



Government of India
Ministry of Environment, Forest and Climate Change
 (Issued by the State Level Expert Appraisal
 Committee(SEAC),
 WEST BENGAL)



सत्यमेव जयते

**Minutes of 28th meeting of reconstituted SEAC State Level Expert Appraisal
 Committee meeting held from 07/02/2024 to 07/02/2024**

Date: 20/02/2024

MoM ID:	EC/MOM/SEAC/988859/2/2024	
Agenda ID:	EC/AGENDA/SEAC/988859/2/2024	
Meeting Venue:	Conference Room, Paribesh Bhawan, West Bengal Pollution Control Board, Bidhannagar, Kolkata – 700 106.	
Meeting Mode:	Hybrid	
Date & Time:		
	07/02/2024	02:00 PM
		06:00 PM

1. Opening remarks

The Member Secretary, SEAC welcome the Members & the Chairman of the Committee and apprised them about the Agenda of the meeting.

2. Confirmation of the minutes of previous meeting

The proceedings of 27th meeting of SEAC held on 31.01.2024 was uploaded in the Parivesh Portal on 15.02.2024 with the approval of all the Members & the Competent Authority. SEAC confirmed the same.

3. Details of proposals considered by the committee

Day 1 -07/02/2024

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Naratambati Sand Mine by SUSANTA DUTTA located at PURBA BARDHAMAN, WEST BENGAL			
Proposal For	Fresh EC		
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/457781/2024	2N-40/2024(E)	05/01/2024	Mining of minerals (1(a))

3.1.2. Project Salient Features

- This is a proposal for riverbed sand mining at the RAINA-II/NARATAMBATI/2502(P)/B sand block over an extent of 3.16 ha (7.82 Acres) on the Dwarakeshwar river at Plot No: 2502(P), J.L. No.: 136, Mouza: Naratambati, P.S.- Madhabdihi, Block - Raina-II, Dist - Purba Bardhaman, West Bengal.
- **The project is falling within the DSR potential zone code PBD_RN2_DW_04.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan' prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 30.11.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The revised production details as per the DSR uploaded by the PP is given below :-

Total Area (ha)	Safety Zone (ha)	Production Area (ha)	Thickness (M)
3.16	0.62	2.54	3.00

Year	Total Area (ha)	Thickness (M)	Replenishment Rate	Geological Resource (Cu.M)
1	3.16	3.00	100%	94800
2	3.16	2.346	78.20%	74133.6
3	3.16	2.346	78.20%	74133.6
4	3.16	2.346	78.20%	74133.6
5	3.16	2.346	78.20%	74133.6
Total Geological Resource				391334.4

Year	Total Area (ha)	Thickness (M)	Replenishment Rate	Mineable Reserve (Cu.M)
1	2.54	3.00	100%	76200
2	2.54	2.346	78.20%	59588.4
3	2.54	2.346	78.20%	59588.4
4	2.54	2.346	78.20%	59588.4
5	2.54	2.346	78.20%	59588.4
Total Mineable Reserve (Cu.M)				314553.6
Total Mineable Reserve (C.Ft.)				1.11 cr cft

3.1.3. Deliberations by the committee in previous meetings

N/A

3.1.4. Deliberations by the SEAC in current meetings

- Based on the submission and presentation made by the PP, the committee observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- However, the SEAC made the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration :-

- 1) Valid LoI from the competent authority.
- 2) Requisite EC processing fees as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.
- 3) Specific need based EMP indicating the beneficiaries.
- 4) Study of aquatic flora and fauna, including planktons.

Recommendation: The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

3.1.5. Recommendation of SEAC

Deferred for ADS

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Magh Riverbed Sand Block (MIN_PUR_15) by WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED located at PURULIA, WEST BENGAL			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/458258/2024	2N-398/2023(E)	19/01/2024	Mining of minerals (1(a))

3.2.2. Project Salient Features

- This is a proposal for Magh Riverbed Sand Block (MIN_PUR_15) over an area of 10.15 ha (25.08 Acres) on the Subarnarekha River at J. L. No. – 45, Plot No. 1599(P) & 1600(P), Mouza – Magh, PS – Jhalda, Block – Jhalda-I, District – Purulia, West Bengal.
- **The project is falling within the potential zone code PUR_JL_SR_07.**
- The PP has obtained Provisional Grant Order for Sand Blocks vide Memo No. 04(I/301012/2022)-ICE-

12011(99)/27/2022-MINES SEC-Dept of ICE Dated 03.01.2023.

- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan with Progressive Mine Closure Plan' for riverbed sand mining at the site prepared by an RQP. The Plan has been approved by the State Government on 18.04.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

Geological Resource of the sand deposit.

TOTAL AREA (Ha)	SAFETY ZONE(Ha)	PRODUCTION AREA (Ha)	THICKNESS(m)
10.15	1.42	8.73	1.5

Year	Total Area (ha)	Thickness	Replenishment Rate %	GR (cum)
1	10.15	1.5	100	152250
2	10.15	1.125	75	114187.5
3	10.15	1.125	75	114187.5
4	10.15	1.125	75	114187.5
5	10.15	1.125	75	114187.5
Total Geological Resource (cu.M)				609000
Total Geological Resource (Cr. Cft.)				2.15

into account the rate of replenishment, the mineable reserves are estimated as below:

Mineable Reserve of the sand deposit.

Year	Total area (ha)	Thickness	Replenishment Rate %	MR (cum)
1	8.73	1.5	100	130950
2	8.73	1.42	75	98212.5
3	8.73	1.42	75	98212.5
4	8.73	1.42	75	98212.5
5	8.73	1.42	75	98212.5
Total Mineable Reserve (cum)				523800
Total Mineable Reserve (C.ft.)				1.84 Cr.Ft.

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the committee in previous meetings

N/A

3.2.4. Deliberations by the SEAC in current meetings

- Based on the submission and presentation made by the PP, the committee observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purulia district.
- The SEAC scrutinized the documents submitted by the PP in the 28th SEAC meeting held on 07.02.2024 and after careful consideration and detailed deliberation the committee observed that the PP has not submitted any specific reply to the additional points mentioned in the ToR especially the points f, g & h. No details of plantation has been mentioned. Detailed study of aquatic life, especially, plankton has not been submitted.

Therefore, the SEAC recommended that the above documents should be rectified and submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through “PARIVESH” portal.

3.2.5. Recommendation of SEAC

Deferred for ADS

3.3. Agenda Item No 3:

3.3.1. Details of the proposal

Nischintapur Sand Mine by SWAPAN DAS BHOWMIK located at MEDINIPUR WEST, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/445195/2023	2N-95/2023(E)	30/01/2024	Mining of minerals (1(a))

3.3.2. Project Salient Features

- This is a proposal for Nischintapur Sand Mine of MSB-57 sand block over an area of 3.60 ha (8.89 Acres) on the river Kangshabati at Plot no: 1(P), 2(P), 3(P), 19(P) & 20(P), J.L. No.-48, Mouza: Nischintapur, P.S.: Medinipur, District: Paschim Medinipur, West Bengal.
- **The project is falling within the DSR potential zone code PO_PSM_MD_KS_10(XA).**
- The PP has uploaded the pre-feasibility report for the proposed project.
- The PP has uploaded the copy of valid LOI.
- **The PP has not uploaded cluster certificate from the competent authority.**
- The PP has submitted the need-based EMP.
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite ‘Mining Plan’ prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 17.08.2023 and the approved plan has been uploaded at the PARIVESH portal by the

PP.

- The production details as mentioned in the Mining Plan is given below :-

Geological reserves of the sand deposit

Year	Total area (ha)	Thickness (m)	Replenishment rate (%)	Geological Reserve in (m ³)
1	3.60	2.50	100	90000
2	3.60	1.88325	75.33	67797
3	3.60	1.88325	75.33	67797
4	3.60	1.88325	75.33	67797
5	3.60	1.88325	75.33	67797
Total Geological resources				361188

Mineable reserves of the sand deposit

Year	Total area (ha)	Thickness (m)	Replenishment rate (%)	Mineable Reserve in (m ³)
1	3.00	2.50	100	75000
2	3.00	1.88325	75.33	56497.5
3	3.00	1.88325	75.33	56497.5
4	3.00	1.88325	75.33	56497.5
5	3.00	1.88325	75.33	56497.5
Total Mineable resources (Cu.M)				300990
Total Mineable resources (C.Ft)				1.063 cr cft

3.3.3. Deliberations by the committee in previous meetings

N/A

3.3.4. Deliberations by the SEAC in current meetings

- Based on the submission and presentation made by the PP, the SEAC observed that **the entire plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Paschim Medinipur district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard**

Terms of Reference for EIA preparation for the project with the following additional conditions :-

1. Cluster Certificate from the competent authority.
2. Photographs of the site mentioning the geo-coordinates.
3. Standard practice of management of the intermediate storage area should be submitted.
4. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
5. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
6. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
7. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approvals.
8. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
9. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
10. The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
11. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates.
12. A study report on base flow level measured at 4 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
13. Management plan including the final closure plan of haul road to be submitted.
14. Sieve analysis report for grain size distribution should be provided.
15. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents / submissions / clarifications sought above.

All the documents should be duly signed both by the project proponent and environmental the consultant.

3.3.5. Recommendation of SEAC

Recommended

3.3.6. Details of Terms of Reference

3.3.6.1. Specific

Additional conditions imposed by SEAC -

1.	<ol style="list-style-type: none"> 1. Cluster Certificate from the competent authority. 2. Photographs of the site mentioning the geo-coordinates. 3. Standard practice of management of the intermediate storage area should be submitted. 4. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted. 5. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted. 6. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted. 7. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approvals. 8. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs. 9. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna. 10. The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost. 11. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates. 12. A study report on base flow level measured at 4 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised. 13. Management plan including the final closure plan of haul road to be submitted. 14. Sieve analysis report for grain size distribution should be provided. 15. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.
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3.3.6.2. Standard

1(a)	Mining of minerals
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1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also, providing pillar cordinates and site layout plan. Insuch cases cumulative impact of mine operation with

	washery to be assessed and EMP measure to be drawn to the worst scenario										
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn										
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided										
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also										
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.										
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.										
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need eloboration in form of lengthe, quantity and quality of water to be diverted										
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.										
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.										
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing though the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.										
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.										
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights <table border="1" data-bbox="204 1960 1476 2105"> <thead> <tr> <th>S.N</th> <th>ML/Project Land use</th> <th>Area under Surface</th> <th>Area Under Mining Rights(ha)</th> <th>Area under Both (ha)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	S.N	ML/Project Land use	Area under Surface	Area Under Mining Rights(ha)	Area under Both (ha)					
S.N	ML/Project Land use	Area under Surface	Area Under Mining Rights(ha)	Area under Both (ha)							

		Rights(ha)	(ha)	
1	Agricultural land			
2	Forest Land			
3	Grazing Land			
4	Settlements			
5	Others (specify)			

S.N.	Details	Area (ha)
1	Buildings	
2	Infrastructure	
3	Roads	
4	Others (specify)	
	Total	

1.	Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
1.	One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.
1.	Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
1.	For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided

1.	A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
1.	The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.
1.	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.

1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
1.	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
1.	Corporate Environment Responsibility:
1.	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
1.	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
1.	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
1.	d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
1.	e) Environment Managment Cell and its responsibilities to be clearly spleel out in EIA/ EMP report

1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.																								
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																								
1.	Status of any litigations/ court cases filed/pending on the project should be provided.																								
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																								
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																								
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total</th> <th>ML</th> <th>Total</th> <th rowspan="2">Date of FC</th> <th rowspan="2">Extent of Forest Land</th> <th rowspan="2">Balance area for which FC is yet to be obtained</th> <th rowspan="2">Status of appl For diversion of forest land</th> </tr> <tr> <th>Project</th> <th>Area</th> <th>Forest</th> </tr> </thead> <tbody> <tr> <td>(ha)</td> <td></td> <td>land (ha)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total	ML	Total	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land	Project	Area	Forest	(ha)		land (ha)							If more than one provide details of each FC				
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1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																								
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.																								
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes																								
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.																								
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report																								
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)																								
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.																								

3.4. Agenda Item No 4:

3.4.1. Details of the proposal

Kumirkola Sand Mine by PACKHORSE TRADERS PRIVATE LIMITED located at PURBA

BARDHAMAN, WEST BENGAL			
Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/458570/2024	2N-185/2023(E)	13/01/2024	Mining of minerals (1(a))

3.4.2. Project Salient Features

- This is a proposal for Kumirkola Sand Mine of KHANDAGHOSH/KUMIRKOLA/669(P), ORS/B sand block over an area of 4.91 ha (12.14 Acres) on river Damodar at plot no: 669(P), 670, 742, 750, 751(P) 752, 774, 775(P), 632(P), 779(P), 674(P), 660(P), 659, 673, 778, 672, 671, 749(P), 741(P), 606(P), J.L. No.-9, Mouza: Kumirkola, P.S. Khandaghosh, District: Purba Bardhaman, West Bengal.
- **The project is falling within the DSR potential zone code PBBD_GL2_DA_05.**
- The PP has uploaded the pre-feasibility report for the proposed project.
- The PP has uploaded the copy of valid LoI.
- **The PP has not uploaded cluster certificate from the competent authority.**
- The PP has submitted the need-based EMP.
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan' prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 30.11.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

Reserves and year wise proposed production details

Total Area (ha)	Safety Zone (ha)	Production Area (ha)	Thickness (M)
4.75	0.70	4.05	2.88

Geological resource of the sand deposit

Year	Total Area (ha)	Thickness (M)	Replenishment Rate	Geological Resource (Cum)
1	4.75	2.88	100%	136800
2	4.75	2.16	75%	102600
3	4.75	2.16	75%	102600
4	4.75	2.16	75%	102600
5	4.75	2.16	75%	102600
TOTAL GEOLOGICAL RESOUC				547200

Mineable Reserve of the sand deposit

Year	Total Area (ha)	Thickness (M)	Replenishment Rate	Mineable Reserve (Cum)
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1	4.05	2.88	100%	116640
2	4.05	2.16	75%	87480
3	4.05	2.16	75%	87480
4	4.05	2.16	75%	87480
5	4.05	2.16	75%	87480
Total Mineable Reserve (Cu.M)				466560
Total Mineable Reserve (C.Ft.)				1.65 cr cft

3.4.3. Deliberations by the committee in previous meetings

N/A

3.4.4. Deliberations by the SEAC in current meetings

- Based on the submission and presentation made by the PP, the SEAC observed that **the entire plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 1. Cluster Certificate from the competent authority.
 2. Photographs of the site mentioning the geo-coordinates.
 3. Standard practice of management of the intermediate storage area should be submitted.
 4. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard topping or paving of any haulage route within the riverbed will be attempted.
 5. A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 6. A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 7. Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approvals.
 8. Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 9. EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 10. The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
 11. A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already

done should be provided by photographs with geo-coordinates.

12. A study report on base flow level measured at 4 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
13. Management plan including the final closure plan of haul road to be submitted.
14. Sieve analysis report for grain size distribution should be provided.
15. Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

While applying for environmental clearance, the PP shall upload in the PARIVESH portal, the EIA/EMP report along with the documents / submissions / clarifications sought above.

All the documents should be duly signed both by the project proponent and the environmental consultant.

3.4.5. Recommendation of SEAC

Recommended

3.4.6. Details of Terms of Reference

3.4.6.1. Specific

Additional conditions imposed by SEAC -

1. Cluster Certificate from the competent authority.
2. Photographs of the site mentioning the geo-coordinates.
3. Standard practice of management of the intermediate storage area should be submitted.
4. Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
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3.4.6.2. Standard

1(a)	Mining of minerals
null	
1.	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also, providing pillar cordinates and site layout plan. Insuch cases cumulative impact of mine operation with washery to be assessd and EMP measure to be drawn to the worst scenario
1.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also
1.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
1.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
1.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the

	catchment area with basin of major rivers. Diversion of drains/ river need elaboration in form of length, quantity and quality of water to be diverted																																															
1.	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.																																															
1.	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.																																															
1.	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.																																															
1.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.																																															
1.	Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights <table border="1" data-bbox="204 1099 1474 1688"> <thead> <tr> <th rowspan="2">S.N</th> <th rowspan="2">ML/Project Land use</th> <th>Area under Surface Rights</th> <th>Area Under Mining Rights</th> <th rowspan="2">Area under Both (ha)</th> </tr> <tr> <th>(ha)</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Agricultural land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Forest Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Grazing Land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Settlements</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Others (specify)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1" data-bbox="204 1697 715 2101"> <thead> <tr> <th>S.N.</th> <th>Details</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buildings</td> <td></td> </tr> <tr> <td>2</td> <td>Infrastructure</td> <td></td> </tr> <tr> <td>3</td> <td>Roads</td> <td></td> </tr> <tr> <td>4</td> <td>Others (specify)</td> <td></td> </tr> </tbody> </table>	S.N	ML/Project Land use	Area under Surface Rights	Area Under Mining Rights	Area under Both (ha)	(ha)	(ha)	1	Agricultural land				2	Forest Land				3	Grazing Land				4	Settlements				5	Others (specify)				S.N.	Details	Area (ha)	1	Buildings		2	Infrastructure		3	Roads		4	Others (specify)	
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1.	<p>Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.</p>			
1.	<p>One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.</p>			
1.	<p>Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.</p>			
1.	<p>For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided</p>			
1.	<p>A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.</p>			
1.	<p>The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.</p>			
1.	<p>The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.</p>			
1.	<p>Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.</p>			
1.	<p>Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted</p>			
1.	<p>Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of</p>			

	rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.

1.	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.														
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1.	e) Environment Managment Cell and its responsibilities to be clearly spleel out in EIA/ EMP report														
1.	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.														
1.	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.														
1.	Status of any litigations/ court cases filed/pending on the project should be provided.														
1.	PP shall submit clarification from PCCF that mine does not falls under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.														
1.	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.														
1.	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="1"> <thead> <tr> <th>Total Project (ha)</th> <th>ML Area</th> <th>Total Forest land (ha)</th> <th rowspan="2">Date of FC</th> <th rowspan="2">Extent of Forest Land</th> <th rowspan="2">Balance area for which FC is yet to be obtained</th> <th rowspan="2">Status of appl For diversion of forest land</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>If more than one provide details of each FC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Total Project (ha)	ML Area	Total Forest land (ha)	Date of FC	Extent of Forest Land	Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land			If more than one provide details of each FC				
Total Project (ha)	ML Area	Total Forest land (ha)	Date of FC	Extent of Forest Land					Balance area for which FC is yet to be obtained	Status of appl For diversion of forest land					
		If more than one provide details of each FC													

1.	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report
1.	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.
1.	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes
1.	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.
1.	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report
1.	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)
1.	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.

3.5. Agenda Item No 5:

3.5.1. Details of the proposal

Purbatore Sand Mine (MIN_BNK_62) by WEST BENGAL MINERAL DEVELOPMENT AND TRADING CORPORATION LIMITED located at BANKURA, WEST BENGAL			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/457264/2023	2N-397/2023(E)	04/01/2024	Mining of minerals (1(a))

3.5.2. Project Salient Features

<ul style="list-style-type: none"> This is a proposal for Purbatore Sand Mine (MIN_BNK_62) over an area of 7.07 ha (17.47 Acre) on the Damodar river at Plot no. 970(P), JL No. 67, Mouza – Purbatore, PS – Mejhia, Dist – Bankura, West Bengal. The project is falling within the potential zone code BNK_DA_MJ_16_17. The PP has obtained Provisional Grant Order for Sand Blocks vide Memo No. 187/ICE-12011(99)/27/2022-MINESSEC-Dept of ICE Dated 17/03/2023. The PP has uploaded non-cluster certificate from the competent authority. The sand block is not forming cluster with any adjacent sand block. As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite ‘Mining Plan’ prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 18.04.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.

- The production details as mentioned in the Mining Plan is given below :-

Geological Resource of the sand deposit.

YEAR	Total Area (ha)	Thickness	Replenishment Rate %	GR(Cum)
1	7.07	3.000	100%	212100.00
2	7.07	2.202	73.4	155681.40
3	7.07	2.202	73.4	155681.40
4	7.07	2.202	73.4	155681.40
5	7.07	2.202	73.4	155681.40
Total geological reserve (cum)				834825.60

Leaving aside the safety berms and barriers, and taking into account the rate of replenishment, the mineable reserves are estimated as below:

Mineable Reserve of the sand deposit.

YEAR	Total Area (ha)	Thickness	Replenishment Rate %	MR(Cum)
1	5.88	3.000	100%	176400.00
2	5.88	2.202	73.4	129477.60
3	5.88	2.202	73.4	129477.60
4	5.88	2.202	73.4	129477.60
5	5.88	2.202	73.4	129477.60
Total mineable reserve (cum)				694310.40
Total Mineable Reserve (C. Ft.)				2.452 Cr.

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y the committee in previous meetings

N/A

3.5.4. Deliberations by the SEAC in current meetings

- Based on the submission and presentation made by the PP, the committee observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Bankura district.
- The SEAC scrutinized the documents submitted by the PP in the 28th SEAC meeting held on 07.02.2024 and after careful consideration and detailed deliberation the committee observed that the PP has not submitted any specific reply to the additional points mentioned in the ToR especially the points f, g & h. Also, the coordinates mentioned in the Cluster Certificate, Mine Plan and Provisional Grant Order do not

match. No details of plantation has been mentioned. Detailed study of aquatic life, including plankton has not been submitted.

Therefore, the SEAC recommended that the above documents should be rectified and submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through “PARIVESH” portal.

3.5.5. Recommendation of SEAC

Deferred for ADS

3.6. Agenda Item No 6:

3.6.1. Details of the proposal

Purbator Sand Mine by SANTOSH CHOURASIA located at BANKURA, WEST BENGAL			
Proposal For		Mining EC Under 5 Ha	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/458081/2024	2N-56/2021(E)	09/01/2024	Mining of minerals (1(a))

3.6.2. Project Salient Features

- This is a proposal for riverbed sand mining at the 0105DM018 sand block over an extent of 4.54 ha. (11.21 acres) on the Damodar River at Mouza- Purbator, J.L. No.- 67, Plot No.-970(P), Block & P.S. - Mejhia, District- Bankura, West Bengal.
- **The project is falling within the DSR potential zone code PO_BNK_DA_MJ_11_12_13_14_15_16_17.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite ‘Mining Plan & Progressive Mine Closure Plan’ prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 16.10.2020 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The revised production details as per the DSR uploaded by the PP is given below :-

Years	Production			
	Cum. per year	Tons per year	Tons per day	Cum./Day
1 st *	108996	206002.44	1030.01	544.98
2 nd *	108996	206002.44	1030.01	544.98
3 rd *	108996	206002.44	1030.01	544.98

4 th *	108996	206002.44	1030.01	544.98
5 th *	108996	206002.44	1030.01	544.98
*The production in the subsequent year may vary based on Replenishment of Sand in the River bed.				

3.6.3. Deliberations by the committee in previous meetings

N/A

3.6.4. Deliberations by the SEAC in current meetings

- The PP did not appear before the SEAC for EC presentation. The SEAC decided that the PP should explain the reasons for its absence. If the reasons are found to be satisfactory, the PP may be allowed to present its case in a subsequent meeting.

3.6.5. Recommendation of SEAC

Deferred for PP not attending the meeting

3.7. Agenda Item No 7:

3.7.1. Details of the proposal

Proposed Ethanol / Extra Neutral Alcohol (ENA) Manufacturing Plant and 4.9 MW Cogeneration Power Plant of M/s. Gujarat Ambuja Exports Limited at Malda Industrial Growth Centre (Phase II), Opp. Jubilee Petrol Pump, Vill – Mandilpur, P. O. - Narayanpur, P. S. – Malda, West Bengal, PIN– 732141 by GUJARAT AMBUJA EXPORTS LTD located at MALDAH, WEST BENGAL

Proposal For

Fresh EC

Proposal No

File No

Submission Date

**Activity
(Schedule Item)**

[SIA/WB/IND2/441212/2023](#)

2N-18/2022(E)

31/01/2024

Distilleries (5(g))

3.7.2. Project Salient Features

- This is a proposal for a green-field project for producing Ethanol/ Extra Neutral Alcohol (ENA) at a rated capacity of 180 KLPD along with a 4.9 MW co-generation power plant. Total land area of the project is 3.407 ha (8.42 acre).
- Salient features of the proposed project as uploaded by the PP in the PARIVESH portal is as below –

Location of the project

J.L No. 93, Malda Industrial Growth Centre, Phase II, Opp. Jubilee Petrol Pump, Vill – Mandilpur, P. O. – Narayanpur, P. S. – Malda, West Bengal, Pin– 732141.

Latitude & Longitude	Latitude: 25° 3'53.51"N Longitude: 88° 8'58.83"E
Land Area	8.42 acres
Green Area	3.00 Acres (35.66%)
Manpower	Administrative: 65 Contractual: 25 Total: 90

Area Break-Up Details	Sl. No.	Description	Area		%
			In Sqm.	In Acre	
	1.	Plant Shed & Covered Area	10989	2.72	32.24
	1.	Greenbelt Area	12155	3.00	35.66
	1.	Parking Area	234	0.06	0.69
	1.	Road Area	994	0.25	2.92
	1.	Open Area	9716	2.40	28.50
	Total Plot Area		34088	8.42	100.00

Product & Installation Details	Name of the Product		Production Capacity
	Major Product		
	Extra Neutral Alcohol (ENA)/Ethanol		180 KLD
	Power Generation		4.9 MW
	By-Products		
	Dried Distillers Grains with Soluble (DDGS)		110 TPD
	CO2		90 TPD

List of Major
Plant Machine
ries

S.N.	Description	Capac ity	Quant ity
Grain Silo			
1.	Grain Pre- Cleaner	15 TP H	1 no.
1.	Galvanized Corrugated Silo	3000 MT	2 nos.
Grain Mil			
1.	Grinding Mill	10 TP H	2 nos.
1.	Silo	25 MT	2 nos.
Liquefaction Section			
1.	Liquefaction Tank	110 m 3	1 no.
Yeast Propagation System and Fermentation Section			
1.	Culture Vessel – I, II & III	1.3 m3	1 no. e ach
1.	Fermenters	650 m 3	3 nos.
Alcohol Storage Section			
1.	Absolute alcohol Storage Tank with vent condenser & flame arrestors	1000 m3	2 nos.
For Captive Power plant			
1.	Steam Boiler	55 TP H	1 no.
1.	Steam Turbine	4.9 M W	1 no.

Total Water requirement	2204 KLD																								
Daily Fresh Water Requirement	1054 KLD																								
Total Waste Water Recycled	1150 KLD																								
Source	Ground water supply																								
Industrial waste generation	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Industrial waste</th> <th>Quantity (TPM)</th> </tr> </thead> <tbody> <tr> <td colspan="3">Solid Waste</td> </tr> <tr> <td>1.</td> <td>Fly Ash from Boiler</td> <td>506</td> </tr> <tr> <td>1.</td> <td>Yeast Sludge</td> <td>54</td> </tr> <tr> <td>1.</td> <td>CPU Sludge</td> <td>1.5</td> </tr> <tr> <td>1.</td> <td>DDGS</td> <td>3025</td> </tr> <tr> <td colspan="3">Hazardous Waste</td> </tr> <tr> <td>1.</td> <td>Steam Turbine Oil Waste</td> <td>49 L</td> </tr> </tbody> </table>	Sl. No.	Industrial waste	Quantity (TPM)	Solid Waste			1.	Fly Ash from Boiler	506	1.	Yeast Sludge	54	1.	CPU Sludge	1.5	1.	DDGS	3025	Hazardous Waste			1.	Steam Turbine Oil Waste	49 L
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Hazardous Waste																									
1.	Steam Turbine Oil Waste	49 L																							
Power	Estimated power consumption: 4.9 MW Source: Captive																								
Backup power	1 x 1250 kVA D.G Set																								
Steam Requirement	53.725 TPH																								
Project cost (Rs)	Rs.125 Crores																								

3.7.3. Deliberations by the committee in previous meetings

N/A

3.7.4. Deliberations by the SEAC in current meetings

- Based on the application made, documents uploaded / submitted, and the presentation made by the PP/Consultant, the SEAC made the following observations:

Mandatory documents

- The sanctioned plan should indicate the area for raw water treatment plant and DM (de-mineralization) plant.
- Revised hydrogeological study as discussed in the meeting. Impact of abstraction on the groundwater system should be stated. Sub-surface lithology with colour of the sediments should be submitted.
- Measures adopted for mitigation of environmental pollution due to stacking and handling of coal/ rice husk.
- Material Safety Data Sheets (MSDS) containing information on the potential hazards (health, fire, reactivity and environmental) and proposed safety measures including safe operating procedures to be adopted.
- Details of all the compounds to be generated from distillation (rectification & analyser columns).
- Details of process for producing ENA from alcohol.
- Emission control system to be adopted for the milling operations.
- Disposal of sludge and backwash water generated from the water treatment plant, both of which may contain excess arsenic as the locality has arsenic contamination in groundwater.

Solid waste

- Analysis of boiler ash, especially for silica, should be provided.
- Analysis of the DDGS before using for cattle feed.

Green Belt Development

- No. of trees to be planted around the periphery should be 4000 plus to cover 35% of the project site @ 1500 nos. per hectare in three tiers.

Water and waste water

- Analysis of raw water and treated raw water are to be furnished.
- Details of the DM plant, if provided for the boiler, to be submitted.
- The RO treated water should be used only for the process and not for plantation or dust suppression.
- Details of water sprinkling to be done outside the project area. Control measures for reduced dust generation during col handling may be submitted.
- Plan for safe disposal of any backwash water or spent regenerant, generated from the water treatment plant, both of which may contain excess arsenic as the locality has arsenic contamination in groundwater. Disposal of RO reject may be mentioned with the expected quality of the RO reject.
- Depth of wells monitored for groundwater quality to be submitted. Permanent piezometer needs to be installed and reporting of the groundwater level with periodical compliance reports.
- Report of Manganese concentration in groundwater should be submitted.

The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

3.7.5. Recommendation of SEAC

Deferred for ADS

3.8. Agenda Item No 8:

3.8.1. Details of the proposal

Taladih Blackstone Mine by JHARLAL SINGH located at PURULIA, WEST BENGAL			
Proposal For		Mining EC Under 5 Ha	
Proposal No	File No	Submission Date	Activity

			(Schedule Item)
SIA/WB/MIN/457400/2024	2N-41/2024(E)	18/01/2024	Mining of minerals (1(a))

3.8.2. Project Salient Features

- This is a proposal for Taladih Blackstone Mine over an area of 4.621 ha at JL No -209, Plot No -164(P), Mouza – Taladih, Block & P.S. – Barabazar, Subdivision – Manbazar, District – Purulia, West Bengal.
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite ‘Mining Plan with Progressive Mine Closure Plan’ for black stone mining at the site prepared by an RQP. The Plan has been approved by the State Government on 11.01.2024 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

BLACKSTONE										
Year	RL		Average Area	Height	Volume	Specific Gravity	Tonnage	Production Of Blackstone (Tonnes)	Mining Loss	Extractable Reserves (Tonnes)
	FROM (M)	To (M)								
1 ST YEAR	226.83	224	23185	2.83	65613.55	2.84	186342	214458	2%	210169
	224	218	1650	6	9900	2.84	28116			
2 ND YEAR	224	218	20200	6	121200	2.84	344208	456859	2%	447722
	218	212	6616	6	39666	2.84	112651.44			
3 RD YEAR	218	212	12660	6	75960	2.84	215728	452832	2%	443776
	212	210	16502	2	33004	2.84	93731			
	210	206	12621	4	50484	2.84	143375			
4 TH YEAR	210	206	12651	4	50604	2.84	143715.36	451338	2%	442312
	206	200	18053	6	108318	2.84	307623.1			
5 TH YEAR	206	200	5200	6	31200	2.84	88608	463335	2%	454068
	200	194	21991	6	131946	2.84	374727			

TOTAL	717895. 55		2038822. 9	203882 2		1998047	
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3.8.3. Deliberations by the committee in previous meetings

N/A

3.8.4. Deliberations by the SEAC in current meetings

- Based on the submission and presentation made by the PP, the SEAC observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan does not fall within the potential mining zone recorded in the approved District Survey Report (DSR) of Purulia district.

Recommendation: Considering the above, the SEAC recommended that the present proposal may be rejected.

3.8.5. Recommendation of SEAC

Not Recommended

3.9. Agenda Item No 9:

3.9.1. Details of the proposal

Bamnishala Blackstone Mine by DIBYENDU MONDAL located at BANKURA, WEST BENGAL			
Proposal For		Mining EC Under 5 Ha	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/457717/2024	2N-43/2024(E)	10/01/2024	Mining of minerals (1(a))

3.9.2. Project Salient Features

- This is a proposal for Bamnishala Blackstone Mine over an area of 1.287 ha (3.180 acres) at Plot No. 60, 82 & 91, JL No. 98, PS & Block - Saltora, District - Bankura, West Bengal.
- The project is falling within the DSR potential zone code BNK_BS_ZONE_1.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan including Mine Closure Plan' for black stone mining at the site prepared by an RQP. The Plan has been approved by the State Government on 12.12.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

Year	RL		Average Area	Height (M)	Volume (Cum)	Bulk Density	Tonnage	Mineable Reserve (Mt)	Mining Loss	Extractable Reserve (Mt)
	From (M)	To (M)								
1 st	148	147	8747.57	1	8747.57	2.83	24755.62	0.025	2%	0.024
2 nd	147	141	7851.84	6	47111.05	2.83	133324.28	0.133		0.131
3 rd	141	135	6703.45	6	40220.70	2.83	113824.57	0.210		0.205
	135	129	5637.59	6	33825.57	2.83	95726.36			
4 th	129	12	4656.54	6	27939.27	2.83	79068.13	0.079		0.077
5 th	123	118	3749.97	5	18749.85	2.83	53062.06	0.053		0.052
Total								0.50	DSS	0.49

3.9.3. Deliberations by the committee in previous meetings

N/A

3.9.4. Deliberations by the SEAC in current meetings

- Based on the submission and presentation made by the PP, the SEAC observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan falls within the potential mining zone recorded in the approved District Survey Report (DSR) of Bankura district.
- However, the SEAC made the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration :-
 1. Revised project cost (with details) for the project considering the current land valuation.
 2. Distance of the project from any Protected Areas notified under the Wild Life (Protection) Act, 1972 (53 of 1972) or eco-sensitive areas as notified under sub-section (2) of section 3 of the Environment (Protection) Act, 1986, to be certified from the competent authority.
 3. Drone survey of the area.
 4. Traffic management plan.
 5. Impact of explosives on local flora, fauna and ground water.
 6. Need based EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Consents from the beneficiaries of the social part of EMP should be furnished.
 7. A Progressive Greenbelt Plan should be submitted. Afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self governing

- bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life.
8. Plan and section of the mine as given in the approved Mine Plan should be submitted.
 9. Details of occupational health measures to be adopted for the workers employed for the project.
 10. A document related to replenishment was uploaded, that should be removed.

Recommendation: The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant. The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through “PARIVESH” portal.

3.9.5. Recommendation of SEAC

Deferred for ADS

3.10. Agenda Item No 10:

3.10.1. Details of the proposal

Dhatala Blackstone Mining Project by DINESH MONDAL located at BANKURA, WEST BENGAL			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/457147/2023	2N-44/2024(E)	04/01/2024	Mining of minerals (1(a))

3.10.2. Project Salient Features

- This is a proposal for Dhatala Blackstone Mining Project over an area of 1.436 ha. (3.55 acres) at J.L. No.- 115, Plot Nos- 626, 661, Mouza – Dhatala, PS & Block – Saltora, Dist – Bankura, West Bengal.
- **The project is falling within the DSR potential zone code **BNK_BS_ZONE_1**.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite ‘Mining Plan including Mine Closure Plan’ for black stone mining at the site prepared by an RQP. The Plan has been approved by the State Government on 09.10.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

Year	RL	Average	Heigh	Volume (In-sit	Tonnage	Minea	Minin	Extracta
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			Area	t (M)	Cum)	u De nsity		ble Re serve (Mt)	g Loss	ble Rese rve (Mt)
	From (M)	To (M)								
1 st	148	145	8478.614 8	3	25435.84 44	2.84	72237.79 8	0.072	2%	0.071
2 nd	145	139	7097.286 4	6	42583.71 84	2.84	120937.7 60	0.121	2%	0.119
3 rd	139	133	5399.679 6	6	32398.07 76	2.84	92010.54 0	0.092	2%	0.090
4 th	133	127	4409.142 8	6	26454.85 68	2.84	75131.79 3	0.075	2%	0.074
5 th	127	121	3269.753 4	6	19618.52 04	2.84	55716.59 8	0.056	2%	0.055
								0.416		0.408

3.10.3. Deliberations by the committee in previous meetings

N/A

3.10.4. Deliberations by the SEAC in current meetings

- Based on the submission and presentation made by the PP, the SEAC observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan falls within the potential mining zone recorded in the approved District Survey Report (DSR) of Bankura district.
- However, the SEAC made the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration :-
 - 1) Revised project cost (details) for the project considering the current land valuation.
 - 2) Drone survey of the area.
 - 3) Traffic management plan.
 - 4) Impact of explosives on local flora, fauna and ground water.
 - 5) Need based EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Consents from the beneficiaries of the social part of EMP should be furnished.
 - 6) A Progressive Greenbelt Plan should be submitted. Afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life.

- 7) Plan and section of the mine as given in the approved Mine Plan should be submitted.
- 8) Details of occupational health measures to be adopted for the workers employed for the project.
- 9) A document related to replenishment was uploaded, that should be removed.

Recommendation: The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant. The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through “PARIVESH” portal.

3.10.5. Recommendation of SEAC

Deferred for ADS

3.11. Agenda Item No 11:

3.11.1. Details of the proposal

DEEP BLACK STONE PROJECT by SARANDEEP SAINI located at BANKURA, WEST BENGAL			
Proposal For		Mining EC Under 5 Ha	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/457957/2024	2N-42/2024(E)	12/01/2024	Mining of minerals (1(a))

3.11.2. Project Salient Features

- This is a proposal for Deep Black Stone Project over an area of 4.223 ha (10.44 acre) at Mouza: Mouchuria, JL No.: 111, Plot No.: 35(P), Block: Saltora, District: Bankura, West Bengal.
- **The project is falling within the DSR potential zone code BNK_BS_ZONE_1.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite ‘Mining Plan with Progressive Mine Closure Plan’ for black stone mining at the site prepared by an RQP. The Plan has been approved by the State Government on 27.09.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

Average RL Wise in (M)	RL. Wise Net Mineable Area in (M2)	RL. Wise Depth IN (M)	Mineable Resource in (M ³)	Mining (Slope)+Geological Loss (2.0%) in (M ³)	Net Mineable Mineral in(M ³)
+164	22920	6.0	137520	2750	134770
+158	15695	6.0	94170	1883	92287
+152	8784	6.0	52704	1054	51650
+148	4009	6.0	24054	481	23573
TOTAL IN (M³)					302280

TOTAL IN (MT)			906840
TOTAL BLACK STONE RESERVE (INDICATED+INFERRED)			
Total Project Area In(M ²)	Indicated Reserve In (MT)	Inferred Reserve In(MT)	Geological Reserve In(MT)
41925	3244995	2515500	5760495

3.11.3. Deliberations by the committee in previous meetings

N/A

3.11.4. Deliberations by the SEAC in current meetings

<ul style="list-style-type: none"> The PP did not appear before the SEAC for EC presentation. The SEAC decided that the PP should explain the reasons for its absence. If the reasons are found to be satisfactory, the PP may be allowed to present its case in a subsequent meeting.

3.11.5. Recommendation of SEAC

Deferred for PP not attending the meeting

3.12. Agenda Item No 12:

3.12.1. Details of the proposal

Kota Sand Mine by RAINBOW INFRASTRUCTURE & HOUSING DEVELOPMENT LTD located at BIRBHUM, WEST BENGAL			
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
SIA/WB/MIN/460898/2024	2N-406/2023(E)	03/02/2024	Mining of minerals (1(a))

3.12.2. Project Salient Features

<ul style="list-style-type: none"> This is a proposal for riverbed sand mining at the Bir/Dubrajpur/Kota/145/2016 sand block over an extent of 3.33 ha (8.23 Acres) on the river Ajay at plot no: 3322(P), 3451(P), J.L. No.-158, Mouza: Kota, P.S.: Dubrajpur, District: Birbhum, West Bengal. The project is falling within the DSR potential zone code PO_BH_DJ_AJ_29. As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan & Progressive Mine Closure Plan' prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 28.02.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.

- The revised production details as per the DSR uploaded by the PP is given below :-

Total Area In Heet	Total Area In Sqm	Mineable Area In Heet	Mineable Area In Sqm	Geological Reserve In Cubic Meter	Average Thickness In M	Mineable Reserves In Cubic Meter
3.33	33000	2.9047	29047	99000	3	87141

Year	Geological reserve (m3)	Mineable (m3)	Replenishment in each year (97.9% considered in DSR)
1	99000	87141	85311.04
2	99000	87141	85311.04
3	99000	87141	85311.04
4	99000	87141	85311.04
5	99000	87141	85311.04

3.12.3. Deliberations by the committee in previous meetings

N/A

3.12.4. Deliberations by the SEAC in current meetings

- Based on the submission and presentation made by the PP, the committee observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Birbhum district.
- The SEAC scrutinized the documents submitted by the PP in the 28th SEAC meeting held on 07.02.2024 and after careful consideration and detailed deliberation the committee **recommended the proposed project for Environmental Clearance** with the conditions that the following should be submitted along with the six monthly compliance report :-
 - Monthly monitoring of base flow level at four points of the project should be conducted by installing piezometer and to be reported in the six monthly compliance report.
 - Stipulated plantation should preferably be done adjacent to the project. If not possible due to unavailability of suitable land, plantation may be done at other location in the same block. The particular plantation area should be dedicated and marked for the particular project and to be certified by the respective BDO.
 - Sieve analysis report for grain size distribution should be provided along with six monthly compliance report.
 - Status of the need-based activities to be reported during six monthly progress report.
 - Basic amenities, safety and occupational health examinations for labourers to be provided along with six monthly compliance reports.
 - To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the

plant selected should be self-sustaining in that particular region. Geotagged photographs of actual plantation done to be submitted along with six monthly compliance reports.

7) Studies on the biotic components of the river and the impact of sand mining on these components should be submitted.

8) Bank line monitoring report should be submitted along with the six-monthly progress reports.

3.12.5. Recommendation of SEAC

Recommended

3.12.6. Details of Environment Conditions

3.12.6.1. Specific

Additional conditions imposed by SEAC -

1.	<ol style="list-style-type: none"> 1) Monthly monitoring of base flow level at four points of the project should be conducted by installing piezometer and to be reported in the six monthly compliance report. 2) Stipulated plantation should preferably be done adjacent to the project. If not possible due to unavailability of suitable land, plantation may be done at other location in the same block. The particular plantation area should be dedicated and marked for the particular project and to be certified by the respective BDO. 3) Sieve analysis report for grain size distribution should be provided along with six monthly compliance report. 4) Status of the need-based activities to be reported during six monthly progress report. 5) Basic amenities, safety and occupational health examinations for labourers to be provided along with six monthly compliance reports. 6) To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Geotagged photographs of actual plantation done to be submitted along with six monthly compliance reports. 7) Studies on the biotic components of the river and the impact of sand mining on these components should be submitted. 8) Bank line monitoring report should be submitted along with the six-monthly progress reports.
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3.12.6.2. Standard

1(a)	Mining of minerals
Air quality monitoring and mitigation measure	
1.	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
1.	Transportation of coal, to the extent if permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed

	by the Central/State Pollution Control Board.
1.	Major approach roads shall be black topped and properly maintained.
1.	PP to install solar lights along the road used for transportation of coal to avoid the accidents at night and also seek its maintenance.
1.	The transportation of coal shall be carried out as per the provisions and route proposed in the approved mining plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed that the impact of sound, dust and accidents could be appropriately mitigated.
1.	Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
1.	Post environmental closure third party monitoring by reputed instituted in air quality, water, land & soil etc shall be carried out and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to IRO, MoEF&CC for compliance. The data used for analysis shall be obtained from continuous AQMS, site specific water regime. Also third party shall analyses the implementation of river diversion, meeting to the requirement of project report.
1.	PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
1.	Adequate number of Fog canon (mist sprayer) shall be installed to reduce the impact of air pollution at dust generating sources with time bound action plan.
1.	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.
1.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Online ambient air quality monitoring station/stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB
1.	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.

Corporate Environment Responsibility

1.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
1.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
1.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other

	purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
1.	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
1.	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non- compliance or infringement should be reported to the concerned authority
Land Recalvation	
1.	Native tree species shall be selected and planted over areas affected by subsidence.
1.	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
1.	Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
1.	Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
1.	Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.
1.	A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
1.	Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine.
1.	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.
Mining Plan	
1.	Tranportation by Railway Siding shall be developed to avoid transportation by Road
1.	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
1.	5- Star Rating is mandatory to obtaine certification as per guidelines of Mininstry of Coal

1.	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
1.	No change in mining method i.e. UG to OC, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
1.	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
1.	Underground work place environmental conditions shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
1.	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.
Miscellaneous	
1.	Compensation of the land acquired for the project shall be settled as per the R&R Policy. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
1.	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
1.	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours
1.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
1.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
1.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
1.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
1.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
1.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the

	Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
1.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.
1.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
1.	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
1.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
1.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
1.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
1.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
1.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
Noise and Vibration monitoring and prevention	
1.	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.
1.	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
Public hearing and Human health issues	
1.	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
1.	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
1.	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.
1.	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.

1.	Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
1.	Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
1.	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.
1.	PP to conduct need based assessment survey of the area to for in order to decide the activities to be carried under the CSR and to provide detail of the activity carried out with adequate budgetary provision and time bound action plan.
1.	PP should conduct epidemiology study to (analysis of the distribution, patterns and determinants of health and disease conditions in defined populations).
1.	Permanent Health care facilities of Hospital should be established within 5 km of project boundary for the local people.
1.	PP must ensure an emergency action plan during pandemic in order to provide assistance to the nearby villages located within the 10 km radius buffer zone (If required)
1.	PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone with time bound action plan
1.	PP to take measure for installation of Renewable Energy sources in nearby area falling within 10 km radius
Statutory compliance	
1.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
1.	The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project
1.	Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein
1.	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
1.	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
1.	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
1.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority
1.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.

1.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).
1.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
Water quality monitoring and mitigation measures	
1.	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.
1.	Monitoring of water quality upstream and downstream of river including ponds, lakes, tanks shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
1.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
1.	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
1.	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
1.	No obsolete technologies for sewage treatment shall be implemented. Construction of Sewage Treatment Plant with latest technology should be completed within 2 years and treated water shall be reused for plantation. CTE and CTO of STP shall be obtained as per the norms.
1.	Domestic water shall be providing to the residents/villages which are coming under the zone of influence of the project due to ground water extraction by installing a RO plant with proper supply line and Taps within 2 years
1.	The project proponent shall take all precautionary measures to ensure reversion/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A reversion /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
1.	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
1.	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
1.	Industrial waste water from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of

	workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste water.
1.	The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
1.	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff
1.	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.

4. Any Other Item(s)

N/A

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Dr Rajesh Kumar IPS	Member Secretary, SEAC	ms.*****@bangla.gov.in	Present
2	Prof Anirban Gupta	Chairman, SEAC	gup*****@hotmail.com	Present
3	Prof Dr Indranath Sinha	SEAC MEMBER	ind*****@gmail.com	Present
4	Aniruddha Mukhopadhyay	SEAC MEMBER	amc*****@gmail.com	Present
5	Pradip Kumar Sikdar	SEAC MEMBER	pra*****@gmail.com	Present
6	Sampa Chakrabarti	SEAC MEMBER	sam*****@gmail.com	Present
7	Suchandra Bardhan	SEAC MEMBER	suc*****@gmail.com	Present
8	Subhendu Bandopadhyay	SEAC MEMBER	shu*****@gmail.com	Present

Minutes of the 28th meeting of the State Level Expert Appraisal Committee, West Bengal (2023-2026) held on February 7, 2024 at 14:00 hr at the Conference Room, Paribesh Bhawan, Bidhannagar.

The 28th meeting of the State Level Expert Appraisal Committee (SEAC), West Bengal (2023-2026) was held on Wednesday the 07th February, 2024 at 14:00 hr at the Conference Room, Paribesh Bhawan, Bidhannagar. The following members participated:

1)	Dr. Rajesh Kumar, IPS	Secretary, SEAC	Present
2)	Prof. (Dr.) Anirban Gupta	Chairman, SEAC	Present
3)	Prof. Sampa Chakraborty	Member, SEAC	Present
4)	Prof. (Dr.) Suchandra Bardhan	Member, SEAC	Present
5)	Prof. (Dr.) Pradip Kumar Sikdar	Member, SEAC	Present
6)	Prof. (Dr.) Indranath Sinha	Member, SEAC	Present
7)	Prof. (Dr.) Aniruddha Mukhopadhyay	Member, SEAC	Present
8)	Shri Shubhendu Bandyopadhyay	Member, SEAC	Present

1) TECHNICAL PRESENTATIONS

1.1) For Environmental Clearance

1.1.1) Industry Sector:

- I. **Proposed Ethanol / Extra Neutral Alcohol (ENA) Manufacturing Plant and 4.9 MW Co-generation Power Plant at J.L No. 93, Malda Industrial Growth Centre (Phase II), Opp. Jubilee Petrol Pump, Vill – Mandilpur, P. O. - Narayanpur, P. S. – Malda, West Bengal, PIN– 732141.**

Proposal No.: SIA/WB/IND2/441212/2023
Project Proponent: M/s. Gujarat Ambuja Exports Ltd.
Environmental Consultant: M/s. Ultra-Tech.

Activities:

- This is a proposal for a green-field project for producing Ethanol/ Extra Neutral Alcohol (ENA) at a rated capacity of 180 KLPD along with a 4.9 MW co-generation power plant. Total land area of the project is 3.407 ha (8.42 acre).

Salient Features of the project:

- Salient features of the proposed project as uploaded by the PP in the PARIVESH portal is as below –

Location of the project	J.L No. 93, Malda Industrial Growth Centre, Phase II, Opp. Jubilee Petrol Pump, Vill – Mandilpur, P. O. – Narayanpur, P. S. – Malda, West Bengal, Pin– 732141.
Latitude & Longitude	Latitude: 25° 3'53.51"N

	Longitude: 88° 8'58.83"E				
Land Area	8.42 acres				
Green Area	3.00 Acres (35.66%)				
Manpower	Administrative: 65 Contractual: 25 Total: 90				
Area Break-Up Details	Sl. No.	Description	Area		%
			In Sqm.	In Acre	
	1.	Plant Shed & Covered Area	10989	2.72	32.24
	2.	Greenbelt Area	12155	3.00	35.66
	3.	Parking Area	234	0.06	0.69
	4.	Road Area	994	0.25	2.92
	5.	Open Area	9716	2.40	28.50
	Total Plot Area		34088	8.42	100.00
Product & Installation Details	Name of the Product			Production Capacity	
	Major Product				
	Extra Neutral Alcohol (ENA)/Ethanol			180 KLD	
	Power Generation			4.9 MW	
	By-Products				
	Dried Distillers Grains with Soluble (DDGS)			110 TPD	
	CO ₂			90 TPD	
List of Major Plant Machineries	S.N.	Description	Capacity	Quantity	
	Grain Silo				
	1.	Grain Pre- Cleaner	15 TPH	1 no.	
	2.	Galvanized Corrugated Silo	3000 MT	2 nos.	
	Grain Mil				
	3.	Grinding Mill	10 TPH	2 nos.	
	4.	Silo	25 MT	2 nos.	
	Liquefaction Section				
	5.	Liquefaction Tank	110 m3	1 no.	
	Yeast Propagation System and Fermentation Section				
	6.	Culture Vessel – I, II & III	1.3 m3	1 no. each	
	7.	Fermenters	650 m3	3 nos.	
	Alcohol Storage Section				
	8.	Absolute alcohol Storage Tank with vent condenser & flame arrestors	1000 m3	2 nos.	
	For Captive Power plant				
9.	Steam Boiler	55 TPH	1 no.		

	10.	Steam Turbine	4.9 MW	1 no.																								
Total Water requirement	2204 KLD																											
Daily Fresh Water Requirement	1054 KLD																											
Total Waste Water Recycled	1150 KLD																											
Source	Ground water supply																											
Industrial waste generation	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Industrial waste</th> <th>Quantity (TPM)</th> </tr> </thead> <tbody> <tr> <td colspan="3">Solid Waste</td> </tr> <tr> <td>1.</td> <td>Fly Ash from Boiler</td> <td>506</td> </tr> <tr> <td>2.</td> <td>Yeast Sludge</td> <td>54</td> </tr> <tr> <td>3.</td> <td>CPU Sludge</td> <td>1.5</td> </tr> <tr> <td>4.</td> <td>DDGS</td> <td>3025</td> </tr> <tr> <td colspan="3">Hazardous Waste</td> </tr> <tr> <td>1.</td> <td>Steam Turbine Oil Waste</td> <td>49 L</td> </tr> </tbody> </table>				Sl. No.	Industrial waste	Quantity (TPM)	Solid Waste			1.	Fly Ash from Boiler	506	2.	Yeast Sludge	54	3.	CPU Sludge	1.5	4.	DDGS	3025	Hazardous Waste			1.	Steam Turbine Oil Waste	49 L
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Hazardous Waste																												
1.	Steam Turbine Oil Waste	49 L																										
Power	Estimated power consumption: 4.9 MW Source: Captive																											
Backup power	1 x 1250 kVA D.G Set																											
Steam Requirement	53.725 TPH																											
Project cost (Rs)	Rs.125 Crores																											

Chronology of the Events:

- The PP applied in prescribed format for Terms of Reference (ToR) (Proposal No. SIA/WB/IND2/72658/2022) and uploaded the application in the PARIVESH portal on 26.02.2022.
- The project obtained ToR issued by SEIAA, WB vide No. 889/EN/T-II-I/019/2022 dated 18.05.2022.
- PP applied in PARIVESH portal on 20.06.2022 for amendment in ToR (proposal No SIA/WB/IND2/277592/2022) for addition of 4.9 MW Captive Power Plant along with the proposed ENA Plant.
- Amended ToR issued by SEIAA vide letter No.1945/EM/T-II-I/019/2022 dated 16.09.2022.
- Public Hearing was conducted by WBPCB on 27.02.2023.
- The PP applied in prescribed format for Environmental Clearance and uploaded final EIA report for the proposed project in the PARIVESH portal on 31.01.2024.
- The PP was called for the EC presentation in the 28th meeting of SEAC, WB (2023-2026) held on 07.02.2024 and the PP presented their proposal in the meeting.

SEAC Observations and Recommendations:

- Based on the application made, documents uploaded / submitted, and the presentation made by the PP/Consultant, the SEAC made the following observations:-

Mandatory documents

- 1) The sanctioned plan should indicate the area for raw water treatment plant and DM (de-mineralization) plant.
- 2) Revised hydrogeological study as discussed in the meeting. Impact of abstraction on the groundwater system should be stated. Sub-surface lithology with colour of the sediments should be submitted.
- 3) Measures adopted for mitigation of environmental pollution due to stacking and handling of coal/ rice husk.
- 4) Material Safety Data Sheets (MSDS) containing information on the potential hazards (health, fire, reactivity and environmental) and proposed safety measures including safe operating procedures to be adopted.
- 5) Details of all the compounds to be generated from distillation (rectification & analyser columns).
- 6) Details of process for producing ENA from alcohol.
- 7) Emission control system to be adopted for the milling operations.
- 8) Disposal of sludge and backwash water generated from the water treatment plant, both of which may contain excess arsenic as the locality has arsenic contamination in groundwater.

Solid waste

- 9) Analysis of boiler ash, especially for silica, should be provided.
- 10) Analysis of the DDGS before using for cattle feed.

Green Belt Development

- 11) No. of trees to be planted around the periphery should be 4000 plus to cover 35% of the project site @ 1500 nos. per hectare in three tiers.

Water and waste water

- 12) Analysis of raw water and treated raw water are to be furnished.
- 13) Details of the DM plant, if provided for the boiler, to be submitted.
- 14) The RO treated water should be used only for the process and not for plantation or dust suppression.
- 15) Details of water sprinkling to be done outside the project area. Control measures for reduced dust generation during col handling may be submitted.
- 16) Plan for safe disposal of any backwash water or spent regenerant, generated from the water treatment plant, both of which may contain excess arsenic as the locality has arsenic contamination in groundwater. Disposal of RO reject may be mentioned with the expected quality of the RO reject.
- 17) Depth of wells monitored for groundwater quality to be submitted. Permanent piezometer needs to be installed and reporting of the groundwater level with periodical compliance reports.
- 18) Report of Manganese concentration in groundwater should be submitted.

The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

1.2) For Environmental Clearance

1.2.1) Mining of Minerals (Other than sand)

- I. **Proposed Taladih Blackstone Mine over an area of 4.621 ha at JL No -209, Plot No - 164(P), Mouza – Taladih, Block & P.S. – Barabazar, Subdivision – Manbazar, District – Purulia, West Bengal.**

Proposal No.: SIA/WB/MIN/457400/2024
Project Proponent: Shri Jharlal Singh.
Environmental Consultant: Not mentioned.

Activity:

- This is a proposal for Taladih Blackstone Mine over an area of 4.621 ha at JL No -209, Plot No -164(P), Mouza – Taladih, Block & P.S. – Barabazar, Subdivision – Manbazar, District – Purulia, West Bengal.
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan with Progressive Mine Closure Plan' for black stone mining at the site prepared by an RQP. The Plan has been approved by the State Government on 11.01.2024 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

BLACKSTONE										
Year	RL		Average Area	Height	Volume	Specific Gravity	Tonnage	Production Of Blackstone (Tonnes)	Mining Loss	Extractable Reserves (Tonnes)
	FROM (M)	To (M)								
1 ST YEAR	226.83	224	23185	2.83	65613.55	2.84	186342	214458	2%	210169
	224	218	1650	6	9900	2.84	28116			
2 ND YEAY	224	218	20200	6	121200	2.84	344208	456859	2%	447722
	218	212	6616	6	39666	2.84	112651.44			
3 RD YEAR	218	212	12660	6	75960	2.84	215728	452832	2%	443776
	212	210	16502	2	33004	2.84	93731			
	210	206	12621	4	50484	2.84	143375			
4 TH YEAR	210	206	12651	4	50604	2.84	143715.36	451338	2%	442312
	206	200	18053	6	108318	2.84	307623.1			
5 TH YEAR	206	200	5200	6	31200	2.84	88608	463335	2%	454068
	200	194	21991	6	131946	2.84	374727			
TOTAL					717895.55		2038822.9	2038822		1998047

- The PP has uploaded pre-feasibility report for the proposed project.
- The PP has uploaded valid Letter of Intent from the competent authority. **Lease has been granted for five years.**

- The PP has uploaded non-cluster certificate from the competent authority. **The mine block is not forming cluster with any adjacent mining lease.**
- The PP has submitted the requisite EC processing fees as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.

Chronology of Events:

- The PP applied in prescribed format for Environmental Clearance and uploaded the application in the PARIVESH portal on 18.01.2024.
- The PP was called for the EC presentation in the 28th meeting SEAC, WB (2023-2026) held on 07.02.2024 and the PP presented their EC presentation.

SEAC Observations and Recommendations:

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **does not fall within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purulia district.

Recommendation: Considering the above, the SEAC recommended that the present proposal may be rejected.

II. Proposed Deep Black Stone Project over an area of 4.223 ha (10.44 acre) at Mouza: Mouchuria, JL No.: 111, Plot No.: 35(P), Block: Saltora, District: Bankura, West Bengal.

Proposal No.: SIA/WB/MIN/457957/2024
Project Proponent: Shri Sarandeep Saini.
Environmental Consultant: M/s. P and M Solutions.

Activity:

- This is a proposal for Deep Black Stone Project over an area of 4.223 ha (10.44 acre) at Mouza: Mouchuria, JL No.: 111, Plot No.: 35(P), Block: Saltora, District: Bankura, West Bengal.
- **The project is falling within the DSR potential zone code BNK_BS_ZONE_1.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan with Progressive Mine Closure Plan' for black stone mining at the site prepared by an RQP. The Plan has been approved by the State Government on 27.09.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

Average RL Wise in (M)	RL. Wise Net Mineable Area in (M2)	RL. Wise Depth IN(M)	Mineable Resource in (M ³)	Mining (Slope)+Geological Loss (2.0%) in (M ³)	Net Mineable Mineral in(M ³)
+164	22920	6.0	137520	2750	134770
+158	15695	6.0	94170	1883	92287
+152	8784	6.0	52704	1054	51650
+148	4009	6.0	24054	481	23573

TOTAL IN (M ³)	302280
TOTAL IN (MT)	906840

TOTAL BLACK STONE RESERVE (INDICATED+INFERRED)

Total Project Area In(M ²)	Indicated Reserve In (MT)	Inferred Reserve In(MT)	Geological Reserve In(MT)
41925	3244995	2515500	5760495

- The PP has uploaded pre-feasibility report for the proposed project.
- The PP has uploaded valid Letter of Intent from the competent authority. **Lease has been granted for ten years.**
- The PP has uploaded non-cluster certificate from the competent authority. **The mine block is not forming cluster with any adjacent mining lease.**
- The PP has submitted the requisite EC processing fees as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.

Chronology of Events

- The PP applied in prescribed format for Environmental Clearance and uploaded the application in the PARIVESH portal on 12.01.2024.
- The PP was called for the EC presentation in the 28th meeting SEAC, WB (2023-2026) held on 07.02.2024.

SEAC Observations and Recommendations:

- The PP did not appear before the SEAC for EC presentation. The SEAC decided that the PP should explain the reasons for its absence. If the reasons are found to be satisfactory, the PP may be allowed to present its case in a subsequent meeting.

III. Proposed Bamnishala Blackstone Mine over an area of 1.287 ha (3.180 acres) at Plot No. 60, 82 & 91, JL No. 98, PS & Block – Saltora, District – Bankura, West Bengal.

Proposal No.:

SIA/WB/MIN/457717/2024

Project Proponent:

Shri Dibyendu Mondal.

Environmental Consultant:

**M/s. Centre for Envotech and Management
Consultancy Private Limited.**

Activity:

- This is a proposal for Bamnishala Blackstone Mine over an area of 1.287 ha (3.180 acres) at Plot No. 60, 82 & 91, JL No. 98, PS & Block - Saltora, District - Bankura, West Bengal.
- **The project is falling within the DSR potential zone code BNK_BS_ZONE_1.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan including Mine Closure Plan' for black stone mining at the site prepared by an RQP. The Plan has been approved by the State Government on 12.12.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.

- The production details as mentioned in the Mining Plan is given below :-

Year	RL		Average Area	Height (M)	Volume (Cum)	Bulk Density	Tonnage	Mineable Reserve (Mt)	Mining Loss	Extractable Reserve (Mt)
	From(M)	To (M)								
1 st	148	147	8747.57	1	8747.57	2.83	24755.62	0.025	2%	0.024
2 nd	147	141	7851.84	6	47111.05	2.83	133324.28	0.133		0.131
3 rd	141	135	6703.45	6	40220.70	2.83	113824.57	0.210		0.205
		135	5637.59	6	33825.57	2.83	95726.36			
4 th	129	12	4656.54	6	27939.27	2.83	79068.13	0.079		0.077
5 th	123	118	3749.97	5	18749.85	2.83	53062.06	0.053	0.052	
Total								0.50		0.49

- The PP has uploaded pre-feasibility report for the proposed project.
- The PP has uploaded valid Letter of Intent from the competent authority. Lease has been granted for five years.
- The PP has uploaded non-cluster certificate from the competent authority. **The mine block is not forming cluster with any adjacent mining lease.**
- The PP has submitted the requisite EC processing fees as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.

Chronology of Events

- The PP applied in prescribed format for Environmental Clearance and uploaded the application in the PARIVESH portal on 10.01.2024.
- The PP was called for the EC presentation in the 28th meeting SEAC, WB (2023-2026) held on 07.02.2024 and the PP presented their EC presentation.

SEAC Observations and Recommendations:

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Bankura district.
- However, the SEAC made the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration :-
 - Revised project cost (with details) for the project considering the current land valuation.
 - Distance of the project from any Protected Areas notified under the Wild Life (Protection) Act, 1972 (53 of 1972) or eco-sensitive areas as notified under sub-section (2) of section 3 of the Environment (Protection) Act, 1986, to be certified from the competent authority.
 - Drone survey of the area.
 - Traffic management plan.
 - Impact of explosives on local flora, fauna and ground water.

- 6) Need based EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Consents from the beneficiaries of the social part of EMP should be furnished.
- 7) A Progressive Greenbelt Plan should be submitted. Afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life.
- 8) Plan and section of the mine as given in the approved Mine Plan should be submitted.
- 9) Details of occupational health measures to be adopted for the workers employed for the project.
- 10) A document related to replenishment was uploaded, that should be removed.

Recommendation: The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

IV. Proposed Dhatala Blackstone Mining Project over an area of 1.436 ha. (3.55 acres) at J.L. No.-115, Plot Nos- 626, 661, Mouza – Dhatala, PS & Block – Saltora, Dist – Bankura, West Bengal.

Proposal No.: SIA/WB/MIN/457147/2023
Project Proponent: Shri Dinesh Mondal.
Environmental Consultant: M/s. Centre for Envotech and Management Consultancy Private Limited.

Activity:

- This is a proposal for Dhatala Blackstone Mining Project over an area of 1.436 ha. (3.55 acres) at J.L. No.-115, Plot Nos- 626, 661, Mouza – Dhatala, PS & Block – Saltora, Dist – Bankura, West Bengal.
- **The project is falling within the DSR potential zone code BNK_BS_ZONE_1.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan including Mine Closure Plan' for black stone mining at the site prepared by an RQP. The Plan has been approved by the State Government on 09.10.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

Year	RL		Average Area	Height (M)	Volume (Cum)	In-situ Density	Tonnage	Mineable Reserve (Mt)	Miner's Loss	Extractable Reserve (Mt)
	From	To (M)								

	(M)									
1 st	148	145	8478.6148	3	25435.8444	2.84	72237.798	0.072	2%	0.071
2 nd	145	139	7097.2864	6	42583.7184	2.84	120937.760	0.121	2%	0.119
3 rd	139	133	5399.6796	6	32398.0776	2.84	92010.540	0.092	2%	0.090
4 th	133	127	4409.1428	6	26454.8568	2.84	75131.793	0.075	2%	0.074
5 th	127	121	3269.7534	6	19618.5204	2.84	55716.598	0.056	2%	0.055
								0.416		0.408

- The PP has uploaded pre-feasibility report for the proposed project.
- The PP has uploaded valid Letter of Intent from the competent authority. **Lease has been granted for five years.**
- The PP has uploaded non-cluster certificate from the competent authority. **The mine block is not forming cluster with any adjacent mining lease.**
- The PP has submitted the requisite EC processing fees as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.

Chronology of Events

- The PP applied in prescribed format for Environmental Clearance and uploaded the application in the PARIVESH portal on 04.01.2024.
- The PP was called for the EC presentation in the 28th meeting SEAC, WB (2023-2026) held on 07.02.2024 and the PP presented their EC presentation.

SEAC Observations and Recommendations:

- Based on the submission and presentation made by the PP, the SEAC observed that **the plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Bankura district.
- However, the SEAC made the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration :-
 - 1) Revised project cost (details) for the project considering the current land valuation.
 - 2) Drone survey of the area.
 - 3) Traffic management plan.
 - 4) Impact of explosives on local flora, fauna and ground water.
 - 5) Need based EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Consents from the beneficiaries of the social part of EMP should be furnished.
 - 6) A Progressive Greenbelt Plan should be submitted. Afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life.

- 7) Plan and section of the mine as given in the approved Mine Plan should be submitted.
- 8) Details of occupational health measures to be adopted for the workers employed for the project.
- 9) A document related to replenishment was uploaded, that should be removed.

Recommendation: The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

1.2.2) Mining of Minerals Sector

- I. Proposed Naratambati Sand Mine over an area of 3.16 ha (7.82 Acres) on the Dwarakeshwar river at Plot No: 2502(P), J.L. No.: 136, Mouza: Naratambati, P.S.-Madhabdihi, Block - Raina-II, Dist - Purba Bardhaman, West Bengal.

Proposal No.: SIA/WB/MIN/457781/2024
 Project Proponent: M/s. Rakshakali Supply (Prop. Sri Susanta Dutta).
 Environmental Consultant: M/s. Chaitanya Projects Consultancy Private Limited.

Activity:

- This is a proposal for riverbed sand mining at the RAINA-II/NARATAMBATI/2502(P)/B sand block over an extent of 3.16 ha (7.82 Acres) on the Dwarakeshwar river at Plot No: 2502(P), J.L. No.: 136, Mouza: Naratambati, P.S.-Madhabdihi, Block - Raina-II, Dist - Purba Bardhaman, West Bengal.
- **The project is falling within the DSR potential zone code PBD_RN2_DW_04.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan' prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 30.11.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The revised production details as per the DSR uploaded by the PP is given below :-

Total Area (ha)	Safety Zone (ha)	Production Area (ha)	Thickness (M)
3.16	0.62	2.54	3.00

Year	Total Area (ha)	Thickness (M)	Replenishment Rate	Geological Resource (Cu.M)
1	3.16	3.00	100%	94800
2	3.16	2.346	78.20%	74133.6
3	3.16	2.346	78.20%	74133.6
4	3.16	2.346	78.20%	74133.6

5	3.16	2.346	78.20%	74133.6
Total Geological Resource				391334.4

Year	Total Area (ha)	Thickness (M)	Replenishment Rate	Mineable Reserve (Cu.M)
1	2.54	3.00	100%	76200
2	2.54	2.346	78.20%	59588.4
3	2.54	2.346	78.20%	59588.4
4	2.54	2.346	78.20%	59588.4
5	2.54	2.346	78.20%	59588.4
Total Mineable Reserve (Cu.M)				314553.6
Total Mineable Reserve (C.Ft.)				1.11 cr cft

- The PP has uploaded pre-feasibility report for the proposed project.
- The **PP has not uploaded valid Letter of Intent from the competent authority.**
- The PP has uploaded non-cluster certificate from the competent authority. **The mine block is not forming cluster with any adjacent mining lease.**
- The **PP has not submitted the requisite EC processing fees** as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.
- The PP has submitted need-based EMP for the project.

Chronology of Events:

- The PP applied in prescribed format for Environmental Clearance and uploaded the application in the PARIVESH portal on 05.01.2024.
- The PP was called for the EC presentation in the 28th meeting SEAC, WB (2023-2026) held on 07.02.2024 and the PP presented their EC presentation.

SEAC Observations and Recommendations:

- Based on the submission and presentation made by the PP, the committee observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- However, the SEAC made the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration :-
 - 1) Valid Lol from the competent authority.
 - 2) Requisite EC processing fees as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.
 - 3) Specific need based EMP indicating the beneficiaries.
 - 4) Study of aquatic flora and fauna, including planktons.

Recommendation: The SEAC recommended that the above documents may be submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

II. Proposed Purbator Sand Mine over an area of 4.54 ha. (11.21 acres) on the Damodar River at Mouza- Purbator, J.L. No.- 67, Plot No.-970(P), Block & P.S. - Mejhia, District- Bankura, West Bengal.

Proposal No.: SIA/WB/MIN/458081/2024
Project Proponent: Shri Santosh Chourasia.
Environmental Consultant: M/s. Ambiental Global Private Limited.

Activity:

- This is a proposal for riverbed sand mining at the 0105DM018 sand block over an extent of 4.54 ha. (11.21 acres) on the Damodar River at Mouza- Purbator, J.L. No.- 67, Plot No.-970(P), Block & P.S. - Mejhia, District- Bankura, West Bengal.
- **The project is falling within the DSR potential zone code PO_BNK_DA_MJ_11_12_13_14_15_16_17.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan & Progressive Mine Closure Plan' prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 16.10.2020 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The revised production details as per the DSR uploaded by the PP is given below :-

Years	Production			
	Cum. per year	Tons per year	Tons per day	Cum./Day
1 st *	108996	206002.44	1030.01	544.98
2 nd *	108996	206002.44	1030.01	544.98
3 rd *	108996	206002.44	1030.01	544.98
4 th *	108996	206002.44	1030.01	544.98
5 th *	108996	206002.44	1030.01	544.98

*The production in the subsequent year may vary based on Replenishment of Sand in the River bed.

- The PP has uploaded pre-feasibility report for the proposed project.
- The PP has uploaded valid Letter of Intent from the competent authority.
- The PP has uploaded non-cluster certificate from the competent authority. **The mine block is not forming cluster with any adjacent mining lease.**
- The PP has submitted the requisite EC processing fees as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.

- The PP has not submitted need-based EMP for the project.

Chronology of Events

- The PP applied in prescribed format for Environmental Clearance and uploaded the application in the PARIVESH portal on 09.01.2024.
- The PP was called for the EC presentation in the 28th meeting SEAC, WB (2023-2026) held on 07.02.2024.

SEAC Observations and Recommendations:

- The PP did not appear before the SEAC for EC presentation. The SEAC decided that the PP should explain the reasons for its absence. If the reasons are found to be satisfactory, the PP may be allowed to present its case in a subsequent meeting.

III. Proposed Kota Sand Mine over an area of 3.33 ha (8.23 Acres) on the river Ajay at plot no: 3322(P), 3451(P), J.L. No.-158, Mouza: Kota, P.S.: Dubrajpur, District: Birbhum, West Bengal.

Proposal No.:

SIA/WB/MIN/460898/2024

Project Proponent:

M/s. Rainbow Infrastructure & Housing Development Ltd.

Environmental Consultant:

M/s. Chaitanya Projects Consultancy Private Limited.

Activity:

- This is a proposal for riverbed sand mining at the Bir/Dubrajpur/Kota/145/2016 sand block over an extent of 3.33 ha (8.23 Acres) on the river Ajay at plot no: 3322(P), 3451(P), J.L. No.-158, Mouza: Kota, P.S.: Dubrajpur, District: Birbhum, West Bengal.
- The project is falling within the DSR potential zone code PO_BH_DJ_AJ_29.
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan & Progressive Mine Closure Plan' prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 28.02.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The revised production details as per the DSR uploaded by the PP is given below :-

Total Area In Heet	Total Area In Sqm	Mineable Area In Heet	Minable Area In Sqm	Geological Reserve In Cubic Meter	Average Thickness In M	Mineable Reserves In Cubic Meter
3.33	33000	2.9047	29047	99000	3	87141

Year	Geological reserve (m3)	Mineable (m3)	Replenishment in each year (97.9% considered in DSR)
1	99000	87141	85311.04
2	99000	87141	85311.04
3	99000	87141	85311.04
4	99000	87141	85311.04
5	99000	87141	85311.04

- The PP has uploaded pre-feasibility report for the proposed project.
- The PP has uploaded valid Letter of Intent from the competent authority.
- The PP has uploaded non-cluster certificate from the competent authority. **The mine block is not forming cluster with any adjacent mining lease.**
- The PP has submitted the requisite EC processing fees as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.
- The PP has submitted need-based EMP for the project.

Chronology of Events

- The PP applied in prescribed format for Environmental Clearance and uploaded the application in the PARIVESH portal on 03.02.2024.
- The PP was called for the EC presentation in the 28th meeting SEAC, WB (2023-2026) held on 07.02.2024 and the PP presented their EC presentation.

SEAC Observations and Recommendations:

- Based on the submission and presentation made by the PP, the committee observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Birbhum district.
- The SEAC scrutinized the documents submitted by the PP in the 28th SEAC meeting held on 07.02.2024 and after careful consideration and detailed deliberation the committee **recommended the proposed project for Environmental Clearance** with the conditions that the following should be submitted along with the six monthly compliance report :-
 - 1) Monthly monitoring of base flow level at four points of the project should be conducted by installing piezometer and to be reported in the six monthly compliance report.
 - 2) Stipulated plantation should preferably be done adjacent to the project. If not possible due to unavailability of suitable land, plantation may be done at other location in the same block. The particular plantation area should be dedicated and marked for the particular project and to be certified by the respective BDO.
 - 3) Sieve analysis report for grain size distribution should be provided along with six monthly compliance report.
 - 4) Status of the need-based activities to be reported during six monthly progress report.
 - 5) Basic amenities, safety and occupational health examinations for labourers to be provided along with six monthly compliance reports.
 - 6) To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Geotagged photographs of actual plantation done to be submitted along with six monthly compliance reports.

- 7) Studies on the biotic components of the river and the impact of sand mining on these components should be submitted.
- 8) Bank line monitoring report should be submitted along with the six-monthly progress reports.

IV. Proposed Purbatore Sand Mine (MIN_BNK_62) over an area of 7.07 ha (17.47 Acre) on the Damodar River at Plot no. 970(P), JL No. 67, Mouza – Purbatore, PS – Mejhia, Dist – Bankura, West Bengal.

Proposal No.	SIA/WB/MIN/457264/2023
Project Proponent -	M/s. West Bengal Mineral Development And Trading Corporation Limited.
Environmental Consultant -	M/s. Indian Mine Planners & Consultants

Activities:

- This is a proposal for Purbatore Sand Mine (MIN_BNK_62) over an area of 7.07 ha (17.47 Acre) on the Damodar river at Plot no. 970(P), JL No. 67, Mouza – Purbatore, PS – Mejhia, Dist – Bankura, West Bengal.
- **The project is falling within the potential zone code BNK_DA_MJ_16_17.**
- The PP has obtained Provisional Grant Order for Sand Blocks vide Memo No. 187/ICE-12011(99)/27/2022-MINESSEC-Dept of ICE Dated 17/03/2023.
- The PP has uploaded non-cluster certificate from the competent authority. **The sand block is not forming cluster with any adjacent sand block.**
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan' prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 18.04.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

Geological Resource of the sand deposit.

YEAR	Total Area (ha)	Thickness	Replenishment Rate %	GR(Cum)
1	7.07	3.000	100%	212100.00
2	7.07	2.202	73.4	155681.40
3	7.07	2.202	73.4	155681.40
4	7.07	2.202	73.4	155681.40
5	7.07	2.202	73.4	155681.40
Total geological reserve (cum)				834825.60

Leaving aside the safety berms and barriers, and taking into account the rate of replenishment, the mineable reserves are estimated as below:

Mineable Reserve of the sand deposit.

YEAR	Total Area (ha)	Thickness	Replenishment Rate %	MR(Cum)
1	5.88	3.000	100%	176400.00

2	5.88	2.202	73.4	129477.60
3	5.88	2.202	73.4	129477.60
4	5.88	2.202	73.4	129477.60
5	5.88	2.202	73.4	129477.60
Total mineable reserve (cum)				694310.40
Total Mineable Reserve (C. Ft.)				2.452 Cr.

- The PP has submitted the requisite EC processing fees as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.
- The PP has submitted an undertaking regarding need-based EMP.

Chronology of Events :

- The PP applied in prescribed format for Terms of Reference and uploaded the application in the PARIVESH portal on 25.04.2023 (proposal no. SIA/WB/MIN/426819/2023).
- The PP obtained Terms of Reference issued by SEIAA vide No. 1421/EN-T-II-1/382/2023 dated 26.07.2023.
- Public Hearing was conducted by WBPCB on 21.11.2023.
- The PP applied for EC in prescribed format and uploaded final EIA report in the PARIVESH portal on 04.01.2024.
- The PP was called for the EC presentation in the 28th meeting of SEAC, WB held on 07.02.2024 and the PP presented their proposal in this meeting.

SEAC Observations and Recommendations:

- Based on the submission and presentation made by the PP, the committee observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Bankura district.
- The SEAC scrutinized the documents submitted by the PP in the 28th SEAC meeting held on 07.02.2024 and after careful consideration and detailed deliberation the committee observed that the PP has not submitted any specific reply to the additional points mentioned in the ToR especially the points f, g & h. Also, the coordinates mentioned in the Cluster Certificate, Mine Plan and Provisional Grant Order do not match. No details of plantation has been mentioned. Detailed study of aquatic life, including plankton has not been submitted.

Therefore, the SEAC recommended that the above documents should be rectified and submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

- V. Proposed Magh Riverbed Sand Block (MIN_PUR_15) over an area of 10.15 ha on the Subarnarekha river at Plot No. 1599(P), 1600(P), JL No. 45, Mouza – Magh, P.S.: Jhalda, Dist: Bankura, West Bengal.

Proposal No. SIA/WB/MIN/458258/2024
 Project Proponent - M/s. West Bengal Mineral Development And Trading Corporation Limited.
 Environmental Consultant - M/s. Indian Mine Planners and Consultants

Activities:

- This is a proposal for Magh Riverbed Sand Block (MIN_PUR_15) over an area of 10.15 ha (25.08 Acres) on the Subarnarekha River at J. L. No. – 45, Plot No. 1599(P) & 1600(P), Mouza – Magh, PS – Jhalda, Block – Jhalda-I, District – Purulia, West Bengal.
- The project is falling within the potential zone code PUR_JL_SR_07.
- The PP has obtained Provisional Grant Order for Sand Blocks vide Memo No. 04(I/301012/2022)-ICE-12011(99)/27/2022-MINES SEC-Dept of ICE Dated 03.01.2023.
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan with Progressive Mine Closure Plan' for riverbed sand mining at the site prepared by an RQP. The Plan has been approved by the State Government on 18.04.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP. The production details as mentioned in the Mining Plan is given below :-

Geological Resource of the sand deposit.

TOTAL AREA(Ha)	SAFETY ZONE(Ha)	PRODUCTION AREA (Ha)	THICKNESS(m)
10.15	1.42	8.73	1.5

Year	Total Area (ha)	Thickness	Replenishment Rate %	GR (cum)
1	10.15	1.5	100	152250
2	10.15	1.125	75	114187.5
3	10.15	1.125	75	114187.5
4	10.15	1.125	75	114187.5
5	10.15	1.125	75	114187.5
Total Geological Resource (cu.M)				609000
Total Geological Resource (Cr. Cft.)				2.15

Leaving aside the safety berms and barriers, and taking into account the rate of replenishment, the mineable reserves are estimated as below:

Mineable Reserve of the sand deposit.

Year	Total area (ha)	Thickness	Replenishment Rate %	MR (cum)
1	8.73	1.5	100	130950
2	8.73	1.42	75	98212.5
3	8.73	1.42	75	98212.5
4	8.73	1.42	75	98212.5
5	8.73	1.42	75	98212.5

Total Mineable Reserve (cum)	523800
Total Mineable Reserve (C.ft.)	1.84 Cr.Ft.

- The PP has submitted the requisite EC processing fees as required under Notification No 924/T-II-1/021/2022 dated 23.05.2022 issued by Department of Environment, Government of West Bengal.
- The PP has submitted an undertaking regarding need-based EMP.

Chronology of Events

- The PP applied in prescribed format for Terms of Reference and uploaded the application in the PARIVESH portal on 27.04.2023 (proposal no. SIA/WB/MIN/427185/2023).
- The PP obtained Terms of Reference issued by SEIAA vide No. 1420/EN-T-II-1/387/2023 dated 20.07.2023.
- Public Hearing was conducted by WBPCB on 10.11.2023.
- The PP applied for EC in prescribed format and uploaded final EIA report in the PARIVESH portal on 19.01.2024.
- The PP was called for the EC presentation in the 28th meeting of SEAC, WB held on 07.02.2024 and the PP presented their proposal in this meeting.

SEAC Observations and Recommendations:

- Based on the submission and presentation made by the PP, the committee observed that the plot area for the proposed project as per the geo-coordinates mentioned in the approved Mining cum Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purulia district.
- The SEAC scrutinized the documents submitted by the PP in the 28th SEAC meeting held on 07.02.2024 and after careful consideration and detailed deliberation the committee observed that the PP has not submitted any specific reply to the additional points mentioned in the ToR especially the points f, g & h. No details of plantation has been mentioned. Detailed study of aquatic life, especially, plankton has not been submitted.

Therefore, the SEAC recommended that the above documents should be rectified and submitted in the PARIVESH portal for further consideration of the application.

All the documents should be duly signed both by the project proponent and the environmental consultant.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries only through "PARIVESH" portal.

1.3) For Terms of Reference

1.3.1) Mining of Minerals Sector

- I. **Proposed Nischintapur Sand Mine over an area of 3.60 ha (8.89 Acres) on the river Kangshabati at Plot no: 1(P), 2(P), 3(P), 19(P) & 20(P), J.L. No.-48, Mouza: Nischintapur, P.S.: Medinipur, District: Paschim Medinipur, West Bengal.**

Proposal No.	SIA/WB/MIN/445195/2023
Project Proponent -	Shri Swapan Das Bhowmik.
Environmental Consultant -	M/s. Chaitanya Projects Consultancy Private Limited.

Activities:

- This is a proposal for Nischintapur Sand Mine of MSB-57 sand block over an area of 3.60 ha (8.89 Acres) on the river Kangshabati at Plot no: 1(P), 2(P), 3(P), 19(P) & 20(P), J.L. No.-48, Mouza: Nischintapur, P.S.: Medinipur, District: Paschim Medinipur, West Bengal.
- **The project is falling within the DSR potential zone code PO_PSM_MD_KS_10(XA).**
- The PP has uploaded the pre-feasibility report for the proposed project.
- The PP has uploaded the copy of valid LOI.
- **The PP has not uploaded cluster certificate from the competent authority.**
- The PP has submitted the need-based EMP.
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan' prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 17.08.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

Geological reserves of the sand deposit

Year	Total area (ha)	Thickness (m)	Replenishment rate (%)	Geological Reserve in (m ³)
1	3.60	2.50	100	90000
2	3.60	1.88325	75.33	67797
3	3.60	1.88325	75.33	67797
4	3.60	1.88325	75.33	67797
5	3.60	1.88325	75.33	67797
Total Geological resources				361188

Mineable reserves of the sand deposit

Year	Total area (ha)	Thickness (m)	Replenishment rate (%)	Mineable Reserve in (m ³)
1	3.00	2.50	100	75000
2	3.00	1.88325	75.33	56497.5
3	3.00	1.88325	75.33	56497.5
4	3.00	1.88325	75.33	56497.5
5	3.00	1.88325	75.33	56497.5
Total Mineable resources (Cu.M)				300990
Total Mineable resources (C.Ft)				1.063 cr cft

Chronology of the Events:

- The PP applied in prescribed format for Terms of Reference and uploaded the application in the PARIVESH portal on 30.01.2024.
- The PP was called for the ToR presentation in the 28th meeting of SEAC, WB held on 07.02.2024 and the PP presented their proposal in this meeting.

SEAC Observations and Recommendations:

- Based on the submission and presentation made by the PP, the SEAC observed that **the entire plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Paschim Medinipur district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 - 1) Cluster Certificate from the competent authority.
 - 2) Photographs of the site mentioning the geo-coordinates.
 - 3) Standard practice of management of the intermediate storage area should be submitted.
 - 4) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
 - 5) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
 - 6) A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
 - 7) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approvals.
 - 8) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
 - 9) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
 - 10) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.

- 11) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates.
- 12) A study report on base flow level measured at 4 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
- 13) Management plan including the final closure plan of haul road to be submitted.
- 14) Sieve analysis report for grain size distribution should be provided.
- 15) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

The PP shall, – while applying for environmental clearance, upload in the PARIVESH portal, the EIA/EMP report along with the documents / submissions / clarifications sought above.

All the documents should be duly signed both by the project proponent and environmental the consultant.

- II. **Proposed Kumirkola Sand Mine over an area of 4.91 ha (12.14 Acres) on river Damodar at plot no: 669(P), 670, 742, 750, 751(P) 752, 774, 775(P), 632(P), 779(P), 674(P), 660(P), 659, 673, 778, 672, 671, 749(P), 741(P), 606(P), J.L. No.-9, Mouza: Kumirkola, P.S. Khandaghosh, District: Purba Bardhaman, West Bengal.**

Proposal No.	SIA/WB/MIN/458570/2024
Project Proponent -	M/s. Packhorse Traders Private Limited.
Environmental Consultant -	M/s. Chaitanya Projects Consultancy Private Limited.

Activities:

- This is a proposal for Kumirkola Sand Mine of KHANDAGHOSH/KUMIRKOLA/669(P), ORS/B sand block over an area of 4.91 ha (12.14 Acres) on river Damodar at plot no: 669(P), 670, 742, 750, 751(P) 752, 774, 775(P), 632(P), 779(P), 674(P), 660(P), 659, 673, 778, 672, 671, 749(P), 741(P), 606(P), J.L. No.-9, Mouza: Kumirkola, P.S. Khandaghosh, District: Purba Bardhaman, West Bengal.
- **The project is falling within the DSR potential zone code PBBD_GL2_DA_05.**
- The PP has uploaded the pre-feasibility report for the proposed project.
- The PP has uploaded the copy of valid Lol.
- **The PP has not uploaded cluster certificate from the competent authority.**
- The PP has submitted the need-based EMP.
- As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan' prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 30.11.2023 and the approved plan has been uploaded at the PARIVESH portal by the PP.
- The production details as mentioned in the Mining Plan is given below :-

Reserves and year wise proposed production details

Total Area (ha)	Safety Zone (ha)	Production Area (ha)	Thickness (M)
4.75	0.70	4.05	2.88

Geological resource of the sand deposit

Year	Total Area (ha)	Thickness (M)	Replenishment Rate	Geological Resource (Cum)
1	4.75	2.88	100%	136800
2	4.75	2.16	75%	102600
3	4.75	2.16	75%	102600
4	4.75	2.16	75%	102600
5	4.75	2.16	75%	102600
TOTAL GEOLOGICAL RESOUCE				547200

Mineable Reserve of the sand deposit

Year	Total Area (ha)	Thickness (M)	Replenishment Rate	Mineable Reserve (Cum)
1	4.05	2.88	100%	116640
2	4.05	2.16	75%	87480
3	4.05	2.16	75%	87480
4	4.05	2.16	75%	87480
5	4.05	2.16	75%	87480
Total Mineable Reserve (Cu.M)				466560
Total Mineable Reserve (C.Ft.)				1.65 cr cft

Chronology of the Events:

- The PP applied in prescribed format for Terms of Reference and uploaded the application in the PARIVESH portal on 13.01.2024.
- The PP was called for the ToR presentation in the 28th meeting of SEAC, WB held on 07.02.2024 and the PP presented their proposal in this meeting.

SEAC Observations and Recommendations:

- Based on the submission and presentation made by the PP, the SEAC observed that **the entire plot area** for the proposed project as per the geo-coordinates mentioned in the approved Mining Plan with Progressive Mine Closure Plan **falls within the potential mining zone** recorded in the approved District Survey Report (DSR) of Purba Bardhaman district.
- Based on the presentation and submission made by the PP, the SEAC **recommended** issuance of **Standard Terms of Reference** for EIA preparation for the project with the following additional conditions :-
 - 1) Cluster Certificate from the competent authority.
 - 2) Photographs of the site mentioning the geo-coordinates.
 - 3) Standard practice of management of the intermediate storage area should be submitted.

- 4) Means of access and egress between the embankment and the sand quarry may be clearly earmarked. The Project Proponent must commit that no hard toping or paving of any haulage route within the riverbed will be attempted.
- 5) A plan on the management and handling of sand during the period of intermediate stockpiling should be submitted.
- 6) A Progressive Greenbelt Plan may be prepared. The project area being entirely on the riverbed, afforestation/ vegetation should be attempted alongside the village roads or other public land. This may be done with prior approval of the local self-governing bodies. If no public land is available for the purpose the Project Proponent shall arrange for land with his personal means. To enhance success/ survival rate the plantation shall be attempted during the first two years of the project life and the plantation so done shall be taken care of during the rest of the project life. Species of the plant selected should be self-sustaining in that particular region. Spatial year wise progressive plantation programme to be submitted.
- 7) Plan showing spatial year wise distribution of the proposed greenbelt has to be submitted along-with supporting documents of administrative approvals.
- 8) Being a mine in operation, the plantation created so far may be submitted with geotagged photographs.
- 9) EIA should also include detailed study of the baseline condition and impact on aquatic flora and fauna.
- 10) The project cost may include the auction bid value, estimated royalty to be paid, cost of any infrastructure built like office space, stockyard, etc. The calculation/documents to estimate the project cost should be submitted. The planned expenditure for components like need-based activities may be derived based on the project cost.
- 11) A need-based EMP may be prepared in accordance with the MoEF&CC Office Memorandum vide F. No. 22-65/2017.IA.III dated 30.09.2020. Record of communications made in this regard with the identified/ intended beneficiaries (schools/ institutions etc) may also be uploaded. Evidence of the activities already done should be provided by photographs with geo-coordinates.
- 12) A study report on base flow level measured at 4 points with date and supporting photographs should be submitted. It should be committed that mining will be done at least 1m above the base flow level. Accordingly, if required, the excavation plan may also be revised.
- 13) Management plan including the final closure plan of haul road to be submitted.
- 14) Sieve analysis report for grain size distribution should be provided.
- 15) Study and protection plan of the aquatic life available both during the mining and non-mining seasons should be provided.

While applying for environmental clearance. the PP shall upload in the PARIVESH portal, the EIA/EMP report along with the documents / submissions / clarifications sought above.

All the documents should be duly signed both by the project proponent and the environmental consultant.

Table-1 : List of the projects which were placed before the SEAC, WB (2023-2026) in the twenty-eight meeting held on 07.02.2024 and the Summary Decisions thereof:

Sl. No.	Name of the unit and Project address	Summary Decision
1. Cases for Technical Presentation		
1.1) Environmental Clearance		
1.1.1) Industry Sector		
I.	M/s. Gujarat Ambuja Exports Ltd. Proposed Ethanol / Extra Neutral Alcohol (ENA) Manufacturing Plant and 4.9 MW Co-generation Power Plant at J.L No. 93, Malda Industrial Growth Centre (Phase II), Opp. Jubilee Petrol Pump, Vill – Mandilpur, P. O. - Narayanpur, P. S. – Malda, West Bengal, PIN– 732141. (Proposal No.: SIA/WB/IND2/441212/2023)	Additional Details Sought
1.2) Environmental Clearance		
1.2.1) Mining of Minerals (Other than sand) Sector		
I.	Shri Jharlal Singh. Proposed Taladih Blackstone Mine over an area of 4.621 ha at JL No -209, Plot No -164(P), Mouza – Taladih, Block & P.S. – Barabazar, Subdivision – Manbazar, District – Purulia, West Bengal. (Proposal No.: SIA/WB/MIN/457400/2024)	Rejected
II.	Shri Sarandeep Saini. Proposed Deep Black Stone Project over an area of 4.223 ha (10.44 acre) at Mouza: Mouchuria, JL No.: 111, Plot No.: 35(P), Block: Saltora, District: Bankura, West Bengal. (Proposal No.: SIA/WB/MIN/457957/2024)	Absent
III.	Shri Dibyendu Mondal. Proposed Deep Bamnishala Blackstone Mine over an area of 1.287 ha (3.180 acres) at Plot No. 60, 82 & 91, JL No. 98, PS & Block – Saltora, District – Bankura, West Bengal. (Proposal No.: SIA/WB/MIN/457717/2024)	Additional Details Sought
IV.	Shri Dinesh Mondal. Proposed Dhatala Blackstone Mining Project over an area of 1.436 ha. (3.55 acres) at J.L. No.-115, Plot Nos- 626, 661, Mouza – Dhatala, PS & Block – Saltora, Dist – Bankura, West Bengal. (Proposal No.: SIA/WB/MIN/457147/2023)	Additional Details Sought
1.2.2) Mining of Minerals Sector		
I.	M/s. Rakshakali Supply (Prop. Sri Susanta Dutta). Proposed Naratambati Sand Mine over an area of 3.16 ha (7.82 Acres) on the Dwarakeshwar river at Plot No: 2502(P), J.L. No.: 136, Mouza: Naratambati, P.S.- Madhabdihi, Block - Raina-II, Dist - Purba Bardhaman, West Bengal. (Proposal No.: SIA/WB/MIN/457781/2024)	Additional Details Sought

Sl. No.	Name of the unit and Project address	Summary Decision
II.	Shri Santosh Chourasia. Proposed Purbator Sand Mine over an area of 4.54 ha. (11.21 acres) on the Damodar River at Mouza- Purbator, J.L. No.- 67, Plot No.-970(P), Block & P.S. - Mejhia, District- Bankura, West Bengal. (Proposal No.: SIA/WB/MIN/458081/2024)	Absent
III.	M/s. Rainbow Infrastructure & Housing Development Ltd. Proposed Kota Sand Mine over an area of 3.33 ha (8.23 Acres) on the river Ajay at plot no: 3322(P), 3451(P), J.L. No.-158, Mouza: Kota, P.S.: Dubrajpur, District: Birbhum, West Bengal. (Proposal No.: SIA/WB/MIN/460898/2024)	Recommended for Environmental Clearance
IV.	M/s. West Bengal Mineral Development And Trading Corporation Limited. Proposed Purbatore Sand Mine (MIN_BNK_62) over an area of 7.07 ha (17.47 Acre) on the Damodar river at Plot no. 970(P), JL No. 67, Mouza – Purbatore, PS – Mejhia, Dist – Bankura, West Bengal. (Proposal No.: SIA/WB/MIN/457264/2023)	Additional Details Sought
V.	M/s. West Bengal Mineral Development And Trading Corporation Limited. Proposed Magh Riverbed Sand Block (MIN_PUR_15) over an area of 10.15 ha on the Subarnarekha river at Plot No. 1599(P), 1600(P), JL No. 45, Mouza – Magh, P.S.: Jhalda, Dist: Bankura, West Bengal. (Proposal No.: SIA/WB/MIN/458258/2024)	Additional Details Sought
1.3) Terms of Reference		
1.3.1) Mining of Minerals Sector		
I.	Shri Swapan Das Bhowmik. Proposed Nischintapur Sand Mine over an area of 3.60 ha (8.89 Acres) on the river Kangshabati at Plot no: 1(P), 2(P), 3(P), 19(P) & 20(P), J.L. No.-48, Mouza: Nischintapur, P.S.: Medinipur, District: Paschim Medinipur, West Bengal. (Proposal No.: SIA/WB/MIN/445195/2023)	Recommended for Terms of Reference
II.	M/s. Packhorse Traders Private Limited. Proposed Kumirkola Sand Mine over an area of 4.91 ha (12.14 Acres) on river Damodar at plot no: 669(P), 670, 742, 750, 751(P) 752, 774, 775(P), 632(P), 779(P), 674(P), 660(P), 659, 673, 778, 672, 671, 749(P), 741(P), 606(P), J.L. No.-9, Mouza: Kumirkola, P.S. Khandaghosh, District: Purba Bardhaman, West Bengal. (Proposal No.: SIA/WB/MIN/458570/2024)	Recommended for Terms of Reference

There being no other agenda the Chair thanked the members present for their fruitful participation and deliberations. The meeting ended with a vote of thanks to the Chair.

Sd/-	Sd/-
(Prof. (Dr.) Anirban Gupta) Chairman State Expert Appraisal Committee, West Bengal	(Dr. Pradip Kumar Sikdar) Member State Expert Appraisal Committee, West Bengal
Sd/-	Sd/-
(Prof. (Dr.) Suchandra Bardhan) Member State Expert Appraisal Committee, West Bengal	(Prof. (Dr.) Sampa Chakraborty) Member State Expert Appraisal Committee, West Bengal
Sd/-	Sd/-
(Prof. (Dr.) Aniruddha Mukhopadhyay) Member State Expert Appraisal Committee, West Bengal	(Prof. (Dr.) Indranath Sinha) Member State Expert Appraisal Committee, West Bengal
Sd/-	Sd/-
(Shri Shubhendu Bandyopadhyay) Member State Expert Appraisal Committee, West Bengal	(Dr. Rajesh Kumar, IPS) Secretary State Expert Appraisal Committee, West Bengal

