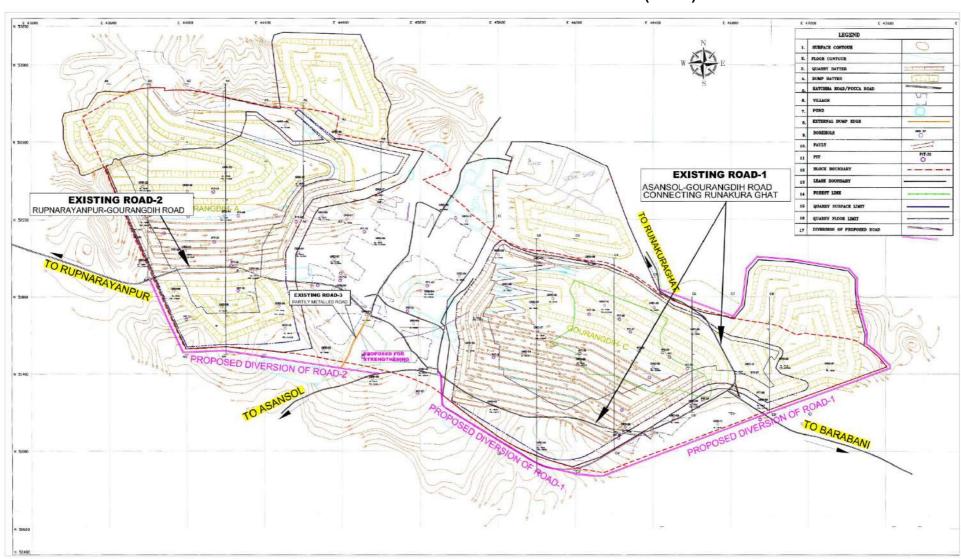
Both the roads will be reconstructed after diversion to a road width equivalent to their existing width.

Apart from the road diversion, road from Gourangdih village to proposed diversion of Rupnarayanpur-Gourangdih road (about 300 m in length), is also proposed to be made black topped/CC road (Road 3). Partly metalled road already exists on the road, which will have to be further strengthened.

The proposed diversion of Road-1 and 2 and strengthening of Road 3 are shown in 15th year stage plan given in **Fig 3**.

The impact will be there only on the path of the road due to alignment change but there will not be any adverse impact. Tree plantation is proposed along both the sides of the diverted road routes, which will act as an absorber of dust and noise pollution and also will improve the aesthetic view of the area.

FIG 3: 15TH YEAR STAGE PLAN SHOWING EXISTING ROADS (NO. 1&2) PASSING THROUGH ML AREA AND THE PROPOSED DIVERSION OF THESE ROADS AS WELL AS THE ROAD (NO. 3) TO BE STRENGTHENED



(A Government of West bengal Undertaking)
13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087
GOURANDIH ABC COAL MINE

Summary of Involved Plots in Mining Lease Area for Gourangdih "A" &"C" Block Area
P.S-Baraboni. District- Paschim Burdwan

Name of Mouza	Mouza J.L				Mr. Kon				
DASKIARI	No 3	Agri	Non Agri	Bastu	Water Body	ECL	FOREST	Govt/Vested	TOTAL (ACRE)
PANURIA	10	99.403	56.197	7.781	6.029		150.057	0.201	18.4500
JAMGRAM	20	4.52	0.939				139.037	0.065	382.2840 5.5240
KATAPAHARI	9	20.207	8.455	0.011		4.569	37.211	17.345	104.0380
	10	110.646	13.644	11.598	14.188	0	16.538	24.164 82.525	121.6810 249.1390
Total (Ha)		113.982	37.426	19.856 8.036	23.80I 9.632	14.733 5.962	270.479 109.461	178.117	881.116 356.583
	DASKIARI PANURIA ALIGANJ JAMGRAM KATAPAHARI PANURIA Total (Acre)	DASKIARI 3 PANURIA 10 ALIGANJ 11 JAMGRAM 20 KATAPAHARI 9 PANURIA 10 Total (Acre)	Name of Mouza Mouza J.L No Agri DASKIARI 3 12.584 PANURIA 10 99.403 ALIGANJ 11 4.52 JAMGRAM 20 34.29 KATAPAHARI 9 20.207 PANURIA 10 110.646 Total (Acre) 281.65	Name of Mouza Mouza J.L RATE No Agri Non Agri DASKIARI 3 12.584 5.665 PANURIA 10 99.403 56.197 ALIGANJ 11 4.52 0.939 JAMGRAM 20 34.29 7.58 KATAPAHARI 9 20.207 8.455 PANURIA 10 110.646 13.644 Total (Acre) 281.65 92.48	Name of Mouza Mouza J.L RAYTEE No Agri Non Agri Bastu DASKIARI 3 12.584 5.665 PANURIA 10 99.403 56.197 7.781 ALIGANJ 11 4.52 0.939 JAMGRAM 20 34.29 7.58 0.011 KATAPAHARI 9 20.207 8.455 0.466 PANURIA 10 110.646 13.644 11.598 Total (Acre) 281.65 92.48 19.856	Name of Mouza Mouza J.L RAYTEE No Agri Non Agri Bastu Water Body DASKIARI 3 12.584 5.665 5.665 PANURIA 10 99.403 56.197 7.781 6.029 ALIGANJ 11 4.52 0.939 0.011 3.032 JAMGRAM 20 34.29 7.58 0.011 3.032 KATAPAHARI 9 20.207 8.455 0.466 0.552 PANURIA 10 110.646 13.644 11.598 14.188 Total (Acre) 281.65 92.48 19.856 23.801	Name of Mouza Mouza J.L No RAYTEE RAYTEE Water Body ECL DASKIARI 3 12.584 5.665 5.665 5.665 6.029 6.029 ALIGANJ 11 4.52 0.939 0.011 3.032 4.569 JAMGRAM 20 34.29 7.58 0.011 3.032 4.569 KATAPAHARI 9 20.207 8.455 0.466 0.552 10.164 PANURIA 10 110.646 13.644 11.598 14.188 0 Total (Acre) 281.65 92.48 19.856 23.801 14.733	Name of Mouza Mouza J.L No RAYTEE RAYTEE Water Body ECL FOREST DASKIARI 3 12.584 5.665 5.665 5.665 5.665 5.665 6.029 159.057	No



(A Government of West bengal Undertaking) 13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087 GOURANDIH ABC COAL MINE(BLOCK-A & C)

MOUZA:		THE CONTENTION OF THE PEOCH	(-M & C)	
IVIOUZA:	PANURIA	J.L. NO:	X(TEN)	Sheet No :
		0.0 0.000	- Alicia)	Silect NO:

P.S. - BARABONI, DISTRICT- BURDWAN INVOLVED PLOTS IN MINING LEASE AREA

	Plot	No		Total Area	Required						T			
SL No	R.S.	L.R.	Class of Land	in	Area	Agri	-	ATEE	Water Body					
1472	649	Land of the second	FOREST	0.4	0.393	7611	HOII Agii	Dastu	water body	Govt./Vested	ECL	Forest	Total	Rem
1473	2266P		FOREST	9.46	3.109		-					0.393	0.393	
1474	822P		FOREST	35.32	0.875							3.109	3.109	
1475	822P	THE STATE OF THE S	FOREST	35.32	1.223		-					0.875	0.875	E. Hilliam
1476	2218		FOREST	0.59	0.600		-		Succession of the superior of the superior			1.223	1.223	
1477	2209		FOREST	0.07	0.063							0.600	0.600	
1478	2208		FOREST	0.59	0.566							0.063	0.063	
1479	2207		FOREST	0.23	0.195							0.566	0.566	
1480	2201		FOREST	6.08	2.318							0.195	0.195	
1481	647		FOREST	0.91	0.862							2.318	2.318	
1482	644		FOREST	7.35	7.171							0.862	0.862	
1483	636		ROAD	1.23	1.122						-	7.171	7.171	
1484	633		FOREST	8.221	8.221							1.122	1.122	
1485	634		FOREST	8.14	4.216							8.221	8.221	
1486	632		FOREST	1.56	1.238							4.216	4.216	E. L.
1487	592		FOREST	0.88	1.829							1.238	1.238	
1488	2281P		FOREST	8.68	2.392	-						1.829	1.829	
1489	2270P		FOREST	2.55	0.937							2.392	2.392	A luning land
1490	2276P		FOREST	30.2	16.007							0.937	0.937	
1491	2268		FOREST	9.45	10.749				3 3 3 3			16.007	16.007	
1492	643		FOREST	4.73	4.732							10.749	10.749	
1493	638		FOREST	12.61	12.409							4.732	4.732	
1494	250/2702		FOREST	5.75	5.839		-					12.409	12.409	
1495	253P	3	FOREST	41.5	36.558		and the second					5.839	5.839	
1496	248P		FOREST	36.7	35.434				3		ERN	36.558	36.558	د
		120		1 33.7 1	33,434			7	000	110		35.434	35.434	

Reforms Officer Barabani, Burdwan

(A Government of West bengal Undertaking) 13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087

GOURANDIH ABC COAL MINE(BLOCK-A & C)

MOUZA:	PANURIA	J.L. NO:	X(TEN)	Sheet No :
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INVOLVED PLOTS IN MINING LEASE AREA

	Plot No Total Area Required RAYATEE													
SL No	R.S.	L.R.	Class of Land	in	Area	Agri	Non Agri	Bastu	Water Body	Govt./Vested	ECL	Forest	Total	Rem
1497	1357		FOREST	4.9	4.932			119 19 19				4.932	4.932	
1498	1373		FOREST	0.03	1.490							1.490	1.490	
1499	1367		FOREST	0.59	0.618							0.618	0.618	
1500	1366		FOREST	0.68	0.680							0.680	0.680	
1501	1757		FOREST	6.05	6.160							6.160	6.160	
1502	1371		FOREST	1.95	0.363						- miciens	0.363	0.363	
1503	1366/2729		FOREST	1.38	1.428							1.428	1.428	
1504	1362/2728		FOREST	0.78	0.867	(Calling Services)						0.867	0.867	
					175.595	0.000	0.000	0.000	0.000	0.000	0.000	175.595	175.595	



(A Government of West bengal Undertaking) 13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087 GOURANDIH ABC COAL MINE(BLOCK-A & C)

MOUZA: KATAPAHARI J.L. NO: IX(NINE) Sheet No:

P.S. - BARABONI, DISTRICT- BURDWAN

INVOLVED PLOTS IN MINING LEASE AREA

	Plo	t No		Total Area	CONTRACTOR		RA	YATEE	-					T
SL No	R.S.	L.R.	Class of Land	in	Required Area	Agri	Non Agri	Bastu	Water Body	Govt./Vested	EC!	F	Tatal	-
1530	131P		BAID	0.69	0.574	0.574		Dustu	water bouy	dovi./ vested	ECL	Forest	Total	Re
1531	127		BAID	0.67	0.688	0.688	 						0.574	-
1532	124	201.30	DANGA	0.31	0.295	0.000	0.295						0.688	-
1533	123	To be the	PUKUR	0.57	0.552		0.233		0.553				0.295	-
1534	122		PUKUR PAR	0.05	0.078		0.078		0.552				0.552	
1535	221		BAID	0.05	0.043	0.043	0.078	-					0.078	
1536	120		KANALI	4.5	4.766	4.766							0.043	
1537	119		DANGA	0.16	0.166	4.700	0.166				-		4.766	
1538	118		BAID	0.82	0.811	0.811	0.100						0.166	
1539	117		BAID	0.17	0.17	0.17							0.811	
1540	116		BAID	0.14	0.155	0.155							0.17	_
1541	115		BAID	0.3	0.342	0.342							0.155	
1542	114		BAID	0.15	0.153	0.153							0.342	
1543	113		BAID	1.8	1.81	1.81							0.153	
1544	111		DANGA	0.41	0.412	1.01	0.412						1.81	
1545	110		BAID	0.11	0.103	0.103	0.412						0.412	
1546	109		DANGA	0.4	0.396	0.103	0.396		,				0.103	
1547	108		DANGA	0.570	0.578		0.578						0.396	
1548	103P		BAID	4.560	3.689	3.689	0.578						0.578	
1549	99	YA, SAMILE	DANGA	5.160	5.230	3.003	5.230						3.689	
1550	105	MIN'S SERVICE	FOREST	2.320	2.427		5.230						5.230	
1551	102P		FOREST	5.560	5.214		-					2.427	2.427	
1552	98		FOREST	6.630	6.573							5.214	5.214	
1553	213		FOREST	0.610	0.600			- 3				6.573	6.573	
1554	12P	N. Individualis	FOREST	18.850	18.056			,		K Land A A		0.600	0.600	1
		DIVISION OF THE		1 20.000	16.036				- /	300	15	18.056	18.056	

Block Land & Land Reforms Officer Barabani, Burdwan

(A Government of West bengal Undertaking)
13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087
GOURANDIH ABC COAL MINE(BLOCK-A & C)

MOUZA:	VATADALIAN		OCK-A & C)	
L. INGGER	KATAPAHARI	J.L. NO:	(V/susie)	
			IX(NINE)	Sheet No:

P.S. - BARABONI, DISTRICT- BURDWAN INVOLVED PLOTS IN MINING LEASE AREA

	Plo	t No		Total Area		RAYATEE								
SL No	R.S.	L.R.	Class of Land	in	Required Area	Acri			T.					
1555	9		FOREST	18.180	18.288	Agri	Non Agri	Bastu	Water Body	Govt./Vested	ECL	Forest	Total	Re
1556	7		FOREST	1.170	1.223				Carci C-Mil-on-Sept			18.288	18.288	1
1557	6		FOREST	0.060	0.054							1.223	1.223	1
1558	4		FOREST ·	1.170	1.147				ALEMEN STATE		Silen in	0.054	0.054	1
1559	1		FOREST	4.080	4.092							1.147	1.147	1
1560	746		MINES	5.240	5.474						The still	4.092	4.092	
1561	749P		MINES	4.400	3.505						5.474		5.474	
1562	747P		HOSPITAL	1.150	1.185						3.505		3.505	
1563	106		VITI	0.200	0.203						1.185		1.185	
1564	93P		ROAD	3.470	1.260					0.203			0.203	
1565	93P		ROAD	1.187	1.187					1.260			1.260	
1566	748P		BASTU	0.010	0.014					1.187			1.187	
1567	710		K ROAD	0.220	0.261					0.014			0.014	S. Pro
1568	700		BAID	0.800	0.807					0.261			0.261	
1569	701		BAID	0.660	0.798					0.807			0.807	
1570	141P		DANGA	1.260	0.328					0.798		THE STATE OF	0.798	
1571	350P		DANGA	1.240	0.947				1	0.328			0.328	
1572	133P		RAIL LINE	2.080	1.618					0.947			0.947	
1573	130P		BÁSTU	0.490	0.504					1.618			1.618	
1574	129		KANALI	1.230	1.312					0.504			0.504	
1575	125		BAID	1.660	2.503					1.312			1.312	
1576	128		PATH	0.370	0.365					2.503			2.503	
1577	107		PATH	0.370	0.300					0.365			0.365	
1578	104		RAILWAY	1.070	1.079					0.300			0.300	
1579	101		ABANDED MINE	2.250	2.266					1.079			1.079	
					2.200	1				2.266	Land	a	2.266	

Block Land & Land Reforms Officer Barabani, Burdwan The state of the s

(A Government of West bengal Undertaking) 13,Nellie Sengupta Sarani, 2nd Floor, Kolkata- 700087 GOURANDIH ABC COAL MINE(BLOCK-A & C)

MOUZA: JAMGRAM J.L. NO: XX(TWENTY) Sheet No:

P.S. - BARABONI, DISTRICT- BURDWAN

INVOLVED PLOTS IN MINING LEASE AREA

	Plot	No		Total Area		es training	RA	YATEE						
SL No	R.S.	L.R.	Class of Land	in	Required Area	Agri	Non Agri	Bastu	Water Body	Govt./Vested	ECL	Forest	Total	Ren
1663	192		BAID	0.820	0.839	0.839				Maren a series			0.839	
1664	188		BAID	0.750	0.743	0.743							0.743	
1665	185		BAID	1.240	1.204	1.204							1.204	
1666	180P		PUKUR PAR	0.520	0.272		0.272					NUMBER OF	0.272	
1667	179P		POND	4.620	2.548				2.548				2.548	
1668	219P		FOREST	5.840	2.634	4						2.634	2.634	
1669	176P		FOREST	23.455	23.455							23.455	23.455	
1670	178		FOREST	12.250	9.990							9.990	9.990	
1671	187		FOREST	1.410	1.132							1.132	1.132	
1672	227		BAID	0.250	0.281						0.281		0.281	
1673	190	The second	MINES	0.950	0.981						0.981		0.981	
1674	189		MINES	0.210	0.205						0.205		0.205	
1675	184		MINES	0.110	0.118						0.118		0.118	
1676	183P		MINES	2.836	2.836						2.836		2.836	
1677	181P		GLP	2.270	0.148						0.148		0.148	
1678	5891		BAID	0.222	0.222	0.222					NO.		0.222	A SAME TO SAME A
1679	5893		BAID	0.159	0.159	0.159		A Commission					0.159	
1680	5919		DANGA	0.291	0.291		0.291						0.291	
1681	5788		KANALI	0.062	0.062	0.062					10000		0.062	
1682	5894		BAID	0.019	0.019	0.019							0.019	
1683	5789		KANALI	0.450	0.450	0.450							0.450	
1684	5891		BAID	0.020	0.020	0.020						WE THE	0.020	
1685	5890		BAID	0.030	0.030	0.030	Santa Company						0.030	
1686	5895		KANALI	0.018	0.018	0.018				3			0.018	
1687	5743		KANALI	0.439	0.439	0.439				(all	nd &		0.439	

Block Land & Land Reforms Officer Barabani, Burdwan অতিরিক্ত জেলা শাসক এবং জেলা ভুমি

ভূমি সংস্কার আধিকারকের করণ পশ্চিম বর্ধমান বিবেকানন্দ সরণি, রামকৃষ্ণ মিশণ, কন্যাপুর আসানসোল, পিন – ৭১৩৩০৫

ইমেল – dlropaschimbardhaman@gmail.com

Enclosure-3
Office of the Additional District Magistr And

District Land & Land Reforms Officer Paschim Bardhaman

Vivekananda Sarani, Ramkrishna Mission, Kan Asansol, PIN - 713305

Email - dlropaschimbardhaman@gmail.com

Memo No.

1716

/DLRO-PAB/2023

11. 05-23 Date:

To The Chairman & Managing Director West Bengal Mineral Development & Trading Corporation Ltd.

> Sub :- Regarding availability of non- forest land for dumping of Overburden of Gourangdih ABC Coal mine.

Ref: His Office Memo no.MDTC/PM-5/144(F)/Pt-II/1083 dated 27/04/2023

Reference above, this is to inform You, that as per report of BL&LRO Barabani vide his Office memo no. 752 dated 04/05/2023, no such encumbrance free land is available in the adjoining area. This is for his kind information and necessary action.

Your's faithfully

District Magistrate Paschim Bardhaman

No.13016/77/2006-CA-I (Part) Government of India Ministry of Coal

New Delhi, 28th June, 2011

To,

M/s Gourangdih Coal Limited, Tower-A, 3rd Floor, DLG IT Park, 8, Major Arterial Road, Block-AF, New Town, Kolkata-700 156

Subject:

Approval of Mining Plan (April 2011) for Gourangdih ABC coal block submitted by M/s Gourangdih Coal Limited - Reg.

Sir,

I am directed to refer to your letter no.GCL/ MP./ MoC/2010/ 19 dated 3rd December, 2010 submitting therewith Revised Mining Plan (April 2011) and Mine Closure Plan (May 2011) and to say that the Revised Mining Plan (April-2011) including Mine Closure Plan (May – 2011) has been considered and the approval of the Central Government thereon is hereby conveyed under Section 5(2)(b) of the Mines & Minerals(Development & Regulation) Act, 1957 subject to the following conditions:-

- (i) The mining company shall take all necessary precautions regarding safety of mine workings, persons deployed therein.
- (ii) Mining Lease to be acquired shall not encroach into any other coal block.
- (iii) The approval of the Mining Plan is without prejudice to the requirement of approvals from competent/prescribed authority under the relevant rules/regulations etc.
- 2. Two copies of the approved Mining Plan duly signed by the competent authority are returned herewith with the request that a copy of the approved Mining Plan may be submitted to the concerned State Government for necessary action and also a photocopy of the approved Mining Plan may be sent to the Coal Controller for monitoring the block.

Yours faithfully,

(V.S. Rana)

Under Secretary to the Govt. of India

Encl: as above Copy to:

- (i) The Under Secretary, CPAM Section, Ministry of Coal for information and record.
- (ii) The Director, Coal Controller, 1- Council House Street, Kolkata.

Application No. Gourangdih ABC Coal MineWBCPA/APP00239/2023 Coal Controller Organization A subordinate organization of Ministry of Coal, Government of India,

ShastriBhawan, New Delhi 2023-10-09

To

West Bengal Mineral Development and Trading Corporation Limited

Address:

West Bengal Mineral Development and Trading Corporation Limited State- West Bengal District- Paschim Bardhaman

Email: wbmdtcl.gabc@gmail.com

Contact: 9836065776

Fax:

Subject: Approval of Mining Plan and Mine Closure Plan (first Modification) forGourangdih ABC Coal Mine of M/s West Bengal Mineral Development and Trading Corporation Limited

Sir,

I am directed to refer to your application for approval of Mining Plan and Mine Closure Plan for Gourangdih ABC Coal Mine located inRaniganj Coal Field Submitted through application number APP00239 of Single Window Portal of Ministry of Coal for approval of the Central Government under Rule 22EOf MCR 1960 for a rated capacity of 2.500Mtpa Peak capacity 3.7500 Mtpa, Lease area356.575Ha and Project area356.575 Ha has been considered and approval of the Central Government there on is here by conveyed under Section 5(2)(b) of the Mines & Minerals (Development & Regulation) Act 1957 subject to the following conditions:

- 1. The project proponent should ensure implementation of all observations made by internal committee during actual operation.
- 2. Project Proponent shall take all necessary precautions regarding safety of mine workings and persons deployed therein.
- 3. Mining lease of this block shall not encroach into any other adjacent coal block.
- 4. The cost of abandonment for carrying out the closure activities envisaged in the Mine closure plan is indicative. The actual cost for carrying out the activities at the time of final closure may be higher. The actual cost of abandonment will have to be borne by the project proponent for carrying out the closure activities.
- 5. The approval of the Mining Plan (Including Mine Closure Plan) is without prejudice to the requirement of approvals from competent /prescribed authority under the relevant rules/ regulations etc.
- 6. Approval of Mining plan is technical in nature, which is granted with a view to facilitating further developmental activities by the allocattee. This approval will have no effect on the penalty provisions of the agreement in case of nonachievement of Milestones.
- 7. Monitoring of milestone for development of mine will be as per efficiency parameters in CBDPA/CMDPA and appropriation of PBG will be done in case of failure/delay in compliance with the timelines of CBDPA/CMDPA.
- 8. Evacuation route/ roads/ water bodies/other surface features/infrastructure outside the Geological Block/Project Area shall not be part of the Mining Plan (in line with para 1.6 of OM F.No. 34011/28/2019-CPAM dated 29.05.2020 of MoC for guidelines for Preparation, Formulation, Submission, Processing, Scrutiny, Approval and Revision of Mining Plan for coal and lignite blocks).
- 9. Name of manufacturer, make of equipment/HEMM, model name suggesting the name of the manufacturer, if mentioned anywhere in the mining plan, has not been considered for approval.
- 10. R and R shall be done according to existing laws. If it has been mentioned anywhere in the mining plan, it has not been considered for approval.
- 11. Extraction of coal seams greater than 1.2m thickness has been envisaged in the mining plan (as was approved in the earlier mining plan). However, all efforts shall be made to extract coal thickness below this thickness also to

part

maximize reserve extraction within the block.

- 12. Dumping has been envisaged on areas outside the vesting block (as was approved in the earlier mining plan) and certificate of non-occurrence of seam and Lol has not been submitted for the area. A direction/advice was issued by MPS, MoC vide letter no. F.NO. 103/6/2016/NA [E-328890] dated 30.08.2023 regarding considering such cases in view of approval of dumping in the areas (outside the vested block) in the earlier mining plan and advancement in obtaining approvals like EC and FC. In the view of this, dumping has been allowed to be shown on the areas outside the vesting block (to be revised later, as per conditions), except for the first year. (a)During the first year, dumping shall be done within the vesting block boundary (leaving statutory distance from the block boundary) and ensuring compliance of provisions of Reg 108(5), CMR-2017.(b)Detailed exploration of the areas falling outside the block area, but inside the project area, shall be completed as soon as possible. In case of occurrence of coal in the areas, a revised mining plan, with no proposed dumping in such areas shall be submitted not later than one year of starting of mine. (c)In case of non-occurrence of coal in the areas under reference, a report shall be submitted to the competent authority. Dumping in the area outside allocated block boundary within project area shall commence only after submission of non-existence of coal certificate from CMPDI and LoI from State Govt.
- 13. Sector-B of the allocated block was not projectized in the earlier approved mining plan (2011) (as it is covered by thick habitations not willing to shift) and so not been projectized in the instant mining plan also. However, in future, if villagers agree to vacate the area, the mining plan shall be revised accordingly.

You are requested to download the copy of the mining plan and mine closure plan duly signed by the competent authority for needful actions and submissions at your end.

Yours Faithfully

(Aarti Mahawar)

Deputy Director,

Coal Controller Organisation (A subordinate organization of MinistryofCoal)

Copy to:

1.Under Secretary,NA section,MoC

2.Under Secretary, NA section, MoC



GOVERNMENT OF WEST BENGAL DIRECTORATE OF FORESTS



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

Bikash Bhawan, North Block, Third Floor, Saltlake City, Kolkata - 700 091. Tel No. 2334-6900/2358-3208, Fax. 91-033-2334-5946

e-mail.: pccfwl-wb@nic.in/pccfwloffice.fd-wb@bangla.gov.in, Visit us at www.wildbengal.com

Memo No.: 3362 / WL / 2M-33(Pt-II)/ 2021

Date: 23/11/2022

To:

The Chairman

State Environment Impact Assessment Authority (SEIAA)

Department of Environment, Govt. of West Bengal.

Sub:

Wildlife Conservation Plan of Gourangdih ABC Coal Mine - reg.

Ref.:

1.

General Manager (Projects), WBMDTCL's memo no. MDTC/PM-5/144/Env/2879 dated

11/10/2022.

2. APCCF & CCF, South-East Circle's letter no. 3105/SEC/2M-10 dated 21/10/2022.

Sir.

The Wildlife Conservation Plan for Gourangdih ABC Opencast Coal Mining Project is approved from this end for seeking Environment Clearance.

Encl.: as stated

Yours faithfully,

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

Memo No.: 33(2/3)/WL/2M-33(Pt-II)/2021

Date: 23/11/2022

Copy forwarded for information to :-

1. The General Manager (Project), West Bengal Mineral Development & Trading Corporation Ltd. E-mail: wbmdtcltd@gmail.com / wbmdtcl.gabc@gmail.com

2. The Chief Conservator of Forests, South-East Circle, West Bengal.

3. The Divisional Forest Officer, Durgapur Division, West Bengal.

Debal Ray)

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



WEST BENGAL MINERAL DEVELOPMENT & TRADING CORPORATION LIMITED (WBMDTCL)

(A Govt. of West Bengal Undertaking)

13, Nellie Sengupta Sarani, 2nd Floor, Kolkata-700087 Tel No.: 033-22520643, Email: wbmdtcltd@gmail.com

WILDLIFE CONSERVATION PLAN FOR GOURANGDIH ABC OPENCAST COAL MINING PROJECT

PROPOSED AT
VILLAGES PANURIA, KANTAPAHARI, JAMGRAM,
SHIBDHAWRA, BANDDHAWRA, LALBANDH,
GOURANGDIH AND BHUIAPARA,
TEHSIL BARABANI CD BLOCK, DISTRICT PASCHIM
BARDHAMAN, WEST BENGAL

{(2.5 MTPA R.O.M. COAL BY OPEN CAST METHOD) (M.L. AREA: 213.27 HA, PROJECT AREA: 356.575 HA)}

Prepared by:





MIN MEC CONSULTANCY PVT. LTD.

A-121, Paryavaran Complex, IGNOU Road, New Delhi - 110 030 Ph: 29534777, 29532236, 29535891; Fax: 091-11-29532568 Email:mining@minmec.com; Web site: http://www.minmec.Com

And

TERRATRIBAL ENVIRONMENTAL CONSERVANCY SOLUTIONS PVT. LTD.



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III	List of flora in the study area and core zone
IV	List of fauna in the study area and core zone
V	PCCF Certificate dt. 27-08-2021

1.0 IDENTIFICATION OF THE PROJECT

M/s West Bengal Mineral Development and Trading Corporation Limited (WBMDTC Ltd.) has been allotted Gourangdih ABC Coal Mine by Ministry of Coal, vide F. No. 103/6/2016/NA dated September 29, 2016 (copy given in **Annexure I**).

1.1 History of Gourangdih A, B & C Blocks

(Source: Para 1.2 of Mining Plan).

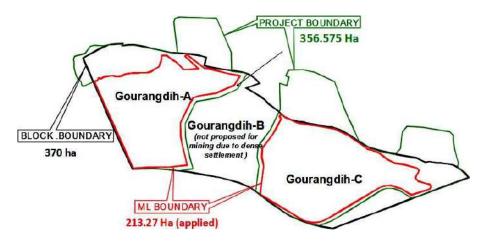
Previous to the allotment, parts of the coal mine had been exploited by both underground and opencast mining method since long. Due to insufficient geological information, mining activities in different time periods were scattered. During pre-nationalization period, private companies like M/s Bird & Co., Burrakar Coal Company and others worked extensively in the B-V seam by underground mining. B-VI seam was also developed in certain areas. B-II, B-IV and B-VI seams have also been exploited by open cast workings at some places.

Apart from the exploitation of coal, some private lessees worked fire clay quarries along the outcrop of B-V seams in the western part of the area. The extent of these quarries is limited in the west and east by faults F2-F2 and F6-F6 respectively. They are now abandoned.

Mine was earlier allotted to Gourangdih Coal Ltd. (A Joint Venture of HEPL and JSW Steel Ltd.) and TOR had been issued to them vide MOEF's letter no. J-11015/12/2011-IA.II(M) dated 30.06.2011 (Source: online proposal no. IA/WB/CMIN/7273/2010 on environmentclearance.nic.in). However, the coal block allocation was canceled based on Supreme Court orders in the year 2014. Thereafter this coal mines was allocated to WBMDTC Ltd. Due to lapse of validity of TOR awarded to previous allottee, WBMDTC Ltd, the new allottee submitted a fresh proposal with same parameters i.e. based on the already approved mining plan. The mining plan and mine closure plan was approved by Ministry of Coal on 28.06.2011 and the same has been transferred to and will be followed by new allottee i.e. WBMDTC Ltd.

The total block area is 370 Ha. Gourangdih block is divided into three sub blocks namely Gourangdih A (area: 127.53 Ha.), Gourangdih B (area: 90.83 Ha.) and Gourangdih C (area: 151.64 Ha.). The block boundary of Gourangdih ABC mine as well as its sub-blocks can be seen in **Fig 1** below. Among the 3 sub blocks, Gourangdih A and Gourangdih C have been worked partially both by underground and opencast method. Gourangdih B being the most thickly populated and built up area, the underlying seams were not worked and are mostly virgin. The proposal for mining as per Approved Revised Mining Plan is to mine Gourangdih-A and C, leaving Gourangih-B undisturbed due to dense settlement. Proposed production from the mine will be 2.5 MTPA. Anticipated life of mine would be 27 years. Opencast mining method has been selected.

FIG 1: MAP SHOWING BOUNDARY OF GOURANGDIH ABC COAL BLOCK, SUB-BLOCKS A, B & C AND PROJECT BOUNDARY



1.2 Salient features

The salient features of the project are summarized in **Table 1**.

TABLE 1: SALIENT FEATURES OF THE PROJECT

Project name	Gourangdih ABC Opencast Coal Mining Project								
Project proponent	West Bengal Mineral Development and Trading Corporation Ltd.								
Villages in block area	Panuriya (Panuria), Kantapahari, Jamgram, Shibdhawra (Shibdhara), Banddhawra, Lalbandh, Gourangdih and Bhuiapara								
Coordinates	23° 48' 30" to 23° 49' 45" N 85° 57' 45" to 85° 00' 15" E (as per allotment letter dt. 29.12.2016)								
Allotted block area	370 Ha								
Required Mining Lease Area	213.27 Ha								
Area required Outside lease	143.305 Ha								
Project Area	356.575 Ha								
Sub-blocks in main block of 370 Ha	Gourangdih A - 127.53 Ha Gourangdih B - 90.83 Ha Gourangdih C - 151.64 Ha								
Intent to mine	Only Gourangdih A & C (as per approved mining plan)								

Pre Mining landuse						
break up	Land pattern	Area (ha)				
	Agricultural Land	48.43				
	Fallow land (Danga)	44.07				
	Degraded land (Old quarry area)	61.316				
	Built up area	60.86				
	Water body	15.44				
	Forest land (protected & jungle)	109.459				
	Non agricultural land for colony (outside core area)	5.00				
	Non agricultural land for Rehabilitation (outside core area)	12.00				
	Total	356.575				
Total Geological Reserve	Net geological reserve, Quar 129.15 Million Tonnes (MT)	rry A, B & C =				
	 Quarry A&C (which are proposed to be mined) = 68.37 MT (Gourangdih A-27.18 MT + Gourangdih C-41.2 MT and Gourangdih B-Nil as the area is heavily build-up) 					
Mineable Reserves	68.37 million tonnes (from Gourangdih A&C, which are proposed to be mined)					
Extractable Reserves	24.46 (Gourangdih A) + 37.08 C) = 61.54 million tonnes	(Gourangdih				
Rated capacity	2.5 MTPA					
Life of the mine	27 years					
Stripping ratio	2.91 cum/t					
Total OB Generation	179.37 Mcum					
Method of Mining	Opencast Mechanized					
Blasting	Blasting required for overburder extraction.	n and coal				
Storage of explosives	Shed/ Magazine					
Working days	330 days, 3 shifts					
Manpower	494 for mining, 268 for ancillary	jobs				
Transportation	By road or rail to consumers	-				
Expected cost of the project	Rs. 621.71 crores (as per est Revised Mining Plan of 2011)	imates in				

Elevation	135 m to 174 m a.m.s.l.			
Topography	Mostly plain with gentle undulations and general northerly slope			
Water requirement	530 KLD for potable and 454 KLD for industrial purpose.			
Source of water	Ajay River till mine sump water becomes available to meet the demand			
Power requirement	11 KVA			
Power source	Power will be received from WBSEB through 33 KVA overhead line. It will be stepped down to 11 KVA			

2.0 PROJECT PROPONENT

WBMDTC Ltd., a government of West Bengal undertaking was incorporated in the year 1973 and has been engaged in the field of mining and trading of minerals in West Bengal since it's inception.

WBMDTC Ltd. has adopted and implemented new business strategies in its different sectors which have started yielding positive results. With the enactment of Coal Mines (Special Provisions) Act, 2015, WBMDTC Ltd had became eligible to get allocation of coal mines for sale of coal. WBMDTC Ltd. was declared by the Ministry of Coal as the allottee of Gourangdih ABC Coal Mine located in Paschim Bardhaman district.

3.0 LOCATION

The mine is present in villages Panuriya (or Panuria), Kantapahari, Jamgram, Shibdhawra (or Shibdhara), Banddhawra, Lalbandh, Gourangdih and Bhuiapara in Barabani CD Block of District Paschim Bardhaman, West Bengal. The Block area falls in the Survey of India, Open Series Map no. F45C13 and F45D1. The area is bound by following co-ordinates:

Latitude : 23°48'30" to 23°49'45" N Longitude : 86°57'45" to 87°00'15" E

The location can be seen in Fig 2.

Road Link: The area is well connected by the road. Two roads pass through the project area. One is Asansol-Gourangdih road connecting Runakuraghat via Jamgram, which passes over the eastern flank of Gourangdih C sub-block. Second is Rupnarayanpur-Gourangdih road, which passes through Gourangdih-A sub-block in western portion. At a later stage, these roads are proposed to be diverted as they will pass through quarry



FIG 2: LOCATION MAP OF THE PROJECT

The distance and direction to various significant roads around the mine is given below:

Roads	Distance & Direction from Project
Jamgram-Baraboni Road	Within
NH-2, Kulti to Durgapur	13.4 km, SSW
Domahani-Jamuria Road	7.2 km, SSE
NH-419, Kulti to Gobindpur	7.8 km, W

Railway Link: Gourangdih was a terminal railway station of Andal Gourangdih section of the Eastern railway and is located about 38 km from Andal, on the Howrah-Delhi line of Eastern Railway. The railway line connecting Gourangdih Station and Andal has since then been abandoned. The present nearest railway lines and stations are listed below:

	Distance, km (from project)	Direction (from project)
Railway lines		
Sitarampur to Tapasi	7.1	S
Jamtara to Asansol	7.7	W
Dhanbad to Asansol	12.4	SSW
Railway Stations		
Rupnarayanpur R.S.	7.8	W
➤ Sitarampur R.S.	12.5	SW
Asansol R.S.	13.0	S

Airport: Kolkata airport is situated at a distance of about 195 km SE and Andal airport at a distance of 40 km SE.

4.0 STUDY AREA

For the description of baseline scenario, the lease area has been considered as the "core zone". The 10 km radius around the proposed project forms the "buffer zone" i.e. the anticipated area of impact. The core zone and the buffer zone together have been termed as "study area". The core zone falls within Panuriya (or Punuria), Kantapahari, Jamgram, Shibdhawra (or Shibdhara), Banddhawra, Lalbandh, Gourangdih and Bhuiapara, under Barabani CD Block of District Paschim Bardhman, West Bengal. Study area covers various sub-districts such as Salanpur, Barabani, Jamuria of District Paschim Bardhman and Jamtara & Nala sub-district of District Jamtara. The study area can be seen in **Fig 3**.

4.1 Topography

In **Fig 3**, one can see that the topography of the central portion of the study area, between project area and Ajay river is sloping towards Ajay river in north, which lies 2.2 km from the project. The part of the study area which lies north of the Ajay River slopes southwards. The area south of the project i.e. bottom half of the study area is sloping towards Noniya Jhor Nala.

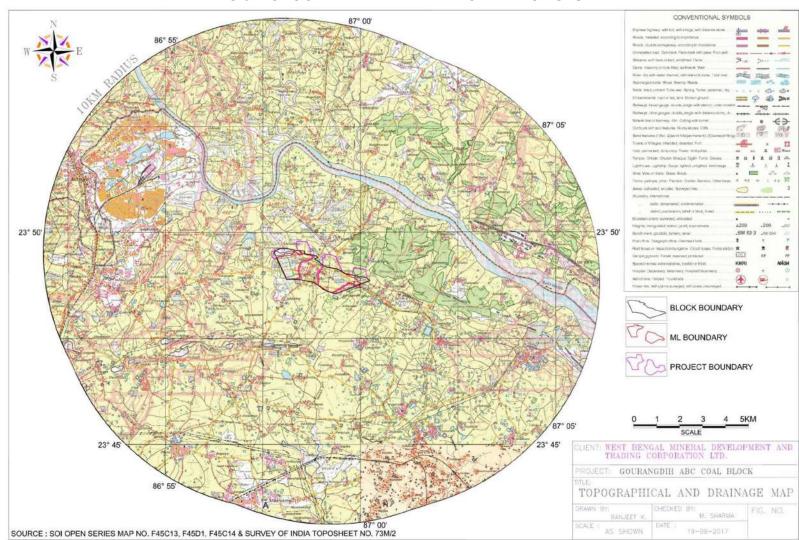


FIG 3: TOPOGRAPHY AND DRAINAGE MAP OF STUDY AREA

The surface elevation varies from minimum 93 m above MSL (near village Beldanga on bank of Ajay River) to maximum 180 m above MSL (near Alkusha village). The area is rich in coal reserves, therefore, there are several coal blocks present in study area. These have disturbed the topography by formation of pits and dumps.

4.2 Drainage

Ajay river (2.2, NW) flows in north-west to east direction which controls the drainage system of major portion of the buffer zone. While, Noniya Jhor, a seasonal nala controls drainage system of the southern portion of the study area. After flowing through study area and Asansol in the south, Noniya Jhor (2.4, S) is drained into the Damodar River. Two tributaries of Ajay river namely, Suriapani Jhor (5.2, NE) and Punta Khal (7.9, SE) are also following in the NE and SE direction, respectively, from the project. The drainage pattern in the study area is dendritic in nature.

4.3 Climate

The district experiences a warm temperate rainy climate with mild winter. The cold season starts from middle of November and continues till the end of February. March to May is dry summer intervened by tropical cyclones and storms. June to September is wet season while October and November is autumn.

(Source: http://bardhaman.nic.in/geography.html assessed on 20.01.2018)

Long term meteorological data is available from IMD station - Bankura (MO), located at a distance of 62 km in south direction of the project. Data is available for the period 1990 - 2007 from "Climatological Normal (1981 - 2010)" issued by IMD Pune for different meteorological parameters, such as temperature, rainfall and relative humidity and given in **Table 2**.

TABLE 2: TEMPERATURE, RELATIVE HUMIDITY AND RAINFALL, IMD STATION BANKURA (MO)

Month	Mean Temp	perature (°C)	Rela	tive	Mean Total
	Minimum	Maximum	Humic	dity %	Rainfall (mm)
			At 0830 HRS	At 1730 HRS	
Jan	11.4	25.1	77.0	61.0	18.2
Feb	15.8	29.1	71.0	55.0	20.4
Mar	20.3	34.4	63.0	45.0	32.1
Apr	24.9	37.3	69.0	53.0	40.7
May	26.3	37.4	72.0	59.0	100.9
Jun	26.6	35.7	79.0	72.0	271.0
Jul	26.4	32.8	85.0	82.0	363.0
Aug	26.3	32.5	86.0	82.0	352.3
Sep	25.5	32.4	87.0	83.0	253.4
Oct	23.3	31.8	84.0	79.0	86.8
Nov	17.9	29.4	81.0	71.0	16.0
Dec	12.9	26.2	80.0	67.0	9.1
Annual	21.5	32.0	78	67	Total = 1564
Average					

Source: Climatological Normal (1980 - 2010)

From **Table 2**, the following conclusions can be drawn:

- **1. Temperature:** The monthly mean of minimum temperatures ranges from 11.4°C in January to 26.6°C in June. While the monthly mean of maximum temperature ranges from 25.1°C in January to 37.4°C in May.
- **2. Relative Humidity:** The relative humidity at 08:30 hrs ranges between 63% in March to 87% in September, while the relative humidity at 17:30 hrs varies from 45% in March to 83% in September.
- **3. Rainfall:** It can be seen that, June to September are the months of heaviest rainfall, while October to May are of low rainfall. The annual rainfall varies from 9.1 mm in December to 363.0 mm in July. The annual average is 1564 mm.

4.4 Land Use

4.4.1 Land use in core zone

Total project area is 356.575 ha. This includes applied ML area of 213.27 ha and 143.305 ha outside of the ML. The break-up of the pre-mining land use is given in **Table 3**. The pre-mining land use can be seen in **Fig 4** in the Land Ownership map.

TABLE 3: PRE-MINING LAND USE OF THE PROJECT AREA

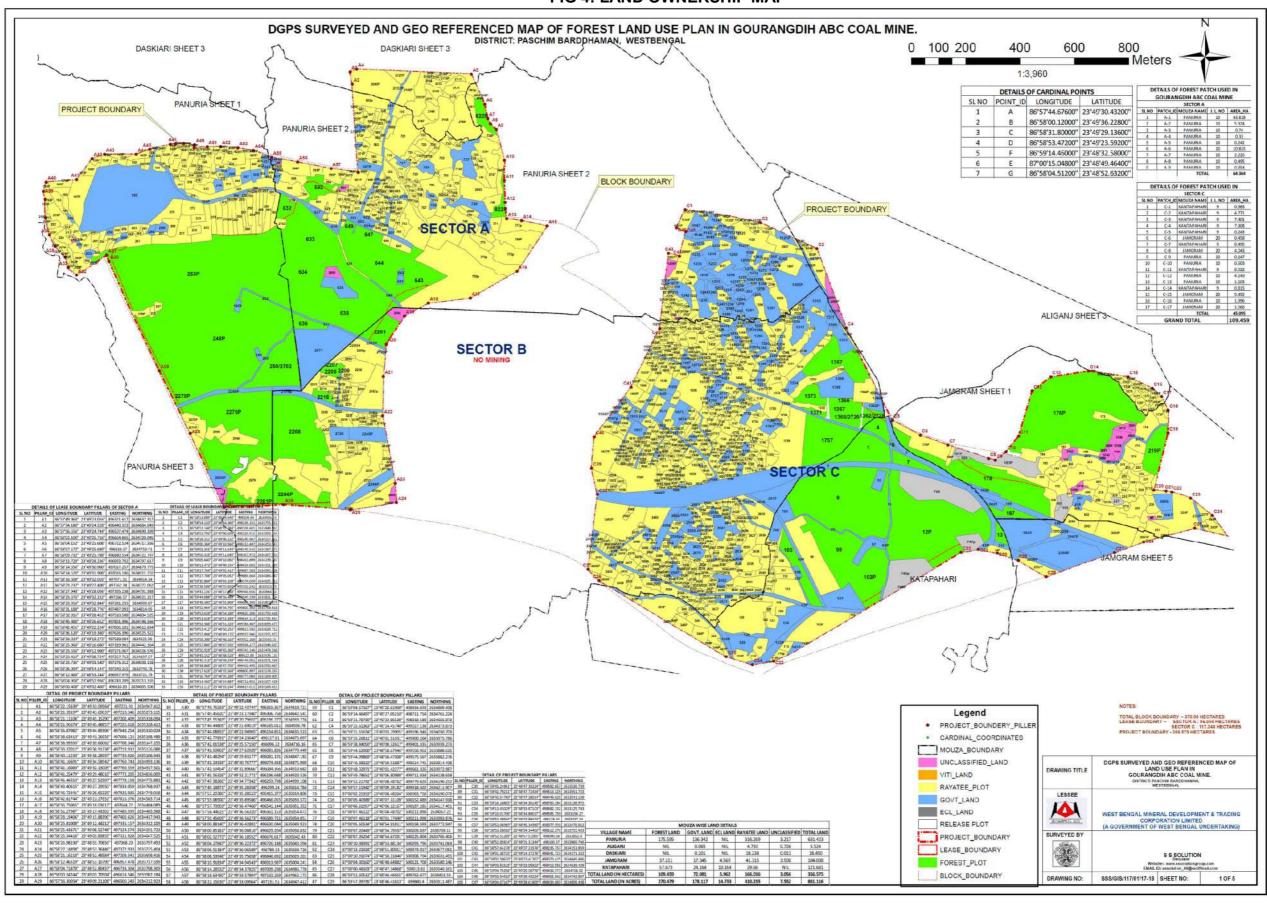
Land pattern	Total Area (Ha)	Within ML	Outside ML
	` ,	area (ha)	area (ha)
Agricultural Land	48.43	48.43	22.670
Fallow land (Danga)	44.07	21.40	
Degraded land (Old quarry area)	61.316	13.220	48.096
Built up area	60.86	26.140	34.720
Water body	15.44	7.640	7.800
Forest land (protected & jungle)	109.459	96.440	13.019
Non agricultural land for colony (outside core area)	5.00	-	5.000
Non agricultural land for Rehabilitation (outside core area)	12.00	-	12.000
Total	356.575	213.270	143.305

Source: WBMDTC Ltd.

Stage of land acquisition

Out of 356.575 Ha of Project Land, 109.459 Ha is Forest Land, for which application for diversion has been made. Out of 50 Ha identified Government Vested Land, request has been made to GoWB for perpetual transfer of 40 Ha. The Private Land will be procured from PAPs in consultation with District Magistrate, Paschim Bardhaman.

FIG 4: LAND OWNERSHIP MAP



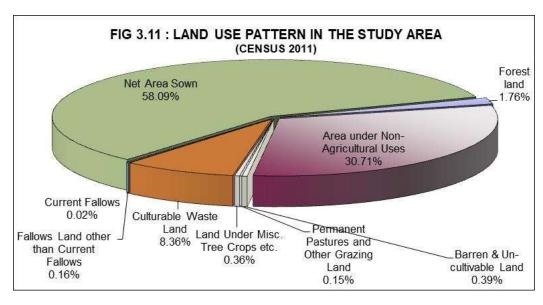
4.4.2 Land use in buffer zone

The land use pattern in the buffer zone of Gourangdih ABC coal mine as per Census 2011 is given in **Fig 4**, summarized in **Table 4** and detailed in **Annexure II**.

TABLE 4: LAND USE PATTERN IN STUDY AREA (AS PER CENSUS 2011)

Land use	Area (Ha)	%
Forest land	817.55	1.76
Area under non-agricultural use	14281.93	30.71
Barren and un-cultivable land	181.10	0.39
Permanent pastures and other grazing land	71.86	0.15
Land under Miscellaneous tree crops	168.11	0.36
Culturable waste land	3886.63	8.36
Fallow land other than current fallow	73.58	0.16
Current fallow	8.92	0.02
Net sown area	27015.77	58.09
TOTAL	46505.45	100

A perusal of **Fig 5** shows that the net sown area accounts for a major portion (58.09%) followed by area under non-agricultural use (30.71%), culturable waste land (8.36%) and forest land (only 1.76%).



The latest land use of the study area can be seen in **Fig 6**, wherein the latest satellite image has been extracted through Google Earth.

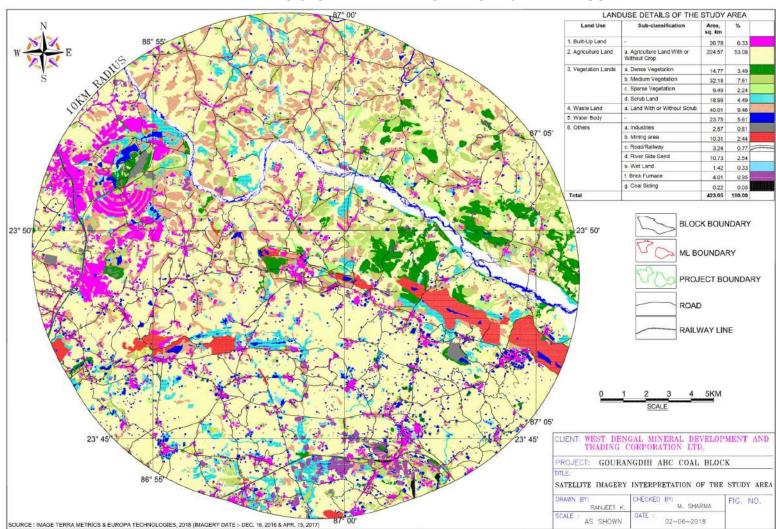


FIG 6: SATELLITE IMAGERY OF 10 KM RADIUS

5.0 FOREST

Out of total mining lease area, 109.459 Ha (30.7% of the project area) is Forest Land (protected and jungle). Application for seeking Stage I Forest Clearance has been submitted vide Proposal No. FP/WB/MIN/26869/2017 dated 12.07.2017. The DGPS surveyed and geo referenced map of forest land use plan in Gourangdih ABC coal mine can be seen in **Fig 4** earlier.

Total forest in the study area as per Census 2011 is 817.55 ha (1.76%). Forest as classified by Champion and Seth is Tropical Dry Deciduous Forest Group 5B. The forests are scattered in different parts of the study area. Most of the forests remain leafless during dry season. As per SOI open series map, there are 13 protected forests (PF) present in study area. These can be seen in **Fig 7** and list is given in **Table 5**.

SI. No. **Description** Distance, km Direction 1. PF Near Gaurangdih Within core zone 2. PF Near Narayanpur ΝE 0.6 PF Near Kashidanga Ε 3. 8.0 PF Near Bankhet 5.6 NE 4. 5. PF Near Chhota Rampur 5.9 **ENE** 6. PF Near Sarbediya 5.9 **ENE** 7. PF Near Petuashal 6 NNE 8. PF Near Harilpahari 6.5 NE PF Near Shialjori 9. 6.5 NNE 10. PF Near Baraliya 8 **ENE** 11. PF Near Bagchhera 8.6 NE 12. PF Near Nimdangal 9.7 **ENE** 13. PF Near Pahargora 10 Ε

TABLE 5: LIST OF FORESTS IN STUDY AREA

There are no National parks, Wildlife Sanctuary, Biospheres reserves and migratory corridor of any schedule-1 species within 10 km radius. The nearest National Park is Simlipal at a distance of 228 km in SSW direction. The nearest wildlife sanctuary is Ramnabagon at a distance of 70 km in SE.

6.0 FLORA

The plant species list, based on authenticated by Range Forest Officer, Asansol (T) Range and uploaded by forest official in part-II of the forest dereservation proposal of Gourangdih ABC Coal Mine (FC proposal no. FP/WB/MIN/26869/2017), for both core zone and study area have been listed in **Annexure III**.

Core zone: 63 species of trees, 3 of shrubs & herbs and 2 of grasses and sedges are present in the core zone. Common native species such as Neem, Jamun, Mango, Tad, Acacia etc. are present in the core area.

Buffer zone: During the present survey, 84 plant species were recorded. These included 76 tree species and 6 shrubs/herbs. Besides this two grass species are also present in the buffer zone.

Agricultural crops and fruit trees form a part of the commonly found flora in the study area.

Cropping pattern: The district has two principal cropping regions: Alluvial on the Eastern part and Laterite on the Western part. On an average 58% of total population lives on agriculture. (source: http://bardhaman.nic.in/ collect/admin_repo1213.pdf accessed on 10.05.2018)

Rice is the most important crop of the district and in the alluvial plains to the east little else is grown. The rice grown with its numerous varieties can broadly be grouped under the three primary classes distinguished from one another by distinct characteristics and they are - The Aus or autumn, the Aman or winter and the Boro or the summer rice. Paddy covers maximum of the gross cropped area. Among commercial crops Jute, Mesta and Sugarcane, potato, oil seeds are cultivated in marginal areas.

(Source: http://bardhaman.nic.in/agri/agriculture.htm#food accessed on 10.08.2018).

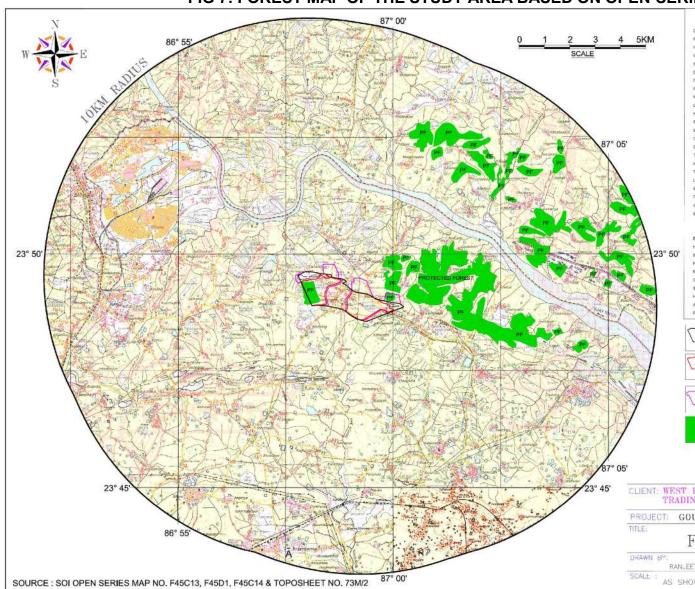
Production and productivity of major crops in Bardhman District (Average of 5 years: 2004-08) has been given in **Table 6**.

TABLE 6: PRODUCTION AND PRODUCTIVITY OF MAJOR CROPS IN BARDHMAN DISTRICT (AVERAGE OF 5 YEARS: 2004-08)

Name of crop	Name of crop Kharif		Rabi		Summer			Tota	I	
	Production ('000t)	Productivity (kg/ha)	Production ('000t)	Productivity (kg/ha)	Production ('000t)	Produc y (kg/		Producti ('000		Productivity (kg/ha)
Major Field C	rops									
Rice	48.1	3069	1231.1	2953	642.5	312	29	1921.	7	3012
wheat	-	-	6.7	2313	-	-		6.7		2313
Pulses	-	-	1.2	849	-	-		1.2		849
Oilseeds	-	-	43.1	850	-	-		43.1		850
Jute	223.0	3019	-	-	-	-		223.0)	3019
Potato	-	-	1058.0	21674	-	-		1058.	0	21674
Major horticu	Iture crops									
Cucurbits	-	-	126.0	9687	-	-		126.0		9687
Brinjal	-	-	145.2	17767	-	-		145.2	2	17767
Cabbage	-	-	92.7	28513	-	-		92.7		28513
Cauliflower	-	-	85.9	27167	-	-		85.9		27167
Okra	-	-	55.8	11330	-	-		55.8		11330
Sowing windo (start and end				Potato	Oilse	ed		Jute	٧	egetables/
Kharif-Rainfed			July 1st to 4th week	-	-	,	week	rch 4 th (to April week	1	oughout the r
Kharif-irrigated		-	-	-			-		-	
Rabi-Rainfed			-	-	-			-		-
Rabi Irrigated			Jan 3 rd to 4 th week	Nov 1 st to 2 nd Nov 1 st to week		to 3 rd		-		-

Source-Agriculture Contingency Plan for District Bardhaman-31.12.2011

FIG 7: FOREST MAP OF THE STUDY AREA BASED ON OPEN SERI



Plantation on roads: It was observed that plantation of species on the roadside are Acacia catechu, Aegle marmelos, Madhuca longifolia, Azadirachta indica, Butea monosperma, Dalbergia sisoo, Ficus benghalensis, Ficus religiosa, Mangifera indica, Pisidium guava, Syzygium cumini, Tamarindus indica, Tectona Grandis, Terminalia tomentosa etc.

Vegetation in the Hamlets: The species composition near the hamlets is different from those found in the natural environmental conditions. The vegetation structure surrounding the hamlets reflects a typical character of habitation. The trees in the settlement area are catering to the needs of local population such as fodder, fuel-wood, fruit, and timber and for religious purposes. Some of the common species found in the hamlets comprise *Mangifera indica, Syzygium cumini, Madhuca indica, Terminalia arjuna etc.*

Medicinal plant species: The study area is also endowed with several medicinal plants. Many medicinal plants are found in the study area which are used by the people of villages for their daily use and minor ailments. The common medicinal plants of the region are Azadirachta indica, Butea monosperma, Ficus benghalensis, Ficus racemosa, Ficus religiosa, Madhuca longifolia, Mangifera indica, Ocimum sanctum, Syzigium cuminii, Terminalia grandis, Terminalia arjuna, Zizyphus mauritiana etc.

Fuel wood plant species: Villagers collect dry leaves, stems and log to fulfill their daily need for fuel wood requirement. Syzygium cumini (Jamun), Mangifera indica (Mango) etc. are the species, used for fuel wood.

7.0 FAUNA

There are no National parks, Wildlife Sanctuary, Biospheres reserves or migratory corridor of any Schedule-1 species within 10 km radius. The nearest National Park is Simlipal at a distance of 228 km, SSW and nearest wildlife sanctuary is Ramnabagon at a distance of 70 km, SE.

Core and Buffer zone were taken into consideration while preparing a list of species of fauna. The list of fauna authenticated by Range forest officer, Asansol (T) Range for both core zone and study area is given in **Annexure IV.**

Core zone: Due to the presence of trees, shrubs, herbs and grasses in the core zone, a variety of fauna is found. Common avifauna such as house sparrow, house crow, pigeon, common myna, owl, koel, bulbul and wood sandpiper were observed. Mammals such as hare, squirrel, common house rat, mongoose and Indian field mouse have been observed. Amongst reptiles, common garden lizard, chameleon and Indian cobra were seen or reported by villagers.

Buffer zone: During primary survey of study area and from secondary data sources, total of 41 species of fauna have been estimated, comprising 14 species of mammals, 14 species of birds, 8 species of reptiles and 5 species of aquatic fauna (fishes).

The common species of fauna observed in the study area are Common Langur, Common House Rat, Indian Hare, etc. The common bird species i.e. avifauna recorded during the survey in the study area are House Sparrow, Indian Mayna, Pigeon and Grey Partridge etc.

The list of fauna authenticated by Range forest officer, Asansol (T) Range for both core zone and study area is given in **Annexure IV** wherein no schedule I species was reported. The latest letter dated 27.08.2021 from the Office of the Principal Chief Conservator of Forests & Head of Forest Force, West Bengal regarding Certificate regarding the absence of Schedule-I species & non-existence of any Wildlife/National Sanctuary within 10 Km. of the project area of Gourangdih ABC Coal Mines, as required by the EAC, MoEF&CC, New Delhi states that there is no direct evidence of Schedule-I Species in the project and buffer area but it is learnt that regular rescue of Rock Python within 10 km of the project site exists. (Copy enclosed as **Annexure V**). Thus only one Schedule species i.e. Rock Python has been found occasionally in the buffer area.

The project site surroundings does not support any habitat for any group of wild animal except few animals such as monkey, squirrel and lizards species, which are well adapted to urban areas. They live in the agricultural field, open scrub land and near the river and nala side. As per recommendation report dated 05.10.2018 issued by DFO, Durgapur Division, the forest present in the core zone does not form part of any endangered wildlife habitat.

Animal Husbandry: Animal husbandry occupies an important place in the rural economy of Burdhaman district. It provides them with the draught power required for cultivation and an additional means of supplementing their income. To the farmers, cattle are a valuable form of wealth.

The live-stock plays a vital role in the agricultural economy of the district, because it not only supplies milk, meat, manure, bones, hides and skins, hoofs and horns, but also serves as draught cattle for drawing carts, ploughs and is also used for drawing water. Live-stock products in the district comprise milk, eggs, skins and hides, wool, manures, etc.

As per the survey and reports, no ecologically sensitive area/migratory corridor is present within 10 km radius of project

8.0 IMPACT ON ECOLOGY

Ecological impact from open cast mining result from generation of pollutants both in air and water. Further excavation of soil causes damage to its structure and composition. The adverse impact of proposed mining activity will cause:

 Loss of vegetation by excavation and dumping thereby affecting the species for which such vegetation was the host. Movement of species away from mining lease area due to noise, vibration and light.

The impact on the terrestrial ecosystem due to operation of the proposed mining would mainly occur from deposition of air pollutants. Particulates, sulphur dioxide and oxides of nitrogen are major pollutants from traffic. These pollutants affect biotic and abiotic components of the ecosystem individually and synergistically.

Chronic and acute effects on plants and animals may be induced when the concentration of these pollutants exceeds threshold limits. The dust particles depending upon their size and weight settle down at varying distances on vegetation and soil surfaces in the prevailing and direction. Foliar deposition of dust may interrupt gaseous exchange through stomatal clogging, thereby affecting plant growth. The effects of air emissions on nearby vegetation and crop lands are not likely to be adverse as the pollutants concentration is expected to be well within the prescribed standards.

Chronic exposure to SO_2 causes injury characterized by yellowing of the leaf (Chlorosis). Scientific literatures reveal that low concentration of SO_2 over long period lead to intravenal chlorosis in high humidity. However at higher concentrations, SO_2 combines with moisture in the air to form aerosol which erodes cuticle and cell membrane, thus inviting easy entry of pathogens. It may alter the pH of the soil. Changes in pH of the soil may affect microflora and fauna of the soil. Acute injury is characterized by development of dry dead areas with an ivory to brown colour (necrosis). Taking a seasonal and annual average, the threshold for chronic plant injury has been estimated at approximately 130 $\mu g/m^3$ (A.J Dvorack and B G Lewis, 1978).

USEPA air quality criteria for SO₂ stipulates 0.2 ppm (524 $\mu g/m^3$) level when visible injury to sensitive vegetation in humid regions after 3 hours exposure is observed. In another case, level 0.5 ppm SO₂ level (1310 $\mu g/m^3$) for 1 hour exposure results in visible injury to sensitive vegetation in humid regions. At higher SO₂ concentration of 10 ppm (26214 $\mu g/m^3$), visible injury to vegetation in arid regions is observed. Such high ambient air concentration of sulphur dioxide, is not likely to occur in the area.

USEPA air quality criteria for NO₂ stipulates 2 ppm (3760 μ g/m³) level when foliar injury to vegetation at 4 hours exposure is observed. At a lower NO₂ concentration of 0.25 ppm (470 μ g/m³) during the growing period, decrease of growth and yield. Such high ambient air concentration of nitrogen dioxide is unlikely in the study area.

The cumulative 24-hour average incremental GLC from the proposed Gourangdih ABC coal mine when added to the baseline concentration of SO_2 and NO_2 observed in the study area would not be more than 38.225 $\mu g/m^3$ and 48.190 $\mu g/m^3$, respectively which is well within the National Ambient Air Quality Standards. Therefore it can be seen that these values

are much lower than the threshold limits for damage to terrestrial flora and as such, the impact on the terrestrial ecosystem would be marginal.

The general adverse impacts, usually in case of mine are:

- Impact on species of flora and fauna in the form of relocation for their survival, due to diversion of proposed 109.459 ha forest land (Protected and Jungle).
- Dust emission from mine due to excavation and transportation, affects the effective photosynthesis by covering the plant/ tree leaves by thin dust layer during dry months which however will be washed away in rainy months.
- Disturbance to birds and animals due to bright light and unusual noise during operation activity.
- There may be discharge of excess unutilised pumped out mine water into the nearest natural stream after settlement of suspended solids. As the streams are seasonal and the discharge will also be during monsoons, no major impact is envisaged on the surface water bodies and on the fresh water eco-system.
- The effluents generated from the mine will be treated and reused after complying with prescribed standards. Therefore, these too are not anticipated to impact ecology. In fact the waste water, after treatment, will be used for watering the plantation.

9.0 MANAGEMENT OF ECOLOGY

- Compensatory afforestation: As per the application made for seeking prior approval of Central Government under section 2 of the Forest (Conservation) Act, 1980 for Diversion of fresh forest area, encumbrance free 111.32 Ha of Government land has been provided by the Additional District Magistrate & District Land & Land Reform Officer, Purb Bardhman, on which compensatory plantation shall be done equivalent to trees that shall be removed for mining purpose.
- Green Belt: Plants act as natural sink for a variety of pollutants as well as replenish air with fresh oxygen. Therefore, establishment of greenbelt and plantation along various facilities and periphery is an important aspect of mitigation plan under ecology. The main consideration during development of green belt and plantation are as follows:
 - Effective trapping of dust and emissions
 - Adequate dilution of accidental releases
 - Noise absorption
 - Balancing eco environment

- Waste water reuse
- Aesthetics
- fast growing, evergreen with large crown

As a single plant does not have all the qualities, a mixture of several varieties of plants has been chosen.

The widths of the belt will be 7.5 m all along the boundary. Plantation on 45 m safety zone between Quarry A and settlements of Panuriya and Gourandih as well as between Quarry C and these settlements shall be carried out.

- Other plantation: Plantation shall also be carried out along roadside and around Administrative buildings, facilities and in vacant undisturbed areas as well.
- Reclamation plantation: The other measures for management of ecology will comprise of mainly of plantation for rehabilitation. Once the simultaneous backfilling of mine void commences from 5th year, the reclamation process over the backfilled area will also commence. Reclamation of external OB dumps as well as top soil dump will also eventually take place. The reclaimed area will be 238.4 ha under agroforestry, 0.19 ha under plantation and 65.61 ha under agriculture. At the end of life of the mine the total afforested area will be 304.2 ha comprising 62.97 ha external OB dump, 13.73 top soil dump, 213.27 ha excavation, 4 ha roads and 10.23 ha built up area.
- **Plantation program of mine:** A plantation program over life of mine has been planned in a phase wise manner. The plantation shall be started from first year of mining and till fifth year about twenty seven thousand trees shall be planted. The total plantation till the end of life of mine, shall be done on 226.84 ha., out of which 132.5 ha. will be backfilled area, 62.97 ha. external dump area, 7.52 ha. greenbelt and 23.85 ha will be others i.e. undisturbed area. The stage wise cumulative plantation are tabulated in **Table 7.**

TABLE 7: STAGE-WISE CUMULATIVE PLANTATION

SI. No.	Year*	Greenbelt		External Dump area		Backfill	Backfilled Area		Others Roads Built up area Tota (undisturbed area, etc)		Built up area		otal		
		Area (ha)	No. of trees	Area (ha)	No. of trees	Area (ha)	No. of trees	Area (ha)	No. of trees	Area (ha)	No. of trees	Area (ha)	No. of trees	Area (ha)	No. of trees
1	5 th year	7.52	18800	60.5	151250	16.8	42000	23.85	59625	0	0	0	0	108.67	271675
2	10 th year	7.52	18800	62.57	156425	60.5	151250	23.85	59625	0	0	0	0	154.44	386100
3	15 th year	7.52	18800	62.97	157425	85.45	213625	23.85	59625	0	0	0	0	179.79	449475
4	27th year (end)	7.52	18800	62.97	157425	132.5	331250	23.85	59625	0	0	0	0	226.84	567100
5	Post Mine closure	7.52	18800	11.09	27725	213.27	533175	23.85	59625	4	10000	10.23	25575	269.96	674900

Note- density of tree plantation is proposed 2500 tree/ha (see EAC observation point xxii of TOR)

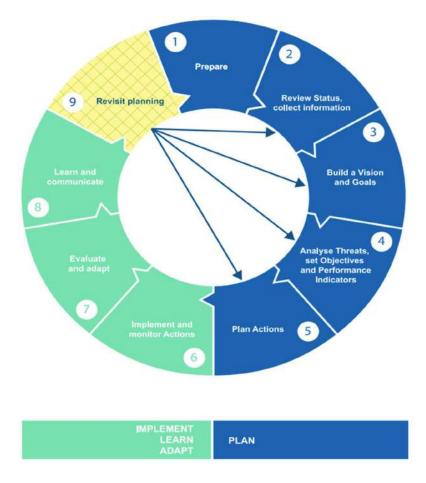
10.0 MITIGATION MEASURES FOR WILDLIFE CONSERVATION

10A.0 Wild Life Conservation Plan for Schedule I and Schedule II species in the core & buffer zones

The primary threats to biodiversity are due to human activities. These include land use changes affecting habitats and ecosystems, hunting for food or for cultural reasons; or larger factors such as pollution, climate change and pressures from expanding human populations and their needs. Hence, it is essential to assess comprehensively the driving factors of threat and engage the right people, especially local community and local governance in planning from the start. These will include the communities closest to the species who may provide critical information about the species, the pressures these species face, and who will inevitably be stakeholders in conservation actions. Establishing the 'value' of a species to humans is intrinsic to its conservation. Finding 'win-wins' for people and wild species has been the goal of many conservation strategies, but both finding and then delivering them is recognised to be often very challenging. This will often require scientific approach, infrastructure and creating incentives for changes in human behaviours which will be truly supportive of conservation and be sustainable. The purpose of a planning exercise will (i) first be the assessment of status and distribution of the species, (ii) assessment of general and species-specific threats, (iii) determination of action plan, both long and short term, and (iv) engagement of local community and governance in the conservation process. This determination will usually be the result of a systematic process of prioritisation of species and area.

When a wild population is threatened by major disruption of its habitat through a proposed major land use change, such as mining; species planning in these circumstances could be part of a wider environmental impact assessment. The proposed project will be an open cast mechanized mine having production capacity 2.5 MTPA, mining lease area of 213.27 Ha and project area 356.575 ha. Project has been classified as "Category-A" Mining Project as per the EIA Notification dated 14th September, 2006. The project area (356.57 ha) is termed as "core zone". The area within 10 km radius around the periphery of the project boundary has been considered as the "buffer zone" for identifying and assessing impact with respect to air, water, noise, land use, ecology, socio-economic environment, etc. The core zone and buffer zone together comprise the "study area". The Environmental Impact Assessment and Environment Management Plan for the mine addressing the environment related issues are prepared in accordance with the requirements of Terms of Reference prescribed by Ministry of Environment, Forest & Climate Change, Govt. of India. The study evaluates the prevailing environmental conditions. The adverse impacts have been identified and possible mitigation measures have been drawn in order to protect the wildlife, especially the Scheduled species.

The evaluation and action planning are based on the IUCN SSC Species Conservation Planning Cycle guidelines given by the International Union for Conservation of Nature (IUCN) in 2017.



It is imperative to evaluate the impacts as cumulative as the area is already a mining zone and there are eight (08) **active mining projects** within the buffer region (10 km) of the proposed project area (Table 8).

Table 8. List of coal mines within buffer zone (10 km radius) of Gourangdih ABC Coal Mine, WBMDTCL

SL. NO.	NAME OF MINES	OWNER	SITE LOCATION	ADMINISTRATIVE BLOCK	AERIAL DISTANCE	PRESENT STATUS
1	GB -COLLIERY	ECL	JAMGRAM,SALANP UR AREA	BARABANI	4.32 KM	RUNNING
2	GOURANGDIH COLLIERY	ECL	GOURANGDIH,SAL ANPUR AREA BARABANI		0 KM, ADJACENT MINE	RUNNING
3	MOHANPUR COLLIERY	ECL	MOHANPUR,SALAN PUR AREA	, , , , , , , , , , , , , , , , , , ,		RUNNING
4	SANGRAMGARH COLLIERY(DABOUR +SAMDI)	ECL	SAMDI,SALANPUR AREA	SALANPUR	8.9 KM	RUNNING
5	DALMIA COLLIERY	ECL	BASUDEBPUR, SALANPUR AREA			ABANDONED
6	ITAPARA COLLIERY	APARA COLLIERY ECL		BARABANI	3.70 KM	RUNNING
7	BARMUNDIA COLLIERY(KD SEAM)(U/G MINE)	ECL	PANCHGACHIA, SALANPUR AREA	BARABANI	10 KM	ABANDONED
8	SARISHATALI COLLIERY (ICML)	CESC	SARISHATALI, JAMGRAM	BARABANI	5 KM	RUNNING

Therefore it is envisaged that, there will be general impacts as follows,

- 1. Within the 10 km buffer of the proposed project the land use is human-dominated. Almost 58.09% of the area is under agriculture (Fig. 3.12, 3.13 in para 3.12.2), and the built-up and non-agricultural area comprise of 30.71%
- 2. The area under forest (1.76%) and waterbodies are very less to sustain diverse wildlife. Therefore, common wildlife occurs in small forested patches, away from human habitation and active mining areas.
- 3. Already disturbed site due to high human interference, blasting, noise and vibrations.
- 4. No continuous forest patch and lack of corridors.
- 5. There are patches of small waterbodies in and around the agricultural land and builtup areas which might be inaccessible to wild animals. The waterlogged areas within the abandoned mines may be accessible to wildlife but the quality of them may be questionable.
- Habitat for small mammals (Schedule II) such as jungle cat, foxes and jackals are already disturbed due to presence of mines and agricultural fields. Their current remaining habitat may be restricted to the abandoned mine areas around the buffer of the proposed project site.
- 7. Habitats for snakes (Schedule II) which are reported from the area, are remaining in forest patches and nearby agricultural lands because of food provisions.
- 8. The dwindling forest area in and around the proposed project area may not support tree-dwelling species such as langur and birds.
- Road traffic and movement of heavy vehicles create continuous disturbance and ward off wildlife.
- 10. There is chance of loss of forest cover in the western part of the active mining area of the proposed project site. The wildlife in this small forest patch will be displaced from the habitat.
- 11. There may be increase chance of man-animal conflict as the wild habitat will shrink.
- 12. There is lack of awareness about the Scheduled animals among locals, and displaced animals straying in the human habitation may increase conflict.

It is therefore important to evaluate species/group-specific action plan for the Scheduled animals (I & II) in detail. The action planning will consist of (i) Impact assessment and (ii) Conservation plan.

10A.1 WCP for Schedule I species: Target animal – Indian Rock Python

10A.1.1 Assessment of impacts on Indian Rock Python

a. Ecological description of the species

The Indian Rock Python (*Python molurus*) is thick-bodied and smooth scaled snake that may reach a size upto 10 ft. The overall colour varies from body full of irregular shaped patches with main dorsal colour white mixed with yellow, grey or brown. The colour of patch mostly dark brown or blackish, between these patches yellowish-brown colour exists. Pythons are non-venomous. It lives in a wide range of habitats, which includes swamps, marshes, rocky foothills, woodlands, open forest, and scrublands as found in the buffer region of the Project area. The species hides in abandoned mammal burrows, hollow trees and bushy thickets (Groombridge & Luxmoore, 1991). It needs a permanent source of water. Locomotion is

usually with the body moving in a straight line, however they move slowly and rarely attack human. Indian pythons are strictly carnivores and feed on small mammals, birds, and reptiles.

Habitat requirements:

- Burrowing, occupy natural crevasse underground, near water hole
- Prey on small mammals (may include larger mammals if prey population exists)
- May stray to agricultural fields for rodents

b. Distribution in Project site (within 10 km buffer)

No presence was recorded in the primary survey. According to West Bengal Forest Department (vide communication Memo no. 551/8 dated 06/05/2022 from DFO Durgapur Division) 5 sightings/rescue records were found in last five years spanning from 2017 to 2021. The records show that, the python were sighted/rescued from Dashkehari, about 1.5 km north from the project site, at Lalgang, 5.5 km south to the project site, at Chayanpur, 3 km west from the project site and at Madhaichak, 7 km south-west from the project site. It is presumed that the python reported from Gourangdih Bazar may be a rescue case.

c. Identification of major threats

All the python reports are very scant, with a frequency of one in a year near abandoned mines, built-up areas and agricultural lands. It can be deduced that the population is very small and sparse, and the abandoned mines provided access to underground burrows for the species, whereas proximity to agricultural lands provide water and small prey base such as rodents. Therefore the pythons occupied/reported such areas. No man-animal conflict regarding pythons were reported during the biodiversity assessment, while interacting with the locals and forest department.

The threats to the species in the 10 km buffer of the project site can be summarized as.

- 1. Accidental killing on the road
- 2. Lack of burrowing hole and water holes
- 3. Conflict killing

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10.1.2 Conservation Plan

Table 9 Action Plan for Indian Rock Python

S. No	Actions		Frequency	Execution	E	Budgetary allocation	on
No.	Immediate action	Long term		agency	Unit cost	Recurring cost (per annum)	Total Capital cost over life of mine (27 years)
1.	Habitat enhancements through providing artificial burrow made of Half Round RCC Pipes, size 600-1000 mm dia with a length of 2.5 m. OR, Round RCC Pipes, size 600-1000 mm dia with a length of 2.5 m The half-round pipes will go up-curve into the ground and round pipes will go under the surface of the ground with 1.5 ft above-ground clearing, with gentle slope of 30°, open end on the ground for entry, with soil on the top to hide the pipe. The entry will be open and shall be camouflaged with trees and shrubs. The location of the burrows shall be selected carefully near potential habitats of the	Monitoring	Once at the initiation of the project	WBFD	6 pipes & placement underground, 1.0 Lakh	0.3 Lakh	8.8 Lakh
2.	pythons. Small Water holes near python burrows – 3mX3mX1.5m shallow dug open pits, no cement lining, surrounded by shrub vegetation and grass to reduce erosion and provide camouflage.	Monitoring for water availability. Removal of silt	Creation of waterhole Once at the initiation of the project. Monitoring &	WBFD	6 pits, 0.2 Lakh	0.2 Lakh	5.4 Lakh

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S.	Actions	Frequency	Execution	Budgetary allocation			
No.	Immediate action	Long term		agency	Unit cost	Recurring cost (per annum)	Total Capital cost over life of mine (27 years)
			de-siltation annually				
3.	Information signage, Wildlife Signage at prominent places near the road site and crossings to create awareness	-	Once at the initiation of the project	WBFD	Given in Table 13 as cumulative		ulative
4.	-	Rescue & rehabilitation	As and when required	Eco-Club Rapid Response Team established within one year of the commence ment of the project, under supervision of WBFD	Give	n in Table 13 as cum	ulative
5.	Awareness campaigns	-	On occasions of World Environment Day & International Day for Biological Diversity & Wildlife week	Eco-Club under supervision of WBFD	Give	n in Table 13 as cum	ulative
		Total for conser	Diversity &	ock Python =			

10A.2 WCP for Schedule I species: Target animal - Sloth Bear

10A.2.1 Assessment of impacts on Sloth Bear

a. Ecological description of the species

Sloth bears (*Melursus ursinus*), occupy a wide range of habitats including forests, scrublands, and grasslands where boulders and scattered shrubs and trees provide shelter. The most common shelter is a den, a cavern like structure generally in rocks. Sloth bears avoid areas where human disturbance is high, however, the bear may raid agricultural areas in search of fruits and *mahua* in these parts. Sloth bears like to escape from the heat of the day and forage for food at night. They will start to become active as the sun starts to set. This is also the time when many insects such as termites are more active. They subsist primarily on termites, ants, and fruits. This is the only species of bear adapted specifically for myrmecophagy (ant and termite-eating) and also mango, fig and other fruits. They have special liking for the honey for which the animal can climb trees and knock down honeycombs, later collecting it on the forest floor.

As no bear was sighted in the proposed project site during survey and only reported in historical research papers, it can be deduced that they are no longer present in the 10 km buffer of the proposed project site. It can also be deduced that the high human pressure and lack of suitable habitat makes it less probable for their occurrence in the area.

Therefore, preventive/precautionary management and conservation actions are needed for the species.

10A.2.2 Conservation Plan

Table 10 Action Plan for Sloth Bear

S. No.	Actions		1 1 1	Execution	Bu	ation	
	Immediate action	Long term		agency	Unit cost	Recurring cost (per annum)	Total Capital cost over life of mine (27 years)
1.	Information signage, Wildlife Signage at prominent places near the road site and crossings to create awareness	-	Once at the initiation of the project	WBFD	Given in Tab	le 13 as cumu	lative
2.	Awareness campaigns	-	On occasions of World Environment Day & International Day for Biological Diversity &	Eco-Club under supervision of WBFD	Given in Tab	le 13 as cumu	lative

	S.	Actions		Frequency	Execution	Budgetary allocation		
	No.	Immediate action	Long term		agency	Unit cost	Recurring cost (per annum)	Total Capital cost over life of mine (27 years)
Ī				Wildlife week				

10A.3 WCP for Schedule II target animals

10A.3.1 Group – Mammals (Target animals: Jungle cat, Jackal, Indian fox, Langur)

a. Impact assessment

Jungle cat

The jungle cat (*Felis chaus*) is a medium-sized cat inhabits places with adequate water and dense vegetation, such as swamps, wetlands, littoral and riparian areas, grasslands and shrub. It is common in agricultural lands and has often been sighted near human settlements. The jungle cat is typically diurnal and hunts throughout the day. Primarily a carnivore, the jungle cat prefers small mammals such as gerbils, hares and rodents. It also hunts birds, fish, frogs, insects and small snakes.

Golden Jackal

The Golden jackal (*Canis aureus*) is the largest and most widespread of the jackals. Its fur is a mixture of black and white, with buff on the shoulders, ears and legs. Its diet consists of rodents, reptiles and fruit and subsist by scavenging on carrion and garbage. Its preferred habitats consist of flat shrublands, humid reeded areas and floodplains. The typical habitat of the golden jackal can be anywhere from the dry deciduous forests, semi-arid regions to agricultural lands and close to human settlement habitats.

Bengal fox

The Bengal fox (*Vulpes bengalensis*), also known as the Indian fox, favours semi-arid, flat to undulating land, bush and short grassland habitats. It is relatively widespread in scrub, thorn or dry deciduous forests, or short grasslands. In the Paschim Bardhaman region, the species is confined to plains and open scrub forests. Bengal foxes are predominantly crepuscular and nocturnal. Their diet consists mainly of termites, ants, beetles, spiders, small birds, softfurred rats and Indian field mice.

Grey langur

The northern plains grey langur (*Semnopithecus entellus*), also known as the Bengal sacred langur or Hanuman langur, is diurnal, and is both terrestrial and arboreal. It eats fruits and leaves, seeds, flowers, buds, bark and insects, including caterpillars. It is also fed fruits and vegetables provided by humans, and some groups get a substantial portion of their diets from food provided by temples and from raiding crops.

These species have common occurrence in these parts of Paschim Bardhaman and in and around the proposed project site. As there are active mines, it is presumed that

the species are no longer present in the core proposed mining area, and took refuge in the nearby forest patches (GPS 23°49'20.01"N, 87° 0'51.41"E Protected Forest area) and abandoned mines. Most of them are habitat generalist and occur frequently in human-dominated landscapes.

- The major threats are presumed as human animal conflicts, road kills and loss of forest patches.
- The abandoned and re-forested mines may provide good habitats for these species.
- All the species need waterholes under vegetation cover in an undisturbed area.

b. Conservation plan

Table 11 Action Plan for Schedule II mammals

S.	Actions		Frequency	Execution	Budgetary allocation		ocation
No.	Immediate action	Long term		agency	Unit cost	Recurring cost (per annum)	Total Capital cost over life of mine (27 years)
1.	Afforestation	Monitoring of survival	Bi-annual monitoring	Eco-Club under supervision of WBFD	Addressed in Section 9.0		
2.	-	Rescue & rehabilitation	As and when required	Eco-Club Rapid Response Team established within one year of the commencement of the project, under supervision of WBFD	Given in Table 13 as cumulative		
3.	Information signage, Wildlife Signage at prominent places near the road site and crossings to create awareness	-	Once at the initiation of the project	WBFD	Given i	n Table 13 as o	cumulative
4.	Awareness campaigns	-	On occasions of World Environment Day & International Day for Biological Diversity & Wildlife week	Eco-Club under supervision of WBFD	Given in	n Table 13 as o	cumulative

10A.3.2 Group - Birds (Target species: Red junglefowl)

a. Impact assessment

Red junglefowl

The Red junglefowl (*Gallus gallus*) is a tropical bird, has a mix of feather colours, with orange, brown, red, gold, grey, white, olive and even metallic green plumage. Jungle fowl use logged and regenerating forests and often found near human settlement.

The species needs scrublands and vegetation cover for their habitat and these kind of habitat is patchily distributed throughout the 10 km buffer area of the proposed project site. The undulating terrains of the abandoned mines can also be habitat for the species. As they are adapted to human dominated area, no major threat is envisaged. However, poaching for meat can be threat to the species.

b. Conservation plan

No species-specific action plan is required. However, general signage and awareness campaigns may be carried out along with other species.

10A.3.3 Group - Reptiles (Target species: Spectacled cobra, Rat snake, Indian chameleon, Russell's viper)

a. Impact assessment

Spectacled cobra

The Indian cobra (*Naja naja*), also known as the spectacled cobra, is a venomous snake contain post-synaptic neurotoxin and cardiotoxin. inhabits a wide range of habitats such as dense or open forests, plains, agricultural lands (rice paddy fields, wheat crops), rocky terrain, wetlands, and it can even be found in heavily populated urban areas, such as villages and city outskirts. The Indian cobra is often found in the vicinity of water. Preferred hiding locations are holes in embankments, tree hollows, termite mounds, rock piles and small mammal dens. They predate upon small rodents and frogs.

Indian rat snake

The Indian rat snake (*Ptyas mucosa*), darash or dhaman, is a common species of non-venomous large snake which is diurnal, semi-arboreal, fast-moving and harmless to humans. They inhabit forest floors, wetlands, rice paddies, farmland, and suburban areas where they prey upon small reptiles, amphibians, birds, and mammals. Adult members of this species emit a growling sound and inflate their necks when threatened.

Indian chameleon

The Indian chameleon (*Chamaeleo zeylanicus*) are found throughout much of India. Like other chameleons, this species has a long tongue, feet that are shaped into bifid claspers, a prehensile tail, independent eye movement, and the ability to change skin colour. They move slowly with a bobbing or swaying movement and are usually arboreal (tree-dwelling). They eat small insects on trees.

Russell's viper

Russell's viper (*Daboia russelii*) is a venomous snake. The head is flattened, triangular, and distinct from the neck. The snake is mostly found in open, grassy or bushy areas, but may also be found in second growth forests (scrub jungles), on forested plantations and farmland. Russell's viper is terrestrial and active primarily as a nocturnal forager and prey upon rodents and frogs.

b. Conservation plan

Table 12 Action Plan for Schedule II reptiles

S.	Actions		Frequency Execution		Budgetary allocation			
No.	Immediate action	Long term		agency	Unit cost	Recurring cost (per annum)	Total Capital cost over life of mine (27 years)	
1.	-	Rescue & rehabilitation	As and when required	Eco-Club Rapid Response Team established within one year of the commencement of the project, under supervision of WBFD		,		
2.	Snake bite information and anti-venom	-	Anti-venom shall be present in Forest Beat Offices	WBFD, Eco- Clubs		0.5 Lak	h	
3.	Information signage, Wildlife Signage at prominent places near the road site and crossings to create awareness	-	Once at the initiation of the project	WBFD				
4.	Awareness campaigns	-	On occasions of World Environment Day & International Day for Biological Diversity & Wildlife week	Eco-Club under supervision of WBFD				

10B. Overall Wildlife Conservation Plan (WCP) and total budgetary provision for wildlife conservation measures within the project site

The overall Wildlife Conservation Plan can be broadly classified into 10 categories, viz., (i) Plantation, (ii) Biological reclamation of de-coaled void & left out OB dump, (iii) Maintenance of Safety, (iv) Wastewater & waterbody management, (v) Species-specific action plans, (vi) Rescue & rehabilitation, (vii) Capacity building, Mass environmental education and

awareness, (viii) Institutionalization of conservation action, (ix) Prevention of Zoonotic disease, (x) Hiring of Wildlife & Forestry expert in Trainings, Education & Awareness programmes, development of IEC materials and signage, habitat restoration and periodic monitoring for conservation effectiveness assessment (CEA).

- (i) **Plantation**: The detailed planning for compensatory afforestation and Green Belt development is described in Section 9.0.
- (ii) **Biological reclamation of de-coaled void & left out OB dump**: Filing up and biological reclamation of de-coaled void, Plantation and Biological reclamation of left out OB dump shall be carried out to restore mining area after all target resources were extracted.
- (iii) **Maintenance of Safety**: A Safety Zone will be demarked and access to any wildlife or human will be prevented through fencing, plantation and signage.

For minimizing coal fire, a well-designed fire fighting system will be maintained within mine to deal with possibilities of fire. Water sprinklers and fire hydrants of adequate specification will be provisioned at strategic locations to deal with any emergency. To prevent wild fires, water tanks with tractors and Sprinkler Systems will be provided by PP to each of the Beat offices of the Forest Department.

The roads leading to and from the mine shall have caution boards warning drivers to slow down for animal crossings, if any develop in the future. The drivers shall be sensitized not to hit stray animals on the road.

The emissions from the mines shall always be kept within the norms so that surrounding environment will always be clean and comfortable for humans, wildlife and vegetation.

Care shall be taken that no food or degradable waste is openly disposed. This could attract wild animals near to human habitation and create man-animal conflict. Hence, disposal of wastes shall always be on the designated and protected place.

Solar street lights shall be installed near forest beat offices and range offices.

(iv) Wastewater & waterbody management: Waste water from domestic sources (toilets/canteens/ baths/ kitchens) will not be released into the environment but treated in septic tank system or STP. Thus, the flora and fauna shall not be exposed to any contaminants.

- Company will refill the existing water bodies at the adjoining areas to the Gourangdih ABC Coal Project in consultation with Forest Department during the dry season which serve as water source for the wild animals. This, apart from the waterholes created for specific species conglomerate, would help to meet water requirements of wild animals and birds.
- (v) **Species-specific action plans**: The species-specific conservation plans are described in section 10A in detail.
- (vi) Rescue & rehabilitation: The animals which will be rescued from the project area or from the adjoining areas to the project would be taken to the nearest Animal Rescue Centre of the Forest Department (preferably Ramnabagan, Paschim Bardhaman District and Surulia, Purulia District) with the help of the trained Joint Forest Management Committee (JFMC) Eco-Club members under the supervision of Forest officials and staffs and all the expenses including transportation charges and any other charges as sought by the Forest Department will be borne by the PP. PP will also provide the local Forest Department officials / staff with required resources to help implement this plan.
- (vii) Institutionalization of conservation action: A committee shall be formed under the Chairmanship of DFO, Durgapur. Other members of committee would be local B.D.O. or his representative, concerned Range Officer, members of all JFMC Eco-Clubs and two representatives of User Agency who will be responsible for the implementation of the WCP. The committee would also review the progress of the recommended measures as per the Plan, at least twice every year and take action to correct the course, if required. There are eight JFMCs under the Gourangdih Forest Beat Office and Sarishatali Forest Beat Office. It is therefore required to establish Eco-Clubs at each of these eight JFMCs to assist in execution of WCP.

Number of Forest Beat Offices within the Project area and Buffers (10 KM): Two

I Gourangdih Forest Beat Office: Vill- Gourangdih, Po- Panuria, Dist- Paschim barddhaman (Within Project area, Block-A)

Il Sarishatali Fore Beat office: Vill-Sarishatali, Po- Kapistha, Dist- Paschim Barddhaman (Within buffer zone)

Number of Range Office with in the Project area and Buffer: One

I Rupnarayanpur Range: Po- Rupnarayanpur, Dist- Paschim Barddhaman (Within buffer zone)

Gourangdih ABC Coal Mines is situated under the Forest Beat Office : Gourangdih Forest Beat Office and Sarishatali Forest Beat Office.

JFMC under the Gourangdih Forest Beat Office - Six

I Rosna JFMC : Vill- Rosna, Po- Rosna, Dist- paschim Barddhaman

II Lalband, Panuria JFMC : Vill- Panuria, Po- Panuria, Dist- Paschim Barddhaman

III Bonpara JFMC: Vill- Bonpara, Po- Panuria, Dist- Paschim Barddhaman

IV Kaskuli JFMC : Vill- Kaskuli, Po- Panuria, Dist- Paschim Barddhaman

V Jitpur JFMC : Vill- Jitpur, Po- Uttarampur, Dist- Paschim Barddhaman

VI Aliganj JFMC : Vill- Aliganj, Po- Panuria, Dist- Paschim Barddhaman

JFMC under the Sarishatali Forest Beat Office - Two

I Khoyarbani, Jamjuri, Sarishatali, Shyamapur, Sirisdanga JFMC: Po- Jamgram, Dist - Paschim

Barddhaman

II Gourbazar, Binodihi JFMC: Po- Panuria, Dist- Paschim Barddhaman

(viii) Capacity building, Mass education and awareness:

The Eco-Clubs shall be equipped with campaigning equipment such as Portable Address System (Hand mikes), rescue gears for snakes and small mammals, motor cycle for rapid response to rescue calls.

The forest staffs in each of the beat offices shall be equipped with Search Lights, torches, solar charger and battery for wild surveys.

To ensure scientific monitoring of the wildlife during initiation and operational phases of the proposed project, camera traps shall be a better option. In accordance with the large landscape and undulating inaccessible terrain, a total of 100 camera traps shall be needed for comprehensive assessment. To carryout education and awareness programmes LCD Projector and compatible sound system shall be kept at a strategic location such as Divisional Forest Office for mass awareness purposes.

Awareness about the variety of faunal species, their status of endangerment and behaviour will be spread through signage erected at designated sites determined by Forest Department, posters/ seminars/workshops by Eco-Club to sensitize the

- villagers. By gaining correct scientific information, the villagers will be in a better position to protect themselves from animals and in return will not harm them also. Such situation reduces, man-animal conflict, which usually arise due to myths and fear or hatred of animals.
- (ix) Prevention of Zoonotic disease: The domestic livestock do graze in forests of this area as stall-feeding is seldom practiced. Hence, there is probability of transmission of communicable disease to wild animals. However, there is no record of wild ungulates (deer etc.) in the proposed project area and buffer region.
 - Though negligible chance of spreading of zoonotic diseases, precautionary measures shall be taken. This needs to be done through awareness and training programmes on animal health. Monitoring of disease in domestic animals through animal health camps periodically.
- (x) Hiring of Wildlife & Forestry expert in Trainings, Environmental Education & Awareness programmes, development of IEC materials and signage, habitat restoration and periodic monitoring for conservation effectiveness assessment (CEA)

Table 13 Capital investment for activities which contribute to wildlife conservation from Environmental Management Plan Budget (Cumulative Table)

S.	Actions		Budgetary allocation				
No.			Unit cost (Lakh)	Recurring cost (per annum)	Total Capital cost over life of mine (27 years) (Lakh)		
1.	Plantation in Green belt, fruit trees and on	undisturbed area at 31.37 ha	1.5	-	47.06		
2.	Biological reclamation of de-coaled void &	left out OB dump of 100.1 ha	1.0	-	100.1		
3.	Maintenance of Safety		LS	LS	22.0		
4.	Wastewater & waterbody management						
	Species-specific action plans	Action Plan for python		-	14.2		
5.		Action Plan for Schedule II reptiles		-	0.5		
6.	Rescue & rehabilitation		3.0	-	81.0		
7.	Institutionalization of conservation action		4.0	0.2	9.4		
8.	Capacity building, Mass education and awa	areness	LS	LS	40.0		
9.	Prevention of Zoonotic disease		1.0	-	27.0		
10.	Hiring of Wildlife & Forestry expert in Training Education & Awareness programmes, developed and signage, habitat restoration and period conservation effectiveness assessment (Classical Conservation effectiveness)	elopment of IEC materials lic monitoring for	LS	1 year at Initiation Phase, 2 Years during Operational Phase and Last 2 years	15.0		
			Gran	d Total for WCP =	(356.26)		

ANNEXURES

Government of India Ministry of Coal

O/o the Nominated Authority

World Trade Centre, New Delhi

Office of the nominated authority constituted under section 6 of the Coal Mines (Special Provisions) Act, 2015.

Allotment order under clause (c) of sub-rule (2) of rule 7 and sub-rule (1) of rule 13

In re:

Gourangdih ABC Coal Mine (the "mine") particulars of which is specified

in Annexure 1

Order no.:

F. No. 103/6/2016/NA

Date:

September 29, 2016

In favour of: West Bengal Mineral Development & Trading Corporation Limited incorporated in India under the Companies Act, 1956 with corporate identity number U14219WB1973SGC028707, whose registered office is at 13, Nellie Sengupta Sarani, 2nd Floor Kolkata, West-Bengal – 700087, India (the "Allottee")

For: Sale of Coal

WHEREAS, the nominated authority has, in accordance with the provisions the Coal Mines (Special Provisions) Act, 2015 (the "Act") and the Coal Mines (Special Provisions) Rules 2014 (the "rules") conducted the allotment of the relevant Schedule I coal mine;

AND WHEREAS the allottee is eligible to receive this allotment order with respect to the mine, including, inter-alia -

- (a) the coal bearing land acquired by the prior allottee and the lands, in or adjacent to the coal mines used for coal mining operations acquired by the prior allottee; and
- (b) any existing mine infrastructure as defined in clause (j) of sub-section (1) of section 3 of the Act;

AND WHEREAS the allottee has furnished a performance bank guarantee dated September 23, 2016 for an amount equal to INR 42,37,50,000.00 (Indian Rupees Forty Two Crore Thirty Seven Lakh and Fifty Thousand) issued by HDFC Bank in accordance with the allotment document and in accordance with the provisions of sub-section (6) and sub-section (6) and sub-section (6) are consistent to the Act;

AND WHEREAS the allottee has entered into an Allotment Agreement dated August 24, 2016 (as amended) with the nominated authority in accordance with the provisions of subrule (5) of rule 13.

NOW, THE NOMINATED AUTHORITY DOES ORDER:

- On and from September 29, 2016 ("allotment date") and in accordance with sub-section (4) of section 8 read with sub-section (12) section 8 of the Act, with respect to the mine, the following shall stand fully and absolutely transferred and vested in the allottee, namely: -
 - (a) all the rights, title and interest of the prior allottee in and over the land and mine infrastructure free from all encumbrances;
 - (b) entitlement to a mining lease to be granted by the State Government with the terms and conditions of the Allotment Agreement forming a part of it on making an application;
 - (c) all statutory licences, permits, permissions, approvals or consents as per rules, required to undertake coal mining operations in the mine, if already issued by the Central Government, to the prior allottee on the same terms and conditions as were applicable to the prior allottee, as listed in the Annexure 2;
 - (d) entitlement to any statutory licence, permit, permission, approval or consent required to undertake coal mining operations in the mine, if already issued by the Central Government, to the prior allottee on making an application on the same terms and conditions as were applicable to the prior allottee, as listed in the Annexure 3;
 - (e) entitlement to any statutory licence, permit, permission, approval or consent required to undertake coal mining operations in the mine, if already issued by the State Government, to the prior allottee on making an application on the same terms and conditions as were applicable to the prior allottee, as listed in the Annexure 4;
 - (f) rights appurtenant to the approved mining plan of the prior allottee;
 - (g) any subsisting contract in relation to coal mining operations, to which the prior allottee was a party and which is assumed, adopted and continued by the Allottee and listed in the Annexure 5 shall stand novated (by virtue of a deemed consent from the relevant party(ies)), in accordance with the provisions of sub-section (1) of section 11 of the Act in favour of the allottee for the residual term or residual performance of such contract;
- The Allottee may seek any change in the terms and conditions attached to such licence, permit, permission, approval or consent by making an application in accordance with applicable laws;

Hereinafter, the Allottee shall be entitled to take possession of the mine as specified in Annexure-1 without let or hindrance;

Allotment (Order fo	or Go	urangdih	ABC	Coal	Mine
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4. This allotment order is liable to be cancelled in accordance with the provisions of subrule (6) of rule 13.

(By the nominated autho

Annexures:

Annexure 1: Particulars of the mine

Part A - Description of the mine

Coal Mine	Gourangdib ABC
Latitude	23°48'30"N & 23°49'45"N
Longitude	86°57'45"E & 87°00'15"E
Coalfield	Raniganj
Villages	Shibdhawra, Banddhawra, Lalbandh, Panuria, Gourangdih, Kantapahari and Bhuiapara
District	Burdwan
State	West Bengal



Part B - Description of Land in relation to the mine

Type of Land: Freehold Land for Mining as per Mining Lease

Nil

Type of Land: Leasehold Land for Mining as per Mining Lease

Nature	Area (Hectares)
Government Land	-
Private Land	-
Forest Land	-



Part C - Description of Mine Infrastructure in relation to the mine

C1- Mine Infrastructure: Immovable Assets

Nil

C2- Mine Infrastructure: Land for Compensatory Afforestation

Type of Land: Freehold Land for Compensatory Afforestation

Nil

Type of Land: Leasehold Land for Compensatory Afforestation

Nature	Area (Hectares)
Government Land	-
Private Land	
Forest Land	-

C3- Mine Infrastructure: Resettlement and Rehabilitation Land

Type of Land: Resettlement and Rehabilitation Freehold Land

Nil

Type of Land: Resettlement and Rehabilitation Leasehold Land

Nature	Area (Hecta	res)
Government Land	-	
Private Land	<u>.</u>	
Forest Land	-	9



Allotment Order for Gourangdih ABC Coal Mine

Annexure 2: Particulars of statutory licences, permits, permissions, approvals or consents issued by the Central Government which are being transferred along with this Allotment order.

S. No	Statutory Clearance	Ministry/ Agency	Letter No.	Date
1.	Approval of Mining Plan and Mine Closure Plan	Ministry of Coal	No. 13016/77/2006- CA-I (Part)	28.06.2011



Allotment Order for Gourangdih ABC Coal Mine

Annexure 3: Particulars of statutory licences, permits, permissions, approvals or consents issued by the Central Government to be obtained on application by the Allottee.

Not Applicable



Allotment Order for Gourangdih ABC Coal Mine

Annexure 4: Particulars of statutory licences, permits, permissions, approvals or consents issued by the State Government to be obtained on application by the Allottee.

Not Applicable



Annexure 5: Particulars of the contracts adopted by the Allottee.

The Allottee does not intend to adopt and continue with any of the contracts of the Prior Allottee.



POPULATION AND LANDUSE OF 10 KM RADIUS STUDY AREA, CENSUS 2011 (Ha.) GOURANGDIH ABC COAL MINE. WEST BENGAL

		In 1.1	'				_		NGDIH ABO						<u> </u>	144 11 -1		144 4 -	
Town/	Town/village name		Total	Forest	Area under	Barren &	Permanent	Land	Culturable	Fallows	Current	Net Area	Total	Area	Canals	Wells/	Tanks/	Waterf	Other
village		ion	area	land	Non-	Un-	Pastures	Under	Waste	Land other	Fallows	Sown	Unirrigated	Irrigated		Tube	Lakes	all	Source
code					Agricultural	cultivable	and Other	Misc. Tree	Land	than Current			Land	by Source		Wells			1
					Uses	Land	Grazing Land	Crops etc.		Fallows									l
								1			- '				- '				-
District Sub Distt.	Barddhaman Salanpur																		
Sub Disit.	Salanpui																		
318464	Namokesia (P)	1910	217.32	1.35	44.47	0.00	0.00	0.00	9.35	0.00	0.00	162.15	116.82		0.00	0.00	2.57		
318471	Ramchandrapur	1111	146.82	0.00	2.72	0.00	0.00	0.00	13.50	0.00	0.00	130.60	90.60		0.00	2.10	24.65		
318473	Brindabani	761	86.80	0.00	6.00	0.00	0.00		2.40	0.00	0.00	78.40	56.00		0.00	0.00	22.40		
318474	Damdaha	952	136.88	4.00	51.95	0.00	0.00		0.40	0.00	0.00	80.53	0.00		0.00	0.00	80.53		
318475	Dhanguri	1318	235.92	0.00	32.32	0.00	0.00	0.00	3.60	0.00	0.00	200.00	160.00		0.00	0.00	40.00		
318476 318477	Pithakiari Maihladi	2782	205.22 105.91	0.00	98.56	0.00	0.00	0.00	20.10	0.00	0.00	86.56	61.56		0.00	10.00	15.00 20.00		
	Majhladi	518	105.91	0.00	20.00	0.00	0.00	0.00	5.91	0.00	0.00	80.00	60.00		0.00	0.00	20.00		
318478 318479	Muchidi Pratappur	1048 697	53.37	0.00	2.40 10.30	0.00	0.00 0.00	0.00	1.18 5.07	0.00 0.00	0.00	103.30 38.00	83.30 8.00		0.00	20.00	10.00		
318480	Alladi	2384	81.20	0.00	5.20	0.00	0.00		6.00	0.00	0.00	70.00	50.00		0.00	0.00	20.00		
318481	Kaladabar	1206	43.70	0.00	6.10	0.00	0.00	0.00	1.60	0.00	0.00	36.00	24.00		0.00	0.00	12.00		
318482	Sinsbera	749	71.82	0.00	23.49	0.00	0.00	0.00	0.00	0.00	0.00	48.33	48.33		0.00	0.00	0.00		
318483	Ramdi	1712	56.01	0.00	12.81	0.00	0.00	0.00	6.00	0.00	0.00	37.20	25.27		0.00	0.00	0.00		
318484	Dendua	2297	106.34	0.00	51.00	0.00	0.00		9.34	0.00	0.00	46.00	28.00		0.00	10.00	8.00		
318491	Salanpur	4739	379.96	0.00	73.83	0.00	0.00	0.00	75.90	0.00	0.00	230.23	199.63		0.00	0.00	30.60		
318492	Khudika	3630	345.06	0.00	56.81	0.00	0.00	0.00	54.16	0.00	0.00	234.09	107.63		0.00	0.00	126.46		
318494	Banbirdi	1312	55.27	0.00	38.50	0.00	0.00	0.00	0.00	0.00	0.00	16.77	16.77		0.00	0.00	0.00		
318495	Basudebpur	3098	161.60	0.00	102.90	0.00	0.00	0.00	58.70	0.00	0.00	0.00	0.00		0.00	0.00	0.00		
318496	Jemari	4321	151.00	0.00	151.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		
318497	Dhaminberia	261	103.65	0.00	17.89	0.00	0.00	0.00	5.20	0.00	0.00	80.56	25.56		0.00	10.00	20.00		
318498	Amjharia	271	75.40	0.39	5.20	0.00	0.00		8.44	0.00	0.00	61.37	16.37		0.00	10.00	10.00		
318499	Harishadi	2328	137.69	0.00	26.79	0.00	0.00	0.00	6.00	0.00	0.00	104.90	95.20		0.00	3.70	6.00		
318500	Rupnarayanpur	2242	76.84	0.00	48.78	0.00	0.00	0.00	5.50	0.00	0.00	22.56	0.00		0.00	22.56	0.00	0.00	
318501	Benagarya	3434	47.42	0.00	20.42	0.00	0.00		0.00	0.00	0.00	27.00	0.00		0.00	0.00	27.00		
318502	Kusumdanali	1095	92.94	0.00	14.26	0.00	0.00	0.00	5.50	0.00	0.00	73.18	24.68	48.50	0.00	4.00	40.25	0.00	4.25
318503	Ghiadoba	3388	158.74	0.36	16.48	0.00	0.00	0.00	2.25	0.00	0.00	139.65	66.00	73.65	5.26	57.37	11.02	0.00	0.00
318504	Uttar Rampur	1331	115.47	1.76	20.97	0.00	0.00	0.00	14.57	0.00	0.00	78.17	28.16	50.01	0.00	14.26	35.75	0.00	
318505	Jitpur	1532	275.81	0.00	35.91	0.00	0.00	0.00	1.11	0.00	0.00	238.79	176.48	62.31	23.63	37.56	1.12	0.00	0.00
318506	Kallya	703	86.71	0.00	14.21	0.00	0.00	0.00	3.50	0.00	0.00	69.00	66.50	2.50	0.00	0.00	2.50		
318507	Seakulberia	556	72.18	0.00	44.00	0.00	0.00	0.00	6.00	0.00	0.00	22.18	0.00		0.00	0.00	22.18		
318508	Kirtanshala	811	103.83	1.76	20.97	0.00	0.00		6.20	0.00	0.00	74.90	39.95		0.00	14.26	20.69		
318509	Kalisanko	1127	149.67	0.00	42.00	0.00	0.00	0.00	15.00	0.00	0.00	92.67	72.68		0.00	0.00	19.99		
318510	Chayenpur	783	83.42	0.00	28.00	0.00	0.00	0.00	6.02	0.00	0.00	49.40	46.50		0.00	0.00	2.90		
318511	Dharaspur	759	106.80	0.00	3.00	0.00	0.00	0.00	10.00	0.00	0.00	93.80	55.80		0.00	0.00	3.00		
318512	Keshardi	396	69.69	0.00	26.00	0.00	0.00		4.00	0.00	0.00	39.69	20.70		0.00	3.00	15.99		
318513	Paharpur	766	85.99	0.00	42.00	0.00	0.00	0.00	9.00	0.00	0.00	34.99	27.80		0.00	5.00	2.19		
318514	Manahara	972	186.66	0.00	41.00	0.00	0.00	0.00	11.00	0.00	0.00	134.66	130.26		0.00	0.00	4.40		
318515	Malladih	626	103.35	0.00	19.15	0.00	0.00	0.00	4.00	0.00	0.00	80.20	50.84		0.00	12.00	0.00		
318516	Kankurkunda	229	44.43	0.00	15.00	0.00	0.00	0.00	3.00	0.00	0.00	26.43	0.00		0.00	0.00	24.39		
318517	Achhra	2583	261.29	2.00	44.04	0.00	0.00	0.00	17.00	0.00	0.00	198.25	52.95		0.00	0.00	0.00		
318518	Dabar	2443	256.29	0.00	90.00	0.00	0.00	0.00	24.00	0.00	0.00	142.29	114.30		0.00	0.00	27.99		
318519	Alkusha	1420	126.56	0.00	48.06	0.00	0.00		2.02	0.00	0.00	76.48	44.46		0.00	0.00	32.02		
318520	Phulberya	1918	88.48	0.00	31.00	0.00	0.00	0.00	0.80	0.00	0.00	56.68	32.63		0.00	0.00	24.05		
318521	Sadhna	343	94.94	0.00	14.24	0.00	0.00	0.00	0.00	0.00	0.00	80.70	0.00		0.00	0.00	80.70		
318522	Lohat	930	88.55	0.00	45.73	0.00	0.00		2.02	0.00	0.00	40.80	38.78		0.00	0.00	2.02		
318523 318524	Radhaballavpur Shyamdi	2422 3265	60.33 162.99	0.00	43.30 122.89	0.00	0.00 0.00	0.00	2.83 4.29	0.00 0.00	0.00	14.20 35.81	14.20 0.00		0.00	0.00	0.00		
318524	Pahargara	3265 966	164.09	0.00	79.99	0.00	0.00	0.00	4.29 32.02	0.00	0.00	52.08			0.00	0.00	0.00		
310020	ranaigaia	900	104.09	0.00	79.99	0.00	0.00	0.00	32.02	0.00	0.00	5∠.08	0.00	5∠.08	0.00	0.00	0.00	0.00	5∠.08

POPULATION AND LANDUSE OF 10 KM RADIUS STUDY AREA, CENSUS 2011 (Ha.) GOURANGDIH ABC COAL MINE, WEST BENGAL

	I =									COAL MINE.									
Town/ village code	Town/village name	Populat ion	Total area	Forest land	Area under Non- Agricultural	Barren & Un- cultivable	Permanent Pastures and Other	Land Under Misc. Tree	Culturable Waste Land	Fallows Land other than Current	Current Fallows	Net Area Sown	Total Unirrigated Land	Area Irrigated by Source	Canals	Wells/ Tube Wells	Tanks/ Lakes	Waterf all	Other Source
					Uses	Land	Grazing Land	Crops etc.		Fallows									
318526	Mohanpur	181	109.65	0.00	8.00	0.00	0.00	0.00	11.33	0.00	0.00	90.32	58.31		0.00	0.00	32.01		
318527	Parbbatpur	989	124.52	0.00		0.00	0.00	0.00	17.40				0.00		0.00	0.00	93.51		
318528	Bolkunda	1351	320.33	0.00		0.00	0.00	0.00	4.86				130.40			0.00	60.00		
318530	Madhaichak	521	83.12	0.00		0.00	0.00		4.45							5.00			
318531	Patal	908	211.89	0.00		0.00	0.00	0.00	0.00	0.00			0.00			0.00	204.89		
318532	Mahishmura	941	143.53	0.00		0.00	0.00	0.00	39.78				55.00			0.00	21.07		
318534	Miliakhola	1532	125.33	12.53		0.00	0.00		22.53							0.00	56.46		
318537	Ethora	4547	515.54	0.00		0.00	0.00	0.00	10.12							0.00	128.92		
318538	Angaria	576	92.98	0.00		0.00	0.00	0.00	22.78	0.00	0.00	62.20	32.20	30.00	0.00	4.00	26.00	0.00	0.00
801670	Kulti (M)	31381	960.00	-	960.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
318539	Chittaranjan (CT)	39098	1965.00	-	1965.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318540	Hindusthan Cables To	22599	390.00	-	390.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Sub total	181069	11269.18	24.15	5479.28	0.00	0.00	0.00	617.73	0.00	0.00	5148.02	2958.08	2189.94	28.89	244.81	1506.46	0.00	409.78
Sub Distt.	Barabani																		
318541	Parulbaria	1897	380.51	0.00		0.00	0.00		0.00	0.00			60.00			0.00	50.00		
318542	Roshna	937	436.43	0.00	5.43	0.00	0.00	0.00	133.78	0.00	0.00	297.22	118.78	178.44	0.00	0.00	50.00	0.00	128.44
318543	Daskiari	3644	564.19	7.42	10.00	0.00	0.00	0.00	0.00	0.00	0.00	546.77	210.92	335.85	0.00	0.00	116.00		
318544	Kanskuli	1159	324.98	40.68		0.00	0.00	0.00	0.00	0.00			91.32			0.00	0.00		
318545	Chhotkara	2118	344.14	10.91	40.93	0.00	0.00	0.00	47.52				226.67			0.00	18.11		
318546	Khaerbad	1474	249.24	0.00		0.00	0.00	0.00	0.00	0.00			48.00			0.00	49.00		
318547	Baradang	1746	318.39	20.71		0.00	0.00	0.00	0.00				10.29			0.00	62.00		
318548	Alipur	906	227.52	0.00		0.00	0.00	0.00	0.00	0.00			21.95			0.00	195.93		
318549	Kantapahari	1864	153.86	0.00		0.00	0.00	0.00	4.00							0.00	6.00		
318550	Aliganja	2130	337.92	67.00		0.00	0.00	0.00	0.00	0.00			202.25			0.00	48.85		
318551	Hosenpur	1143	173.40	8.15		0.00	0.00	0.00	0.00				43.00			0.00	60.04		
318552	Putulia	560	297.44	0.00		0.00	0.00	0.00	25.00	0.00			202.94			15.40	4.68		
318553	Gourbazar	530	134.75	0.00		0.00	0.00		0.00	0.00			27.00			0.00	47.53		
318554	Amulia	178	141.54	0.00		0.00	0.00		10.00	0.00			24.38			0.00	7.00		
318555	Rashunpur	1531	416.92	0.00		0.00	0.00		13.00	0.00						0.00	7.00		
318556	Madanpur	3687	482.70	0.00		0.00	0.00	0.00	53.63				237.61			0.00	0.00		
318557	Sarshatali	1039	245.64	61.93		0.00	0.00	0.00	0.00	0.00			110.71			0.00	14.00		
318558	Kapishtha	1932	283.63	0.00		0.00	0.00	0.00	8.00	0.00			90.73			0.00	15.00		
318559	Jamgram	7614	1623.60	0.00		0.00	0.00	0.00	10.00	0.00			1290.00			0.00	10.00		
318560	Puchra	3814 1724	811.87 46.65	0.00		0.00	0.00		500.79 0.00	0.00 0.00			243.41 8.18		0.00	0.00	0.40 12.00		
318561	Itapora						0.00	0.00					1						
318562 318563	Bila Amdiha	676 1553	148.19 172.97	0.27 0.00		0.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00			88.39			0.00	54.53 16.92		
318564	Amdina Baliapur	2332	293.09	2.00		0.00	0.00	0.00	0.00				121.76 149.40			0.00	60.00		
318565	Amlala	1193	195.44	0.00		0.00	0.00	0.00	0.00				132.07			0.00	33.20		
318566	Raniganja	1597	217.31	0.00		0.00	0.00	0.00	0.00				1			0.00	55.19		
318567	Raghunath Chak	559	104.26	0.00		0.00	0.00	0.00	0.00				1			0.00	11.50		
010001	ragilulialii Cliak	559	104.20	0.00	25.24	0.00	0.00	0.00	0.00	0.00	0.00	01.02	1 00.02	13.00	0.00	0.00	11.30	0.00	3.30

POPULATION AND LANDUSE OF 10 KM RADIUS STUDY AREA, CENSUS 2011 (Ha.) GOURANGDIH ABC COAL MINE, WEST BENGAL

	I =								NGDIH ABO										
Town/	Town/village name		Total	Forest	Area under	Barren &	Permanent	Land	Culturable	Fallows	Current	Net Area	Total	Area	Canals	Wells/	Tanks/	Waterf	Other
village		ion	area	land	Non-	Un-	Pastures	Under	Waste	Land other	Fallows	Sown	Unirrigated	Irrigated		Tube	Lakes	all	Source
code					Agricultural	cultivable	and Other	Misc. Tree	Land	than Current			Land	by Source		Wells			ĺ
					Uses	Land	Grazing Land	Crops etc.		Fallows									1
							Lanu												<u> </u>
318568	Chinchuria	2696	332.11	0.00	49.73	0.00	0.00	0.00	0.00	0.00	0.00	282.38	160.38	122.00	0.00	40.00	50.00	0.00	32.00
318569	Bijari	985	164.09	0.00	19.39	0.00	0.00	0.00	0.00	0.00	0.00	144.70	117.61	27.09	0.00	0.00	17.09	0.00	10.00
318570	Paniphala	320	116.65	0.00	25.17	0.00	0.00	0.00	47.58	0.00	0.00	43.90	41.72	2.18	0.00	0.00	2.18	0.00	0.00
318571	Karrabaid	666	85.35	0.00	32.59	0.00	0.00	0.00	0.00		0.00				0.00	0.00	0.00		
318572	Napara	627	233.54	0.89	96.38	0.00	0.00	0.00	4.00	0.00	0.00	132.27	132.27	0.00	0.00	0.00	0.00	0.00	0.00
318573	Jayramdanga	786	104.63	0.00	16.03	0.00	0.00	0.00	22.00	0.00	0.00		25.60		0.00	0.00	41.00	0.00	0.00
318574	Bhaskajuri	1670	116.47	0.00	5.38	0.00	0.00	0.00	8.99	0.00	0.00	102.10	0.00	102.10	0.00	0.00	0.00	0.00	102.10
318575	Barabani	2330	294.70	1.55			0.00		83.78				181.43				0.00		
318576	Kelejora	5533	677.39	0.00		0.00	0.00	0.00	10.00	0.00			343.13		0.00		6.00		
318577	Khoshnagar	1737	115.61	0.00		0.00	0.00		36.00				74.77				0.40		
318578	Khamra	91	117.84	0.00		0.00	0.00	0.00	0.00	0.00			11.00		0.00		30.00		
318579	Gopalbaid	510	81.03	0.00			0.00		0.00				43.38				10.00		
318580	Shyamsundarpur	1444	163.19	0.00			0.00		0.00								11.63		
318581	Taldanga (B)	768	184.68	0.00			0.00		0.00				1		0.00		46.36		
318582	Lalganja (B)	2667	216.91	0.00			0.00		0.00								40.00		
318583	Janarddan Sayer (B)	216	82.96	0.81		0.00	0.00		2.00						0.00		16.00		
318584	Kanyapur (B)	1593	198.51	0.05			0.00		1.00				118.37				4.00		
318585	Nuni (B)	2557	296.91	0.00		0.00	0.00	0.00	0.00				155.37		0.00		30.00		
318586	Monohar Bahal (B)	2522	252.44	0.00			0.00		20.00								25.00		
	` '		520.71	0.00	520.71	0.00	0.00	0.00	20.00	0.00	0.00	100.30	110.33	50.00	0.00	0.00	25.00	0.00	25.00
318587	Panuria (CT)	8399		-		-	-	-	-	-	-		1 -	-	-	-	-	-	1
318588	Domohani (CT)	12480	637.89	-			-	-	-	-	-		1 -	-	-	-	-	-	1
318589	Bhanowara (CT)	8855	411.00	-		-	-	-	-	-	-		1 -	-	-	-	-	-	1
318590	Majiara (CT)	5444	718.83	-		-	-	-	-	-	-	•	-	-	-	-	-	-	1
318591	Pangachhiya (CT)	9165	122.00	-	122.00	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Sub total	123598	15372.02	222.37	4709.08	0.00	0.00	0.00	1041.07	0.00	0.00	9399.50	5961.40	3438.10	0.00	62.40	1334.54	0.00	2041.16
Sub Distt.	Jamuria																		
318593	Andharia	1145	304.33	6.56	207.49	0.00	0.00	0.00	0.03	0.00	0.00	90.25	48.97	41.28	0.00	0.00	41.28	0.00	0.00
318594		260	188.58	0.00		0.00	0.00		0.03								41.28		
	Baguli	354																	
318595	Madhabpur		93.32	0.00			0.00	0.00	13.76				18.21				14.16		
318596	Rakhakura	1453	233.91	1.07		0.00	0.00		2.02				110.88				65.96		
318597	Chichurbil	1663	487.65	0.00			0.00		20.45				67.58		0.00		72.44		
318598	Churulia	8173	1042.07	0.00		0.00	0.00	0.00	4.05				538.24		0.00		221.77		
318599	Madhudanga	1209	98.34	0.00		0.00	0.00	0.00	2.12				33.01		0.00		38.01		
318600	Madantor	2813	617.96	0.00		0.00	0.00	0.00	10.18				264.26		0.00		13.36		
318601	Laikapur	816	203.56	47.32	9.21	0.00	0.00	0.00	0.00	0.00	0.00	147.03	136.02	11.01	0.00	0.00	11.01	0.00	0.00
	Sub total	17886	3269.72	54.95	1376.75	0.00	0.00	0.00	52.61	0.00	0.00	1785.41	1266.14	519.27	0.00	0.00	519.27	0.00	0.00
District	Jamtara																		
Sub Distt.	Jamtara																		
372681	Sapdiha	863	262.93	0.00	105.85	0.00	20.51	2.35	134.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
372682	Kusbedia	4111	283.13	0.00			24.05	3.36	170.34	2.78			0.00				0.00		
372683	Bagjuri	2630	278.01	0.00		0.00	14.13	0.78	198.91	0.00			0.00				0.00		
	Bhaga	929	222.21	0.00			13.17	110.28	0.00								0.00		
801793	Mihijam (NP)	40463	1094.00	-	1094.00	-	-	-	-	-	-	-			-	-	-	-	
	Out total	40000	0440.00		4 40= 40		=1.55	410 =-	FAA :-										
	Sub total	48996	2140.28	0.00	1437.10	4.22	71.86	116.77	503.47	2.78	3.57	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00

POPULATION AND LANDUSE OF 10 KM RADIUS STUDY AREA, CENSUS 2011 (Ha.) GOURANGDIH ABÇ COAL MINE, WEST BENGAL

Town/	Taum/sillaga nama	Donulati	Total	Forest	Area under	Barren &	Darmanant		NGDIH ABO	COAL MINE.	Current	NGAL	Total	Area	Canals	Wells/	Tanks/	Waterf	Other
	Town/village name			land	Area under Non-		Permanent	Land Under	Culturable Waste	Fallows	Current Fallows	Net Area Sown	l		Canais				
village		ion	area	ianu		Un-	Pastures			Land other	railows	Sowii	Unirrigated	Irrigated		Tube	Lakes	all	Source
code					Agricultural	cultivable	and Other	Misc. Tree	Land	than Current			Land	by Source		Wells			1
					Uses	Land	Grazing Land	Crops etc.		Fallows									
	1													l					
Sub Distt.	Nala																		
372778	Jabardaha	1355	565.00	0.00		0.00				0.00		384.17	286.42			0.00			
372779	Salkunda	731	278.00	0.00		0.00			24.53	0.00		228.70	228.70			0.00			
372784	Kusumdaha	485	215.00	0.00		0.00			8.19	0.00		195.85				0.00			
372785	Banberiya	448	137.00	0.00		0.00				0.00		109.89	1			0.00			
372786	Panchmohali	501	187.00	0.00		0.00			14.62	0.00		157.30	154.43			0.00			
372787	Badurmara	472	129.55	0.00		0.00				0.00		111.53	100.39			0.00			
372788	Kharberiya	33	86.00	0.00		0.00				0.00		78.26	78.26			0.00			
372789	Bandlako	277 340	157.00	0.00		0.00				0.00		133.83	133.83			0.00			
372790 372791	Agaiya Bankasemal	41	162.00 38.00	0.00		0.00			0.00 3.72	14.71 0.00		138.83 30.54	138.83 30.54			0.00			
372791		575																	
372792	Hijaljuri	149	184.00 39.00	0.00					14.71 5.73	0.00 0.00		161.93 30.82	161.93 30.82			0.00			
372794	Shibdangal Khola Khamar	112	78.00	0.00						0.00		70.65				0.00			
372794	Phutberiya	857	173.00	0.00						0.00		141.06				0.00			
372796	Kolkunda	214	78.00	0.00		0.00			7.37	0.00		67.62	1			0.00			
372798	Ghat Sagariya	604	178.00	0.00					18.34	0.00		154.94	154.94			0.00			
372799	Kharubazar	614	130.00	0.00					14.29	0.00		111.42	111.42			0.00			
372800	Tarra	806	175.00	0.00						0.00		157.20	151.91			0.00			
372801	Maralai	2028	598.00	0.00						0.00		498.51	497.09			0.81			
372802	Mohanpur	1346	273.00	0.00					17.15	0.00		240.13	234.42			2.43			
372803	Rangasol	1307	672.00	267.23						0.00		363.25	363.25			0.00			
372832	Saluka	1262	374.00	0.00		0.00			13.17	0.00		339.77	339.77			0.00			
372833	Jaspur	1033	282.00	0.00		0.00				0.00		260.58	259.98			0.20			
372834	Nischintapur	764	73.00	0.00	27.09	0.00	0.00	0.00	10.12	0.00	0.00	35.79	19.22	16.57	2.07	9.13	3.29	2.08	0.00
372835	Haripur	535	221.00	0.00	33.38	0.00	0.00	0.00	75.99	0.00	0.00	111.63	110.78	0.85	0.00	0.00	0.45	0.00	0.40
372895	Jadunandanpur	91	48.00	0.00	5.27	0.00	0.00	0.00	8.14	0.00	0.00	34.59	25.94	8.65	0.00	0.00	0.40	0.00	8.25
372896	Mukundadi	289	112.00	0.00	16.32	0.00	0.00	0.00	21.10	0.00	0.00	74.58	74.58	0.00	0.00	0.00	0.00	0.00	0.00
372897	Majhladi	520	110.00	0.00	5.88	0.00	0.00	0.00	41.43	0.00	0.00	62.69	62.69	0.00	0.00	0.00	0.00	0.00	0.00
372898	Kenduyatanr	346	104.00	0.00		0.00	0.00	0.00		0.00		91.33	220.92			0.00		0.00	
372899	Kenduyatanr Chhit	14	9.70	0.00		0.00			4.90	0.00		0.00	10.32			0.00			
372900	Nala	2202	233.00	0.00						0.00		220.92				0.00			
372901	Nalhati	221	94.00	0.00					17.35	0.00		60.36				0.00			
372902	Dalabar	1907	198.00	0.00		0.00				0.00		154.70	143.07			11.63			
372903	Suriyapani	447	157.00	0.00		0.00				0.00		107.13				0.00			
372905	Jambediya	257	141.00	0.00		0.00			4.59	0.00		121.95				0.00			
372906	Payrakhop	191	47.00	0.00		0.00				0.00		37.18	37.18			0.00			
372907	Amlajora	462	108.00	0.00		0.00			12.86	0.00		87.43	87.43			0.00			
372908	Bhaljuriya	504	139.00	0.00		0.00				0.00		102.53	102.53			0.00			
372910	Kaliapathar	422	153.00	17.47						0.00		57.83	57.83			0.00			
372911	Kamubediya	210	111.00	0.00		0.00			21.50	0.00		86.54	86.54			0.00			
372912	Baratanr	245	91.00	0.00						0.00		66.54	66.54			0.00			
372913	Raghunathpur	72	45.00	0.00		0.00				0.00		33.87	33.87			0.00			
372914 372915	Hidaljori Nutandi	326	102.00 56.00	0.00						0.00		66.10				0.00			
372915 372916	Nutandi Chital Kanali	244 364	72.00	0.00					10.08 3.63	0.00 6.00		44.43	44.43			0.00			
372916	Ranidi	158	83.00	0.00		0.00			16.32	0.00		59.62 64.35	59.62 64.35			0.00			
372917	Tilabani	651	266.00	4.80					101.13	0.00		140.48				0.00			
372910	Ank Pokhariya	364	102.00	0.00						0.00		74.44				0.00			
012010	AIIN F UNITALIYA	504	102.00	0.00	0.12	0.00	0.00	0.00	∠ 1.44	0.00	0.00	14.44	1 /4.44	0.00	0.00	0.00	0.00	0.00	0.0

POPULATION AND LANDUSE OF 10 KM RADIUS STUDY AREA, CENSUS 2011 (Ha.) GOURANGDIH ABC COAL MINE, WEST BENGAL

Town'	Town/village name	Donulet	Total	Forest	Aron under	Parran o I	Dormone of			COAL MINE.			Total	Aron	Canalal	Wells!	Tanks/	Motors	Other
Town/	Town/village name		Total	Forest	Area under	Barren &	Permanent	Land	Culturable	Fallows	Current	Net Area	Total	Area	Canals	Wells/		Waterf	Other
village	,	ion	area	land	Non-	Un-	Pastures	Under	Waste	Land other	Fallows	Sown	Unirrigated	Irrigated		Tube	Lakes	all	Source
code					_	cultivable	and Other	Misc. Tree	Land	than Current			Land	by Source		Wells			
					Uses	Land	Grazing	Crops etc.		Fallows									l
							Land												
372920	Sagjuriya	992	271.00	0.00	60.60	0.00	0.00	0.00	14.99	0.00	0.00	195.41	195.41	0.00	0.00	0.00	0.00	0.00	0.00
372921	Pakbara	1164	367.00	0.00	125.98	0.00	0.00	0.00	0.00	0.00			241.02	0.00			0.00	0.00	
372922	Tarachutia	808	224.00	0.00	16.08	0.00	0.00	0.00	23.72	0.00			184.20	0.00			0.00	0.00	
372923	Murgabani	815	193.00	7.42	9.24	0.00	0.00	0.00	49.02	0.00			127.32				0.00	0.00	
372924	Mathura	284	104.00	2.34	2.50	0.00	0.00	0.00	5.53	0.00			93.63	0.00			0.00	0.00	
372925	Juridangal	761	215.00	0.00	23.91	0.00	0.00	0.00	46.28	0.00			144.81	0.00			0.00	0.00	
372926	Sendur Khaniya	683	151.00	0.00	10.61	0.00	0.00	0.00	17.26	0.00			123.13	0.00			0.00	0.00	
372927	Radhaballavpur	407	66.00	0.00	11.40	0.00	0.00	0.00	7.39	0.00			47.21	0.00			0.00	0.00	
372928	Debalkunda	670	169.00	0.00	0.00	0.00	0.00	14.43	0.00	24.74			129.83	0.00			0.00	0.00	
372929	Mahisamura	925	216.00	0.00	11.93	0.00	0.00	0.00	34.74	0.00			169.33	0.00			0.00	0.00	
372930	Patuyasol	410	160.00	0.00	64.45	0.00	0.00	0.00	12.03	0.00			83.52				0.00	0.00	
372931	Gardoara	270	132.00	0.00	22.30	0.00	0.00	0.00	15.81	0.00			93.89				0.00	0.00	
372932	Baghatana	156	95.00	39.91	0.89	0.00	0.00		8.32	0.00			45.88				0.00	0.00	
372933	Siyaljuri	168	64.00	6.42	4.93	0.00	0.00		9.67	0.00			42.98				0.00	0.00	
372934	Bankhet	571	235.00	4.03	38.14	0.00	0.00		51.00	0.00			141.83				0.00	0.00	
372935	Kurthibhita	67	62.00	2.23	7.37	0.00	0.00	0.00	19.08	0.00			33.32	0.00			0.00	0.00	
372936	Patharghata	770	228.00	0.00	43.26	0.00	0.00	0.00	33.76	0.00			150.98				0.00	0.00	
372937	Baghakuri	528	217.00	58.16	15.24	0.00	0.00	0.00	10.17	0.00			133.43	0.00			0.00	0.00	
372958	Raghunath Chak	583	175.00	0.00	0.00	23.54	0.00		0.00	25.35			126.11	0.00			0.00	0.00	
372959	Kenduya	607	330.00	0.00	2.37	0.00	0.00	0.00	14.54	0.00			313.09	0.00			0.00	0.00	
372962	Pachatali	69	42.00	0.00	1.50	0.00	0.00	0.00	4.43	0.00			28.14	10.93			0.00	0.00	
372963	Mathurakuri	200	55.00	0.00	7.35	0.00	0.00	0.00	1.93	0.00			45.72				0.00	0.00	
372964	Baralia	243	127.00	0.00	6.57	0.00	0.00	0.00	10.27	0.00			110.16				0.00	0.00	
372965	Jambedia	645	173.00	0.00	2.12	0.00	0.00	0.00	3.14	0.00			167.74	0.00			0.00	0.00	
372966	Kumrachak	93	43.00	0.00	2.12	0.00	0.00	0.00	3.14	0.00			37.74	0.00			0.00	0.00	
372967	Sarbediya	669	205.00	0.00	44.11	0.00	0.00	0.00	35.52	0.00			125.37	0.00			0.00	0.00	
372968	Baghchhera	437	177.00	0.00	44.11	0.00	0.00	0.00	13.14	0.00			159.64	0.00			0.00	0.00	
372969	Kesiya	161	111.00	0.00	5.12	0.00	0.00	0.00	13.14	0.00			92.63	0.00			0.00	0.00	
372970	Bhelaberiya	373	127.00	33.74	2.29	0.00	0.00	0.00	9.25	0.00			81.72				0.00	0.00	
372970	Malipahari	968	297.00	2.07	0.84	0.00	0.00	0.00	54.93	0.00			239.16	0.00			0.00	0.00	
372971	Pariharpur	516	172.00	0.00	12.46	0.00	0.00	0.00	9.79	0.00			145.10	0.00			0.00	0.00	
372972	Chhota Rampur	123	117.00	8.30	0.00	0.00	0.00	36.91	0.00	0.00			70.17	1.62			0.00	1.62	
372973	Kharimali Rampur	332	117.00	16.47	37.27	0.00	0.00	0.00	14.31	0.00				0.00			0.00	0.00	
372974	Chhotalia	332 318	149.00	36.43	8.54	0.00	0.00	0.00	12.76	0.00			91.27	0.00			0.00	0.00	
372975	Palasthali	366	100.00		0.00	3.85	0.00	0.00	43.42	0.00			1						
				2.48									50.25				0.00	0.00	
372977	Kasta	1108	191.00	6.58	16.54	149.49	0.00	0.00	8.64	0.00			0.00				10.13	0.00	
372983	Bara Rampur	762	266.00	0.00	31.68	0.00	0.00	0.00	35.35	0.00			198.97	0.00			0.00	0.00	
372984	Sultanpur	633	74.00	0.00	10.92	0.00	0.00	0.00	11.70	0.00			51.38				0.00	0.00	
372985	Chichurbil	545	90.00	0.00	12.16	0.00	0.00		15.13	0.00			62.71	0.00			0.00	0.00	
372986	Barkurichak	276	83.00	0.00	4.05	0.00	0.00	0.00	7.45	0.00	0.00	71.50	71.50	0.00	0.00	0.00	0.00	0.00	0.00
	Sub total	47872	14454.25	516.08	1279.72	176.88	0.00	51.34	1671.75	70.80	5.35	5 10682.33	10604.46	185.16	99.82	24.20	21.45	9.81	29.88
—	GRAND TOTAL		46505.45	817.55	14281.93	181.10	71.86	168.11	3886.63			2 27015.77	20790.08				3381.72		2480.82
	%		100.00	1.76	30.71	0.39	0.15		8.36								53.40	0.15	

LIST OF FLORA IN CORE ZONE OF GOURANGDIH ABC COAL MINE OF M/S WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED (WBMDTC LTD.), DIST. PASCHIM BARDHAMAN, WEST BENGAL

SI. No.	Botanical Name	Common Name	Family
	Trees		
1.	Acacia auriculiformis	Sonajhuri (Akashmoni)	Fabaceae
2.	Ailanthus excelsa	Ailanthus	Simaroubaceae
3.	Aegle marmelos	Bel	Myrtaceae
4.	Alstonia Scholaris	Chatim	Apocynaceae
5.	Anthocephalus cadamba (Roxb.)	Kadam	Rubiaceae
6.	Artocarpus heterophyllus	Kathal	Moraceae
7.	Azadirachta indica	Neem	Meliaceae
8.	Borassus flabellifer	Tad (Tal)	Arecaceae
9.	Butea monosperma	Palas	Fabaceae
10.	Calotropis gigantea	akaon	Apocynaceae
11.	Cassia Fistula	Bahara, Amaltas	Ceasalpiniaceae
12.	Dalbergia sissoo	Sisam	Fabaceae
13.	Diospyros melanoxylon	Tendu	Ebenaceae
14.	Eucalyptus globulus	Safeda	Myrtaceae
15.	Ficus religiosa	Pipal (Avastha)	Moraceae
16.	Ficus racemosa	Gular (Dumumr)	Moraceae
17.	Ficus bangalensis	Bargad	Moraceae
18.	Gmelin Arborea	Gambhar	Verbenaceae
19.	Madhuca longifolia	Mohua (Mehul)	Sapotaceae
20.	Mangifera indica	Mango	Anacardiaceae
21.	Morniga aneiphera	Sahjan	Moringaceae
22.	Peltoform Pterocarpum	Radhachura	Caesalpiniaceae
23.	Prasophis sinereria	Sanalu	Fabaceae
24.	Pisidium guava	Guava	Myrtaceae
25.	Phoenix dactylifera	khajoor	Arecaceae
26.	Ricinus communis	Castor	Euphorbiaceae
27.	Syzygium cumini	Jamun	Myrtaceae
28.	Shorea robusta	Sal	Dipterocarpaceae
29.	Spondias Axillaris Roxb	Amra	Anacardiaceae
30.	Tamarindus indica	Imli/tentul	Caesalpiniaceae
31.	Terminalia arjuna	Arjun	Combretaceae
32.	Terminalia bellirica	Bahera	Combretaceae
33.	Terminalia Chebula	Haritaki	Combretaceae
34.	Tectona grandis	Teek (sagwan)	Verbenaceae
35.	Zizyphus mauritiana	Ber	Rhamnaceae
36.	Careya arborea	Akhara (Kalikatbhi)	Barringtoniaceae
37.	Terminalia tomentosa	Asan	Combretaceae
38.	Cassia fistula	Bandorlathi (Amaltas)	Ceasalpiniaceae
39.	Fagus sylvatica	Buche	Fagaceae
40.	Acacia Acuminata	Jam	Fabaceae
41.	Carissa carandas	Karancha	Apocynaceae
42.	Schleichera oleosa	Kosai (Kusum)	Sapindaceae
43.	Holarrhena antidysenterica	Kurchi/Kuruchi	Apocynaceae
	Shrubs & Herbs		

SI. No.	Botanical Name	Common Name	Family	
1.	Bambusa arundinacea	Bamboo	Poaceae	
2.	Carissa carandas	Karancha	Apocynaceae	
3.	Ocimum sanctum	Tulsi	Lamiaceae	
	Grasses and Sedges			
1.	Cynadon dactylon	Doob	Poaceae	
2.	Apluda mutica	Banjura grass	Poaceae	

In addition to the above, trees identified in Part-II of Forest Dereservation Proposal of Gourangdih ABC Coal Mine (filled by Deputy Conservator of Forest) are (44) Khel Kadam, (45) Kanchmala, (46) Akar, (47) Chakalta/Chakalda, (48) Charra, (49) Dha, (50) Gokul, (51) Holdu, (52) Karam, (53) Kend, (54) Murga, (55) Nuniafal, (56) Minjiri, (57) pairachoki, (58) Pakur, (59) Piyal, (60) Sida, (61) Shyamal, (62) Shwara and (63) Vela (Local names available only).

LIST OF FLORA IN THE STUDY AREA OF GOURANGDIH ABC COAL MINE OF M/S WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED (WBMDTC LTD.). DIST. PASCHIM BARDHAMAN. WEST BENGAL

SI. No.	Botanical Name	Common Name	Family
	Trees		
1.	Acacia nilotica	Babul	Mimosaceae
2.	Acacia auriculiformis	Sonajhuri (Akashmoni)	Fabaceae
3.	Acacia catechu	Khair	Mimosaceae
4.	Aegle marmelos	Bel	Myrtaceae
5.	Albizzia lebbeck	Siris	Mimosaceae
6.	Artocarpus heterophyllus	Kathal	Moraceae
7.	Anthoosphalus cadamba	Kadam	Rubiaceae
8.	Azadirachta indica	Neem	Meliaceae
9.	Azedarachta melia	Bakneem	Meliaceae
10.	Bombax ceiba	Semar (Silk Cotton)	Bombacaceae
11.	Butea monosperma	Palas	Fabaceae
12.	Borassus flabellifer	Tad (Tal)	Arecaceae
13.	Carica papaya	Papaya	Caricaceae
14.	Dalbergia sissoo	Sisam	Fabaceae
15.	Delonix regia	Gulmohar	Fabaceae
16.	Eucalyptus	Safeda	Myrtaceae
17.	Emblica officinalis	Amla	Euphorbiaceae
18.	Ficus bangalensis	Bargad	Moraceae
19.	Ficus religiosa	Pipal (Avastha)	Moraceae
20.	Ficus racemosa	Gular (Dumur)	Moraceae
21.	Genelina arborea	Gamhar	Lamiaceae
22.	Lagerstroemia parviflora	Sidha	Lythraceae
23.	Mangifera indica	Mango	Anacardiaceae
24.	Morniga aneiphera	Sahjan	Moringaceae
25.	Musa paradisiaca	Kela	Musaceae
26.	Madhuca longifolia	Mohua	Sapotaceae
27.	Pisidium guava	Guava	Myrtaceae
28.	Phoenix dactylifera	Khajoor/ date palm	Arecaceae

SI. No.	Botanical Name	Common Name	Family
29.	Phoenix acaulis	Bankhajoor	Arecaceae
30.	Pongamia pinnata	Karanj	Fabaceae
31.	Saraca indica	Ashoka	Caesalpiniaceae
32.	Shorea robusta	Sal	Dipterocarpaceae
33.	Schlechera oleosa	Kusum	Sapindaceae
34.	Syzygium cumini	Jamun	Myrtaceae
35.	Tamarindus indica	Imli/ Tentul	Caesalpiniaceae
36.	Terminalia tomentosa	Asan	Combretaceae
37.	Terminalia arjuna	Arjun	Combretaceae
38.	Tectona grandis	Teek	Verbenaceae
39.	Zizyphus mauritiana	Ber	Rhamnaceae
40.	Ailanthus excelsa	Ailanthus	Simaroubaceae
41.	Alstonia Scholaris	Chatim	Apocynaceae
42.	Anthocephalus cadamba	Khel Kadam	Rubiaceae
43.	Calotropis gigantea	akaon	Apocynaceae
44.	Cassia Fistula	Bahara, Amaltas	Ceasalpiniaceae
45.	Diospyros melanoxylon	Tendu	Ebenaceae
46.	Peltoform Pterocarpum	Radhachura	Caesalpiniaceae
47.	Prasophis sinereria	Sonalu	Fabaceae
48.	Ricinus communis	Castor	Euphorbiaceae
49.	Spondias Axillaris Roxb	Amra	Anacardiaceae
50.	Terminalia bellirica	Bahera	Combretaceae
51.	Terminalia Chebula	Haritaki	Combretaceae
52.	Careya arborea	Akhara (Kalikatbhi)	Barringtoniaceae
53.	Terminalia tomentosa	Asan	Combretaceae
54.	Fagus sylvatica	Buche	Fagaceae
55.	Acacia Acuminata	Jam	Fabaceae
56.	Holarrhena antidysenterica	Kurchi/Kuruchi	Apocynaceae
	Shrubs & Herbs		
1.	Dhatura metal	Dhatura	Solanaceae
2.	Carissa carandas	Karancha	Apocynaceae
3.	Dendrocalamus strictus	Bamboo	Poaceae
4.	Millusa tomentosa	Kari	Annonaceae
5.	Ocimum basilicum	Ban tulsi	Lamiaceae
6.	Ocimum sanctum	Tulsi	Lamiaceae
	Grasses		
1.	Cynadon dactylon	Doob	Poaceae
2.	Apluda mutica	Banjura grass	Poaceae

In addition to the above, trees identified in Part-II of Forest Dereservation Proposal of Gourangdih ABC Coal Mine (filled by Deputy Conservator of Forest) are (57) Khel Kadam, (58) Kanchmala, (59) Akar, (60) Chakalta/Chakalda, (61) Charra, (62) Dha, (63) Gokul, (64) Holdu, (65) Karam, (66) Kend, (67) Murga, (68) Nuniafal, (69) Minjiri, (70) pairachoki, (71) Pakur, (72) Piyal, (73) Sida, (74) Shyamal, (75) Shwara and (76) Vela (Local names available only).

[3]

LIST OF FUNA IN CORE ZONE OF GOURANGDIH ABC COAL MINE OF M/S WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED, DIST. PASCHIM BARDHAMAN, WEST BENGAL

SI. No.	Zoological Name	Common Name	Reference to schedule as per Wild Life (protection) Act,1972, As Amended upto 2006			
			Schedule	Part/Serial		
	MAMMALS					
1.	Funambulus pennanti	Squirrel	IV	3-A		
2.	Herpestes edwardsi	Mongoose	IV	6-A		
3.	Mus rattus rattus	Common House Rat	V	6		
4.	Mus booduga	Indian Field Mouse	V	5		
5.	Lepus nigricollis	Common Indian hare	IV	4		
6.	Canis aureus (Linnaeus)	Indian Jackal	II	2-B		
7.	Vulpes bengalensis (Shaw)	Bengal Fox	II	1-B		
8.	Hystrix indica kerr	Porcupine	IV	4-E		
9.	Sus scrofa	Wild Boar	III	19		
	BIRDS			•		
1.	Acridotheres tristis	Common myna	IV	11		
2.	Bubo bubo	Owl	IV	11		
3.	Colombia livia	Pigeon	IV	54		
4.	Carvus splendens	House crow	V	1		
5.	Eudynamys scolopaceae	Koel	IV	-		
6.	Passer domesticus	House sparrow	IV	11		
7.	Pycnonotus cafer	Bulbul	IV	11 (8)		
8.	Tringa glareola	Wood sandpiper	IV	11		
	REPTILES					
1.	Calotes versicolor	Garden lizard	IV	12		
2.	Chameleon calcaratus	Chameleon	II	I		
3.	Naja naja	Spectacled cobra	II	11		
4.	Vipera russelli	Russel Viper	II	14		

LIST OF FAUNA IN THE STUDY AREA OF GOURANGDIH ABC COAL MINE OF M/S WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED DIST. PASCHIM BARDHAMAN, WEST BENGAL

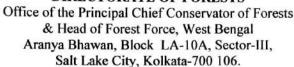
SI. No.	Zoological Name	Common Name	Reference to schedule as per Wild Life (protection) Act,1972, As Amended upto 2006		
			Schedule	Part/Serial	
	MAMMALS				
1.	Canis aureus (Linnaeus)	Indian Jackal	II	2-B	
2.	Hystrix indica kerr	Porcupine	IV	4-E	
3.	Capralogus species	Hare	IV	3-A	
4.	Felis chaus	Jungle Cat	II	2-C	
5.	Funambulus pennanti	Squirrel	IV	3-A	
6.	Herpestes edwardsi	Mongoose	IV	6A	
7.	Mus musculas	Mice	V	6	
8.	Mus Rattus rattus	Rat	V	6	
9.	Mus booduga	Indian Field Mouse	V	5	
10.	Presbytis chtellus	Common langur	II	I- (4-A)	
11.	Rousettus leschenaultia	Bat	V	3	
12.	Sus scrofa	Wild Boar	III	19	
13.	Vulpes bengalpensis	Bengal Fox	II	1-B	
14.	Melursus ursinus (Shaw)	Sloth Bear	I	31-C	
	BIRDS				
1.	Acridotheres tristis	Common myna	IV	11	
2.	Bubo bubo	Owl	IV	11	
3.	Colombia livia	Pigeon	IV	11	
4.	Corvus splendens,	Common Crow	V	1	
5.	Eudynamys scolopacea	Koel	IV	11	
6.	Gallus gallus	Jungli Murgi	II	II	
7.	Nettopus Coromandelianus	Ducks	IV	11(21)	
8.	Passer domesticus	House Sparrow	IV	11	
9.	Pycnonotus cafer	Bulbul	IV	11	
10.	Tringa glareola	Wood sandpiper	IV	11	

SI. No.	Zoological Name	Common Name	Reference to schedule as per Wild Life (protection) Act,1972, As Amended upto 2006		
			Schedule	Part/Serial	
11.	Francolinus pondicerianus	Grey partridge	IV	11	
12.	Chrysocolaptes festivus	Black backed wood pecker	IV	11	
13.	Bubulcus ibis	Cattle egret	IV	11	
14.	Streptopelia chinensis	Spotted dove	IV	11	
	REPTILES	1	1	1	
1.	Naja naja	Spectackled cobra	11	II-11	
2.	Natrix piscator	Water snake	IV	12	
3.	Ptyas mucosus	Rat Snake	II .	II-9	
4.	Hemidactylus domesticus	House lizard	II	I	
5.	Calotes versicolor	Garden lizard	IV	12	
6.	Chameleon calcaratus	Chameleon	П	I	
7.	Python molurus (Linnaeus)	Rock Python	I	14-A	
8.	Vipera russelli	Russel Viper	II.	14	
	FISHES				
1.	Clarias betrachus	Mangur	Not Applicable	-	
2.	Catla catla	Catla	Not Applicable	-	
3.	Puntius spp.	Potia	Not Applicable	-	
4.	Labeo rohita	Rohu	Not Applicable	-	
5.	Oreochromis niloticus	Tilapia	Not Applicable	-	

e.mail: pccfhoff.office-wb@gov.in Visit us at: www.westbengalforest.in



Government of West Bengal DIRECTORATE OF FORESTS





No. 3167/L</2M-1334/17

Dt. 27.08.2021

P

To :

The Chairman & Managing Director,

West Bengal Mineral Development & Trading Corporation Ltd.

WBIIDC Building, 3rd Floor, DJ-10, DJ Block, Sector –II, Salt Lake City, Kolkata- 700091

Sub:

Certificate regarding the absence of Schedule-I species & non-existence of any Wildlife / National Sanctuary within 10 Km. of the project area of Gourangdih ABC Coal Mines as

required by the EAC, MoEF & CC, New Delhi

Ref:

Your office letter no. i) MDTC/PM-5/144/Env/742 dated. 25.11.2020 &

ii) MDTC/PM-5/144/Env/589 dated. 18.08.2021

Sir,

With reference to above, it has been certified by the PCCF & CWLW vide his letter No. 896/WL/2M-33(Pt.-II)/2021 dated. 13.04.2021(copy enclosed) which states that there is no direct evidence of Schedule-I species and there is no Wildlife Sanctuary/National Park within 10 Km. of the project site.

Yours faithfully,

Addl. Principal Chief Conservator of Forests,

FCA & Nodal Officer.

Encl.: As stated above

No. 3170/L</2M-1334/17

Dt. 27.08.2021

Copy forwarded for information and necessary actions to, Principal Chief Conservator of Forests, Wildlife & CWLW, West Bengal.

(S. Mukherjee)

Principal Chief Conservator of Forests & Head of Forest Force, West Bengal



GOVERNMENT OF WEST BENGAL

DIRECTORATE OF FORESTS Office of the Principal Chief Conservator of Forests (Wildlife)

& Chief Wildlife Warden, West Bengal

Bikash Bhawan, North Block, Third Floor, Saltlake City, Kolkata - 700 091.

Tel No. 2334-6900/2358-3208, Fax. 91-033-2334-5946 e-mail.: pccfwl-wb@nic.in/pccfwloffice.fd-wb@bangla.gov.in, Visit us at <u>www.wildbengal.com</u>

Memo No.: 896 / WL / 2M-33(Pt-II)/ 2021 Date: 13 / 04 / 2021

To:

The Principal Chief Conservator of Forests

& Head of Forest Force, West Bengal.

Attention:

Addl. Principal Chief Conservator of Forests

and Nodal Officer, Forest Conservation Act, 1980

Sub:

Proposal for diversion 109.459 ha.s of Forest Land for opencast Mining Project at Gourangdih ABC Coal Mine in favour of WBMDTC under Durgapur Forest Division- Reg.

Ref .:

1.

WBMDTCL's letter no. MDTC/PM-5/144/Env/18 dated 05/01/2021.

DFO/ Durgapur Division's memo no. 3720/26 dated 04/01/2021. 2.

APCCF & CCF/ South-East Circle's letter no. 541/SEC/2M-10 dated 19/02/2021. 3.

WBMDTCL's letter no. MDTC/PM-5/144/Env/267 dated 22/03/2021. 4.

With reference to the subject under reference, please find enclosed the report submitted by the Divisional Forest Officer, Durgapur Division and field verified by the APCCF and CCF, South- East Circle. Both the officers have informed that :-

- 1. There is no direct evidence of existence of Schedule-I species in the project and buffer area but it is learnt that regular rescue of Rock Python within 10 km of the project site exists.
- 2. There is no Wildlife Sanctuary / National Park within 10 km area of the project site. This is for your information and taking needful action from your end. Ryadau

Encl.: as stated

(V.K. Yadav)

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

Memo No.: 896(3)/WL/2M-33(Pt-II)/2021

Date: 13/04/2021

Copy forwarded for information to :-

1. Addl. Chief Secretary, Forest Department, West Bengal.

The Chief Conservator of Forests, South-East Circle, West Bengal.

3. The Divisional Forest Officer, Durgapur Division.

Principal Chief Conservator of Forests, Wildlife

& Chief Wildlife Warden, West Bengal

Surita/WL(Hg)