

Minutes of 462nd SEAC Meeting Dated 30/04/2020

The 462nd meeting of SEAC was held through video/tele-conferencing/ email in view of the Corona Virus Disease (Covid-19) on 30/04/2020. Following members were participate in the online meeting:

1.	Dr. (Prof.) S.N. Singh,	Chairman
2.	Dr. Sarita Sinha,	Member
3.	Dr. Virendra Misra,	Member
4.	Dr. Pramod Kumar Mishra,	Member
5.	Dr. Ranjeet Kumar Dalela,	Member
6.	Dr. Ajoy Kumar Mandal,	Member
7.	Shri Meraj Uddin,	Member
8.	Shri Rajive Kumar,	Member

The Chairman welcomed the members to the 462nd SEAC meeting which was conducted online.
The SEAC unanimously took following decisions on the agenda points discussed:

1. Proposed Project for Addition of Products for Manufacturing of Bulk Drugs, Intermediates and Organic Chemicals by M/s Saral Chemtech LLP at 9th km Jansath Road, Village Shernagar, Muzaffarnagar, UP-251001 File No. 5027/5625/Proposal No. SIA/UP/IND2/41366/2019 and SIA/UP/IND2/152298/2020.

A presentation was made online through video/tele-conferencing/email in view of the Corona Virus Disease (Covid-19) by the project proponent along with their consultant M/s Ind Tech House Consult. The proponent, through the documents submitted and the presentation made, informed the committee that: –

- 1) The environmental clearance is sought for manufacturing of bulk drugs, intermediates and organic chemicals within the existing premises at 9th Km Jansath Road, Village – Shernagar, District Muzaffarnagar, UP – 251 001 by M/s Saral Chemtech LLP.
- 2) The proposed bulk drug manufacturing is a new plant whereas the existing manufacturing of inorganic chemicals within the same premises does not attract environmental clearance as per provisions of MOEF Notification dated 14.09.2006.
- 3) Application to SEAC UP in Form 1 was submitted to the SEAC on 31 August 2019 under 5(f) category ‘B’ for approval of Terms of Reference (ToR).
- 4) Terms of reference in the matter were issued vide letter no. 524/Parya /SEAC/5027/2018 dated 16 January 2020.
- 5) Public hearing was scheduled on 30th March 2020 but could not be conducted under the nationwide situation due to COVID 19.

- 6) MOEF&CC GOI has issued notification dated 27.03 2020 and Office Memorandum Dated 13.04.2020 for projects or activities in respect of Active Pharmaceutical Ingredients (API), received up to the 30th September 2020, shall be appraised, as Category B2' projects for expediting the prior Environmental Clearances so as to ensure drug availability or production to reduce the impact of the Novel Corona Virus (COVID-19).
- 7) Project proponent has submitted a request letter vide dated 01.04.2020 to consider the proposal under B2 category as per MOEF&CC, GOI, notification dated 27.03.2020 and Office Memorandum Dated 13.04.2020. The project proponent also submitted proposal vide proposal no. SIA/UP/IND2/152298/2020 to SEIAA on 29th April 2020 under B2 category .
- 8) The project is now appraised on the basis of the proposal submitted under B2 category and it has been decided by the committee that all applications earlier submitted by the PP will be closed.
- 9) The project is having a plot area of 6015.18 sqm. Proposed green area will be 33% i.e. approx. 1986.16 sqm within the industry premises.

Salient features of the project as submitted by the project proponent:-

Particulars	Details			
Name of the company	M/s Saral Chemtech LLP			
Location	9th Km Jansath Road, Village – Shernagar, Muzaffarnagar, UP – 251 001			
Project Proponent	Mr. Mohit Garg (Partner)			
S. No. in the schedule	5(f) ; Synthetic organic chemical industry			
Land use	The land is marked for industrial purpose as per Master Plan of Muzaffarnagar Development Authority.			
Production capacity	Manufacturing of 51 types of bulk drug and intermediates. Total installed production capacity 150 MT/month			
Project Area	6015.18 sqm			
Total project cost	INR 545.61 lakhs			
Employment with full capacity operation	44			
Source of power supply and power back up	Power load of 500 KVA already installed and additional load of 250 KVA for the proposed project. Source of power – UPPCL DG for power back up – Existing 2 nos.-1@250 KVA and 1@125 KVA Additional 1@250 KVA will be installed.			
Source of water supply	Onsite tube-well duly approved by the CGWA			
Fresh water requirement	24.5 KLD			
Wastewater generation	Total: 19 KLD Domestic: 2 KLD and industrial: 17 KLD			
Wastewater management/ Disposal	Domestic wastewater will be disposed through septic tank and soak pit. Industrial wastewater will be treated through onsite ETP and part of treated wastewater [7.6 KLD] will be used for gardening/floor washing etc. Rest of treated wastewater will be discharged to outside drain.			
Solid/Hazardous waste management and disposal	Non Hazardous municipal solid waste: Recyclable waste will be sold to scrap vendor, while biodegradable wastes will be disposed through authorized vendor. Hazardous wastes –			
	S. No	Type of waste	Cat. as per HW Rule	Mode of disposal

	1	Process waste from plant operation	28.1	Safely stored onsite in HDPE drums on impervious floor at a designated place before final disposal through common HWTSDF
	2	Spent carbon	28.3	
	3	Spent Solvent	28.6	
	4	Residue of spent solvent recovery [if onsite recovery plant is installed]	36.1	
	5	ETP sludge [dried]	35.3	
	5	Empty barrels/containers / liners contaminated with hazardous chemicals /wastes	33.1	Sold to CPCB/UPPCB authorized recyclers
	6	Used oil	5.1	stored onsite at a designated place in drums and sold to CPCB/UPPCB authorized recyclers
Proposed Air Pollution Control Equipment	<ul style="list-style-type: none"> Existing boiler [4MT/hr & wood/agro fuel fired] already provided with cyclone separator followed by wet scrubber and stack of height of 30 m from ground level. DG sets are provided with stacks of adequate height as per norms. <p>Stack emission will be complied with the UPPCB/CPCB norms.</p> <p>Process emission will be controlled with following provisions –</p> <ul style="list-style-type: none"> Drum charging hoods will be connected to wet scrubbers. Dedicated pipe lines for transfer of solvents, mechanical seals for all reactors. Process reactors will be fitted with vent & wet scrubber to control reactor emission in the work area. 			

10) The details of products (bulk drugs and intermediates) and capacity are as under:

S. No.	Name of Product	QTY MT/Month	Batch Size KG	No of Batch
1	MEFENAMIC ACID	20	1200	17
2	ACECLOFENAC	70	1000	70
3	2,6 DICHLORO PHENOL	70	1200	58

4	AMBROXOL BASE	20	200	100
5	AMBROXOL HCL	10	200	50
6	BENFOTIAMINE HCL	10	200	50
7	CHLORAMPHENICOL	30	1500	20
8	CHLORAMPHENICOL PALMITATE	30	1700	18
9	CHLORHEXIDINE DIHYDROCHLORIDE	20	500	40
10	CHLORZOXAZONE	20	950	21
11	CIPROFLOXACIN HCl	20	1200	17
12	CITICOLINE SODIUM	5	200	25
13	CLOSANTEL	15	500	30
14	DEFARASIROX	10	975	10
15	DICLOFENAC DIETHYL AMINE	22	1100	20
16	DICLOFENAC POTASSIUM	10	1400	7
17	DICLOFENAC SODIUM	50	1600	31
18	DOMPERIDONE	5	250	20
19	ERYTHROMYCIN STEARATE	22	725	30
20	ESOMEPRAZOLE MAGNESIUM	5	150	34
21	FENBENDAZOLE	11	220	50
22	FLUCONAZOLE	15	500	30
23	GUAIFENESIN	15	200	75
24	IBUPROFEN	65	1670	39
25	KETOCONAZOLE	15	500	30
26	LEVOFLOXACIN	20	1200	17
27	LIDOCAINE HCL	20	415	48
28	LUMEFENTRINE	5	150	34
29	MELOXICAM	20	335	60
S. No.	Name of Product	QTY MT/Month	Batch Size KG	No of Batch
30	METFORMIN ACID	75	1500	50
31	METHOCARBAMOL	11	220	50
32	METHYLCOBALAMIN	1	20	50
33	METRONIDAZOLE BENZOATE	42	1400	30

34	MONTELUKAST SODIUM	5	100	50
35	NIACINAMIDE	60	1000	60
36	OFLOXACIN	20	1200	17
37	OLMESTRON	5	150	34
38	ORNIDAZOLE	30	600	50
39	OXYCLOZAIDE	10	250	40
40	PARACETAMOL	80	4000	20
41	PIOGLITAZONE HCL	2	70	35
42	PIROXICAM	20	325	62
43	PSEUDOEPHEDRINE HCL	14	450	31
44	PYRAZINAMIDE	50	1000	50
45	RABEPRAZOLE SODIUM	4	80	50
46	SIDNAFIL CITRATE	20	1000	20
47	TELMISARTON	4	80	50
48	TENLEGLEPTIN HYDROBROMIDE HYDRATE	5	140	36
49	THIAMINE HYDROCHLORIDE	15	500	30
50	TRAMADOL HCL	14	270	52
51	VILDAGLEPTIN	5	130	39

- 11) There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance of the project site. River Kali is at a distance of 8.3 km in W direction. Drain adjacent to project site finally meets Muzaffarnagar Main Drain on further west.

RESOLUTION AGAINST AGENDA NO-01

The committee discussed the matter and recommended grant of environmental clearance for the project proposal along with following conditions:

I. 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.
2. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
3. 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 species in the study area).

4. 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.
5. The project proponent shall obtain authorization under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, as amended from time to time.
6. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989

II. Air quality monitoring and prevention:

1. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R.608(E) dated 21st July, 2010 and amended from time to time shall be followed.
2. Fugitive emissions shall be controlled at 99.98% with effective chillers//modern technology.
3. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
4. Process emission should be controlled by installing hood extraction, scrubber/adsorption media and vents.
5. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826(E) dated 16th November, 2009 shall be complied with.
6. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
7. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
8. Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
9. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
10. For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
11. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
12. No raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used.
13. Solvent management shall be carried out as follows:
 - a) Reactor shall be connected to condenser/distillation system.
 - b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 - c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more

than 95% recovery.

- d) Solvents shall be stored in a separate space specified with all safety measures.
- e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
- f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
- g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.

III. Water quality monitoring and prevention:

- 1. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- 2. Reuse of treated effluent shall be ensured to the possible extent and flow meter shall be installed at the ETP inlet, discharge and reuse point. No wastewater shall be discharged outside the premises without treatment.
- 3. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- 4. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- 5. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and/or utilize the same for different industrial operations within the plant.

IV. Noise monitoring and prevention:

- 1. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- 2. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- 3. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

V. Energy Conservation measures:

- 1. The energy sources for lighting purposes shall preferably be LED based.

VI. Handling and Storage of Hazardous Chemicals:

- 1. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps. Raw material and products in liquid form should be stored in leak proof containers. Spent acid to be stored over the ground tank and to be sent to TSDF if onsite recovery plant is not installed.
- 2. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.

VII. Waste management:

- 1. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- 2. The company shall undertake waste minimization measures as below-
 - a) Metering and control of quantities of active ingredients to minimize waste.
 - b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c) Use of automated filling to minimize spillage.

- d) Use of Close Feed system into batch reactors.
- e) Venting equipment through vapour recovery system.
- f) Use of high pressure hoses for equipment clearing to reduce wastewater generation

VIII. Green Belt:

- 1. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

IX. Safety, public hearing and human health issues:

- 1. Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- 2. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
- 3. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- 4. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre- employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- 5. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- 6. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- 7. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

X. Corporate Environment Responsibility:

- 1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- 2. The company shall have a well laid down environmental policy duly approved 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. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- 3. 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 report to the head of the organization.
- 4. 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.
5. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

XI. Miscellaneous:

1. The proponent has applied for a plot area of 6015.18 m² but the approval document submitted is for plot area of gross 5718 m² and net 4880.98 m². Hence, the approval certificate for the project plot area of 6015.18 m² from Muzaffarnagar Development Authority or competent authority needs to be submitted within 45 days
2. 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.
3. 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.
4. 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.
5. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
6. 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.
7. 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.
8. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
9. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
10. 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.
11. 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).
12. 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.
13. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
14. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
15. 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.

16. 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/NGT and any other Court of Law relating to the subject matter.
17. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

2. Sand/Morrum Mining at Gata No.- Part of 333/7, 412, 413 & 414, Khand No.- 04, Village- Marauli Khadar, Tehsil- Pailani, Banda., Area- 23.0 Ha. File no. 5499/4921 Proposal No. SIA/UP/MIN/50610/2019

The project proponent vide e-mail dated 27/04/2020 has requested to list the matter in next SEAC meeting and unable to present the project due to prevailing situation of COVID-19 as well as lack of proper documentation.

The committee discussed the matter and directed to defer the matter till further request is received from the project proponent on online prescribed portal.

3. Sand/Morrum Mining at Gata No.-2/4,2/23,2/24 & 2/28, Khand No.-4, Village- Bendakhadar, Banda., M/s Ashish Kumar Gautam., Area- 21.0 ha File No. 4918/Proposal No. SIA/UP/MIN/37231/2019

A presentation was made by the project proponent through video/tele-conferencing/ email in view of the Corona Virus Disease (Covid-19) along with their consultant M/s P AND M Solution. The proponent, through the documents submitted and the presentation made informed the committee that:-

1. The environmental clearance is sought for Bendakhadar Sand/ Morrum Mining at Khand No.- 4, Village Basrehi, Tehsil- Atrra District- Banda, U.P., Proponent-Shri Ashish Kumar Gautam (Leased Area 21.0 ha
2. The terms of reference in the matter were issued by SEIAA, U.P. vide letter no. 272/Parya/SEAC/4918/2019 dated 24.09.2019.
3. The public hearing was organized on 12/02/2019. Final EIA report submitted on 03/03/2020.
4. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/ 37231/2019
2. File No. allotted by SEIAA, UP	4918
3. Name of Proponent	Shri Ashish Kumar Gautam (owner)
4. Full correspondence address of proponent and mobile no.	Village- Basrehi, Tehsil Atrra & District - Banda, Uttar Pradesh (210201)
5. Name of Project	Bendakhadar Sand/Morrum Mining Project (Khand No. 4)
6. Project location (Plot/Khasra/Gata No.)	Gata no- 2/4, 2/23, 2/24 & 2/28, Khand No.4 at village
7. Name of River	Yamuna River

8. Name of Village	Bendakhadar			
9. Tehsil	Banda			
10. District	District Banda, Uttar Pradesh			
11. Name of Minor Mineral	Sand/Morrum Mining			
12. Sanctioned Lease Area (in Ha.)	21.0 ha			
13. Max. & Min mrl within lease area	91.0 mRL & 89.0 mRL			
14. Pillar Coordinates (Verified by DMO)	Pillar No.	Latitude N	Longitude E	
	A	25° 42.380'N	80° 37.950'E	
	B	25° 42.395'N	80° 37.167'E	
	C	25° 42.060'N	80° 37.036'E	
	D	25° 42.092'N	80° 37.825'E	
15. Total Geological Reserves	607880 m ³			
16. Total Mineable Reserves in LOI	422000 m ³			
17. Total Proposed Production (in five year)	2100000 m ³			
18. Proposed Production/year	4,20,000 m ³ /annum or 7,56,000 TPA			
19. Sanctioned Period of Mine lease	5 years (5.03.2019-4.03.2024)			
20. Production of mine/day	3024 TPD			
21. Method of Mining	Opencast OTFM			
22. No. of working days	250			
23. Working hours/day	8			
24. No. Of workers	123			
25. No. Of vehicles movement/day	38			
26. Type of Land	Govt Land			
27. Ultimate Depth of Mining	2m, (maximum 3 m)			
28. Nearest metalled road from site	SH-13			
29. Water Requirement	PURPOSE	REQUIREMENT (KLD)		
	Drinking	1.23 KLD		
	Suppression of dust	7.08 KLD		
	Plantation	1.888 KLD		
	Others (if any)			
	Total	10.198 or 10.0 KLD		
30. Name of QCI Accredited Consultant with QCI No and period of validity.	P & M Solution validity=10-12-2022			
31. Any litigation pending against the project or land in any court	No			
32. Details of 500 m Cluster Map & certificate issued by Mining Officer	Letter No. 4298/khanij-30 Banda dated 02-04-2019			
33. Details of Lease Area in approved DSR	Page No.60-66			
34. Proposed CSR cost	RS-1,50,000/-			
35. Proposed EMP cost	Capital Rs-8,80,000/- recurring cost- Rs 3,30,000/-			
36. Length and breadth of Haul Road	1.18km, 6 m			
37. No. of Trees to be Planted	2360 plants			

- The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
- This project does not attract any of the general conditions applicable on mining projects specified in EIA Notification 14/09/2006.

7. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
8. There is no litigation pending in any court regarding this project.
9. The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-03

The committee discussed the matter and recommended grant of environmental clearance for the project proposal along with general and specific conditions as annexed at annexure 1 & 2 to these minutes regarding mining project. The committee also stipulated following specific conditions:

1. Environment management in according to environmental status and impact of the project.
2. Selection of plants for green belt should be on the basis of pollution removal index.
3. No mining activity should be carried out in-stream channel as per SSMMG, 2016.
4. Pakka motorable haul road to be maintained by the project proponent.
5. A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
6. Permission from the competent authority regarding evacuation route should be taken.
7. Project proponent should ensure survival of tree saplings. Mortality should be replaced from time to time.
8. Site Pit photographs should be submitted with date, time and point-coordinate within 15 days.
9. One month monitoring report of the area for air quality, water quality, Noise level. Besides flora & fauna should be examined twice a week and be submitted within 45 days for a record.
10. Provision for cylinder to workers should be made for cooking.
11. The capacity of trucks/tractor for loading purpose will be in tonnes as per Transport Department applicable norms and standard fixed by the Government.
12. Provide suitable mask to the workers.
13. Approach road kaccha is to be made motarable and tree saplings to be planted on both sides of the road.
14. Indigenous plants should be planted according to CPCB guidelines and in consultation with local Divisional Forest Officer.
15. The project proponent shall in 2 years conduct detailed replenishment study duly authenticated by a QCI-NABET accredited consultant, and the District Mines Officer.
16. Provision for two toilets and hand pumps should be made at mining site.
17. Drinking water for workers would be provided by tankers.
18. Mining should be done by Bar scalping methods extraction (typically 0.3 -0.6 m or 1 - 2 ft) as per sustainable sand mining management guidelines 2016.
19. A buffer/safe zone shall be maintained from the habitation as per mining guidelines.
20. Corporate Environmental Responsibility (CER) plan with minimum Rs. 4.22 Lakh/annum shall be prepared by the project proponent and the details of the various heads of expenditure to be submitted as per the guidelines provided in the recent CER notification No. 22-65/2017-IA.III dated 01/05/2018. Work to be executed with installation of five hand pumps for drinking water, solar light in villages of streets, construction of two numbers of toilets at the primary school with name displayed and address and details of beneficiary and gram pradhan along with phone number, photographs should be submitted to Directorate as well as to the District magistrate / Chief Development Officers, Hamirpur, U.P.
21. Health/Insurance card, Medical claim, regular health check-up camps, facilities shall be provided to the regular/temporary/Contractual or any base workers. Copy of receipt shall be produced to the Directorate of Environment along with the compliance report.

22. Measure for conservation of water through rainwater harvesting and cleaning and maintenance of natural surface water bodies of the nearby areas may be considered as one of the activity in CER.
23. The excavated mining material should be carried and transported in such a way that no obstruction to the free flow of water takes place. Suitable measure should be taken and details to be provided to concern Department.
24. Width of the haul road shall be more than 6 meter.
25. Submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity / production levels shall be decreased / stopped accordingly till the replenishment is completed.

4. Sand/Morrum Mining from Betwa River Gata no. 240 Khand No.5, Vill: Himanpura, Tehsil Kalpi, Dsitt: Jalaun. M/s Ghanaram Infra engineers Pvt Ltd. Area- 16.194 ha. File No. 4157/Proposal No. SIA/UP/MIN/22642/2018

A presentation was made by the project proponent through video/tele-conferencing/ email in view of the Corona Virus Disease (Covid-19) along with their consultant ENV Development Assistance Systems (I) Pvt. Ltd.. The proponent, through the documents submitted and the presentation made informed the committee that:-

1. The environmental clearance is sought for Sand/Morrum Mining from Betwa River Gata no. 240 Khand No.5, Vill: Himanpura, Tehsil Kalpi, Dsitt: Jalaun. M/s Ghanaram Infra engineers Pvt Ltd. Area- 16.194 ha.
2. The terms of reference in the matter were issued by SEIAA, U.P. vide letter no. 35/Parya/SEAC/4157/2018 dated 25.04.2018.
3. The public hearing was organized on 19/09/2018. Final EIA report submitted on 07.11.2018
4. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/22642/2018		
2. File No. allotted by SEIAA, UP	4157		
3. Name of Proponent	M/s Ghanaram Infra Engineers Pvt . Ltd.		
4. Full correspondence address of proponent and mobile no.	M/s Ghanaram Infra Engineers Pvt. Ltd. 818, West Patel Nagar, New Delhi Proprietor Shri Bishan Singh S/o Shri Ghanaram Singh R/o 240/4a, Civil Line, Kachahri Chauraha, Jhansi (U.P.)		
5. Name of Project	Sand/Morrum Mining		
6. Project location (Plot/Khasra/Gata No.)	Gata No. 240 & Khand No. 05		
7. Name of River	Betwa		
8. Name of Village	Himanpura		
9. Tehsil	Kalpi		
10. District	Jalaun		
11. Name of Minor Mineral	Sand/Morrum		
12. Sanctioned Lease Area (in ha)	16.194 ha		
13. Mineable Area (in ha)	14.80 ha		
14. Zero level mRL	95 mRL		
15. Max. & Min mrl within lease area	109 mRL and 98 mRL		
16. Pillar Coordinates (Verified by DMO)	Pillars	Latitude	Longitude
	Sanctioned Lease Area		
	A	25°51'52.26"N	79°47'4.94"E
	B	25°51'48.41"N	79°47'17.63"E

		C	25°52'3.87"N	79°47'18.76"E
		D	25°52'5.87"N	79°47'6.32"E
		Workable Area		
		D	25°52'5.87"N	79°47'6.32"E
		C	25°52'3.87"N	79°47'18.76"E
		E	25°51'50.70"N	79°47'17.78"E
		F	25°51'53.05"N	79°47'5.02"E
		Non-Workable Area		
		A	25°51'52.26"N	79°47'4.94"E
		B	25°51'48.41"N	79°47'17.63"E
		E	25°51'50.70"N	79°47'17.78"E
		F	25°51'53.05"N	79°47'5.02"E
		17. Total Geological Reserves	4,40,682 m ³	
18. Total Mineable Reserves in LOI	2,42,910 m ³ /year			
19. Total Proposed Production	2,42,910 m ³ /year (12,14,550 m ³ in 05 years)			
20. Proposed Production/year	2,42,910 m ³			
21. Sanctioned Period of Mine lease	5 years			
22. Production of mine/day	883 m ³ /day			
23. Method of Mining	Bar Scalping or Skimming method (Semi mechanized/ OTFM- Other than fully mechanized, as per IBM & SSMG, 2016) using: <ul style="list-style-type: none">• Scraper/light earth movers• Chain based Bulldozer for rescue & salvage• Loader• Truck & tractors for transportation			
24. No. of working days	275 days			
25. Working hours/day	12 hours			
26. No. Of workers	Approximately 66 labours			
27. No. Of vehicles movement/day	59 units			
28. Type of Land	Non – Agricultural, Government Waste Land (Revenue land)			
29. Ultimate Depth of Mining	3 m			
30. Nearest metalled road from site	1.40 km (East)			
31. Water Requirement	PURPOSE	REQUIREMENT (KLD)		
	Drinking	1.43		
	Suppression of dust	5.44		
	Plantation	0.040		
	Others (Stored water)	0.10		
	Total	6.90 KLD		
32. Name of QCI Accredited Consultant with QCI No and period of validity.	ENV Development Assistance Systems (I) Pvt. Ltd. NABET/EIA/1821/SA 102 and Valid till 25/02/2021.			
33. Any litigation pending against the project or land in any court	None			
34. Details of 500 m Cluster Map & certificate verified by Mining Officer	Cluster certificate issued by DMO Jhansi Letter No. 1000/Khanij-MMC-30 dated 17.03.2020			
35. Details of Lease Area in approved DSR	Page No. 54, Sl. No. 49			
36. Proposed CER cost	2% of total project cost i.e. Rs. 23,59,253/-			

37. Proposed EMP cost/ Total Project Cost	Rs. 22,80,436/- & 11,79,62,673/- respectively
38. Length and Width of Haul Road	Unpaved Length 0.34 km and Paved Length .92 km and 6 m width
39. No. of Trees to be Planted	80

10. The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
11. This project does not attract any of the general conditions applicable on mining projects specified in EIA Notification 14/09/2006.
12. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
13. There is no litigation pending in any court regarding this project.
14. The project proposal falls under category–1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-04

The committee discussed the matter and recommended grant of environmental clearance for the project proposal along with general and specific conditions as annexed at annexure 1 & 2 to these minutes regarding mining project. The committee also stipulated following specific conditions:

1. The project proponent shall submit a revised/corrected cluster certificate before the SEIAAUP meeting.
2. The geo-coordinate of 2 bending points between A and B need to be mentioned in the lease map and verified by respective authority.
3. Environment management in according to environmental status and impact of the project.
4. Selection of plants for green belt should be on the basis of pollution removal index.
5. No mining activity should be carried out in-stream channel as per SSMMG, 2016.
6. Pakka motorable haul road to be maintained by the project proponent.
7. A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
8. Permission from the competent authority regarding evacuation route should be taken.
9. Project proponent should ensure survival of tree saplings. Mortality should be replaced from time to time.
10. Site Pit photographs should be submitted with date, time and point-coordinate within 15 days.
11. One month monitoring report of the area for air quality, water quality, Noise level. Besides flora & fauna should be examined twice a week and be submitted within 45 days for a record.
12. Provision for cylinder to workers should be made for cooking.
13. The capacity of trucks/tractor for loading purpose will be in tonnes as per Transport Department applicable norms and standard fixed by the Government.
14. Provide suitable mask to the workers.
15. Approach road kaccha is to be made motarable and tree saplings to be planted on both sides of the road.
16. Indigenous plants should be planted according to CPCB guidelines and in consultation with local Divisional Forest Officer.
17. The project proponent shall in 2 years conduct detailed replenishment study duly authenticated by a QCI-NABET accredited consultant, and the District Mines Officer.
18. Provision for two toilets and hand pumps should be made at mining site.
19. Drinking water for workers would be provided by tankers.
20. Mining should be done by Bar scalping methods extraction (typically 0.3 -0.6 m or 1 - 2 ft) as per sustainable sand mining management guidelines 2016.

21. A buffer/safe zone shall be maintained from the habitation as per mining guidelines.
22. Corporate Environmental Responsibility (CER) plan with minimum Rs. 4.22 Lakh/annum shall be prepared by the project proponent and the details of the various heads of expenditure to be submitted as per the guidelines provided in the recent CER notification No. 22-65/2017-IA.III dated 01/05/2018. Work to be executed with installation of five hand pumps for drinking water, solar light in villages of streets, construction of two numbers of toilets at the primary school with name displayed and address and details of beneficiary and gram pradhan along with phone number, photographs should be submitted to Directorate as well as to the District magistrate / Chief Development Officers, Hamirpur, U.P.
23. Health/Insurance card, Medical claim, regular health check-up camps, facilities shall be provided to the regular/temporary/Contractual or any base workers. Copy of receipt shall be produced to the Directorate of Environment along with the compliance report.
24. Measure for conservation of water through rainwater harvesting and cleaning and maintenance of natural surface water bodies of the nearby areas may be considered as one of the activity in CER.
25. The excavated mining material should be carried and transported in such a way that no obstruction to the free flow of water takes place. Suitable measure should be taken and details to be provided to concern Department.
26. Width of the haul road shall be more than 6 meter.
27. Submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity / production levels shall be decreased / stopped accordingly till the replenishment is completed.

5. Sand/Morrum Mining (Plot no.381, 378, 383, 382, 384, 385, 386 Mi, 391, (Khand-2)) Near Village: Korra Kanak, Fatehpur, Area- 40.48 ha. File No. 4691/4379/Proposal No. SIA/UP/MIN/31813/2018

The committee noted that the matter was earlier discussed in 395th SEAC meeting dated 05/04/2019 and directed is as follows:

“The committee discussed the matter and decided that a site visit shall be undertaken by Dr. Pramod Kumar Mishra, Member, SEAC, Shri Meraj Uddin, Member, SEAC and District Mining Officer, Fatehpur within 15 days and the site inspection report shall be submitted to SEAC. The matter shall be discussed after receipt of inspection report.”

A site visit was undertaken by the committee of Shri Pramod Kumar Mishra, Member, SEAC and Shri Meraj Uddin, Member, SEAC on 10/01/2020 and submitted in DOE on 27.02.2020. The inspection committee made the following observations:-

The Site Visit of the above-mentioned project/File No. 4691 was conducted by Mr. Meraj Uddin and Dr. Pramod Kumar Mishra member SEAC on 10.01.2020. The district Mining Officer was also informed to take part in the inspection on the scheduled date but he could not participate. An employee Mr. Shakir Ali of Mining Dept. Fatehpur accompanied us to the lease area. The committee inspected the site, taken observation and asked DMO to prepare a lease map with verification of geocoordinate of total area, workable area and submerged area. This is provided to us and attached with the report.

Background:

The total lease area lies in Khand-02, Gata No. – 381,378,383,382,384,385,386Mi, 391 (40.48)ha. The River Yamuna flows from N to S with step meandering all along the right bank of lease area.

The LOI of the area was issued on 04/05/2018 in favour of M/s Kanwar Enterprises (Proponent Shri K.P. Singh S/o Shri Harbhajan Singh) for the period of 5 years (Annexure No.):

Mining plan was approved on 05/06/2018.

The TOR was granted on 18/07/2018.

The lease area was categorized under BI as per cluster certificate.

The proponent requested before SEAC, for the site visit and revaluation of the lease area.

Action taken:

1. The area shown was inspected and the co-ordinate of pillars of total area, workable area and submerged area were taken and are as follows:

Pillar	Latitude	Longitude
A	25°43.582'N	80°34.665'E
B	25°43.415'N	80°34.805'E
C	(Submerged)	
D	(Submerged)	

Pillar	Latitude	Longitude
A	25°43.582'N	80°34.665'E
B	25°43.415'N	80°34.805'E
A2	25°43.173'N	80°34.641'E
A1	25°43.320'N	80°34.482'E

2. The Geo-co-ordinate of two pond formed by ponding effect were taken at Point C1,C2 & D1,D2 Pond location:

Pillar	Latitude	Longitude
C1	25°43.508'N	80°34.614'E
C2	25°43.454'N	80°34.614'E
D1	25°43.369'N	80°34.775'E
D2	25°43.349'N	80°34.375'E

Observation: The verified Geo-co-ordinate on map produced by District Mining Officer are as follows:

Total Area:

Pillar	Latitude	Longitude
A	25°43.582'N	80°34.665'E
B	25°43.415'N	80°34.805'E
C	25°43.043'N	80°34.555'E
D	25°43. 170'N	80°34.375'E

Workable area:

Pillar	Latitude	Longitude
A	25°43.582'N	80°34.665'E
B	25°43.415'N	80°34.805'E
A2	25°43.173'N	80°34.641'E
A1	25°43.320'N	80°34.482'E

Submerged area:

Pillar	Latitude	Longitude
A1	25°43.320'N	80°34.482'E
A2	25°43.173'N	80°34 641'E
C	25°43.043'N	80°34.555'E (Submerged)
D	25°43.170'N	80°34.375'E (Submerged)

The verified Geo-co-ordinate of ponds formed by ponding effect is shown in map.

1. The estimated quantity was calculated as per formula in following way:

Total area = area in Ha x 10,000

= area in m²

Total area in m² depth mine = available production in m³

40.48 Ha = 40.48 x 10,000 = 4,04,800 m²

Production = 4,04,800 x 1.5 = 6,07,200 m³

The status of total area workable area and submerged area is as follows (as per approved mining plan)

	Area	
1.	Mineable area	23.386 Ha
2.	Workable area	2.231 Ha
3.	Submerged area	14.863 Ha
	Total area	40.48 Ha

Conclusion:

1. The Geo-co-ordinate of lease area take by committee and of the map produced by DMO matched.
2. The mining activity in the ponds formed by ponding effect is not possible, two ponds in lease area also decreases the Mineable area.
3. The LOI was issued on the basis of Total area and not on the basis of mineable area.
4. The physiography indicate of the area that approximately 40% area is submerged in water.
The proponent should request the competent authority to review the status of lease area.

The committee discussed the matter and directed the Secretariat to send a letter to District Magistrate, Fatehpur for providing the latest factual report of the site from competent authority (DGM /DM/DMO) along with photographs with date, time and verified all point-coordinate on lease map within 15 days

The committee also directed that a copy of the letter should be sent to Director, Geology and Mining Department, Lucknow, Uttar Pradesh and the project proponent for necessary action.

6. Sand/Morrum Mining from Dhasan River Bed at Gata No.- 908 Na, Khand No.-02, Village-Kharwanch, Tehsil-Garautha, Jhansi, U.P., M/s Bharosa Sarkar, Area: 20 ha, File No 5542 proposal No. SIA/UP/MIN/51345/2020

A presentation was made by the project proponent through video/tele-conferencing/ email in view of the Corona Virus Disease (Covid-19) along with their consultant ENV Development Assistance Systems (I) Pvt. Ltd. The proponent, through the documents submitted and the presentation made informed the committee that:-

1. The environmental clearance is sought for Sand/Morrum Mining from Dhasan River Bed at Gata No.- 908 Na, Khand No.-02, Village- Kharwanch, Tehsil-Garautha, Jhansi, U.P., M/s Bharosa Sarkar, Area: 20 ha.
2. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/51345/2020
-------------------------	-----------------------

2. File No. allotted by SEIAA, UP	5542																										
3. Name of Proponent	M/s Bharosa Sarkar Contractor & Suppliers Authorized Signatory -Shri Dinesh Kumar																										
4. Full correspondence address of proponent and mobile no.	M/s Bharosa Sarkar Contractor & Suppliers Proprietor- Shri Shri Dinesh Kumar S/o Shri Sheetal Prasad. R/o Village - Bharosa, Tehsil - Moth, District - Jhansi, Uttar Pradesh																										
5. Name of Project	Sand/Morrum Mining																										
6. Project location (Plot/Khasra/Gata No.)	Gata No. 908 na (Khand No. 2)																										
7. Name of River	Dhasan River																										
8. Name of Village	Kharwanch																										
9. Tehsil	Garautha																										
10. District	Jhansi																										
11. Name of Minor Mineral	Sand/Morrum																										
12. Sanctioned Lease Area (in ha)	20.0 ha																										
13. Mineable Area (in ha)	20.0 ha																										
14. Zero level mRL	119 mRL																										
15. Max. & Min mrl within lease area	121 mRL and 124 mRL																										
16. Pillar Coordinates (Verified by DMO)	<table><tr><th colspan="3">Sanctioned Area</th></tr><tr><th>Points</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>25°43'24.10"N</td><td>79°22'42.50"E</td></tr><tr><td>B</td><td>25°43'28.30"N</td><td>79°22'48.90"E</td></tr><tr><td>C</td><td>25°43'45.00"N</td><td>79°23'20.60"E</td></tr><tr><td>D</td><td>25°43'40.60"N</td><td>79°23'23.30"E</td></tr><tr><td>E</td><td>25°43'23.30"N</td><td>79°22'53.70"E</td></tr><tr><td>F</td><td>25°43'18.60"N</td><td>79°22'46.80"E</td></tr></table>			Sanctioned Area			Points	Latitude	Longitude	A	25°43'24.10"N	79°22'42.50"E	B	25°43'28.30"N	79°22'48.90"E	C	25°43'45.00"N	79°23'20.60"E	D	25°43'40.60"N	79°23'23.30"E	E	25°43'23.30"N	79°22'53.70"E	F	25°43'18.60"N	79°22'46.80"E
Sanctioned Area																											
Points	Latitude	Longitude																									
A	25°43'24.10"N	79°22'42.50"E																									
B	25°43'28.30"N	79°22'48.90"E																									
C	25°43'45.00"N	79°23'20.60"E																									
D	25°43'40.60"N	79°23'23.30"E																									
E	25°43'23.30"N	79°22'53.70"E																									
F	25°43'18.60"N	79°22'46.80"E																									
17. Total Geological Reserves	3,02,614 m ³																										
18. Total Mineable Reserves in LOI	1,80,000 m ³ /year																										
19. Total Proposed Production	1,80,000 m ³ /year (9,00,000 m ³ in 05 years)																										
20. Proposed Production/year	1,80,000 m ³																										
21. Sanctioned Period of Mine lease	5 years																										
22. Production of mine/day	655 m ³ /day																										
23. Method of Mining	Bar Scalping or Skimming method (Semi mechanized/ OTFM- Other than fully mechanized, as per IBM & SSMG, 2016) using: <ul style="list-style-type: none">• Scraper/light earth movers• Chain based Bulldozer for rescue & salvage• Loader• Truck & tractors for transportation																										
24. No. of working days	275 days																										
25. Working hours/day	12 hours																										
26. No. Of workers	Approximately 57 labours																										
27. No. Of vehicles movement/day	44 units																										
28. Type of Land	Non – Agricultural, Government Waste Land (Revenue land)																										
29. Ultimate Depth of Mining	3 m																										
30. Nearest metalled road from site	SH 21 (Lakhimpur-Sitapur-Panwari Marg): 9.0 km (SE)																										
31. Water Requirement	PURPOSE	REQUIREMENT (KLD)																									
	Drinking	1.20																									

	Suppression of dust	6.0
	Plantation	0.05
	Others (Stored water)	0.10
	Total	7.35 KLD
32. Name of QCI Accredited Consultant with QCI No and period of validity.	ENV Development Assistance Systems (I) Pvt. Ltd. NABET/EIA/1821/SA 102 and Valid till 25/02/2021.	
33. Any litigation pending against the project or land in any court	None	
34. Details of 500 m Cluster Map & certificate verified by Mining Officer	Cluster certificate issued by District Mines Officer, Jhansi Letter No.1556/30MMC/(2019-20), Jhansi dated 31/01/2020	
35. Details of Lease Area in approved DSR	Page 52, Table No. 13, Sl. No. 02 (as per corrigendum dated 04.03.2020 issued by District Mines Officer, Jhansi)	
36. Proposed CER cost	2% of total project cost i.e. Rs. 1,65,8276/-	
37. Proposed EMP cost/ Total Project Cost	Rs. 23,86,812/- & 8,29,13813/- respectively	
38. Length and Width of Haul Road	Unpaved Length 0.50 km and Paved Length 1.91 km and 6 m width	
39. No. of Trees to be Planted	100	

- The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
- This project does not attract any of the general conditions applicable on mining projects specified in EIA Notification 14/09/2006.
- The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
- There is no litigation pending in any court regarding this project.
- The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-06

The committee discussed the matter and recommended to issue the terms of reference (TOR) for the preparation of EIA as annexed at annexure-3 to these minutes.

7. Morrum Mining on Betwa River bed at Gata No.-267, 268, Khand No.-02, Village-Kyotra, Kalpi, Jalaun.,M/s MK Mines and Minerals, Area-18.218 Ha File No 5546 proposal No. SIA/UP/MIN/51507/2020

A presentation was made by the project proponent through video/tele-conferencing/ email in view of the Corona Virus Disease (Covid-19) along with their consultant Cognizance Research India Pvt Ltd. The proponent, through the documents submitted and the presentation made informed the committee that:-

- The environmental clearance is sought for Sand/ Morrum Mining at Khand No. 02,Gata No.267 and 268, Village- Kyotra, Tehsil-Kalpi, District- Jalaun, U.P., M/s M K Mines and Minerals, (Leased Area 18.218, ha).
- Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/51507/2020
2. File No. allotted by SEIAA, UP	5546
3. Name of Proponent	Shri Anwar Alam Khan

4. Full correspondence address of proponent and mobile No.	MayurVihar Colony, Medical College Jhansi, District- Jhansi (U.P.)		
	Mobile No-		
	Email-		
5. Name of Project	Proposed riverbed Sand/Morrum mining project from Betwa River for M/s M K Mines and Minerals.		
6. Project location (Plot/Khasra/Gata No.)	Gata No. 267 and 268, Khand No. 02		
7. Name of River	Betwa		
8. Name of Village	Kyotra		
9. Tehsil	Kalpi		
10. District	Jalaun		
11. Name of Minor Mineral	Sand/Morrum		
12. Sanctioned Lease Area (in Ha.)	18.218		
13. Max & Min mRL within lease area	Max- 105 mRL and Min- 103.6 mRL		
14. Pillar Coordinates (Verified by DMO)	Pillar No.	Latitude	Longitude
	A	25°52'14.26"N	79°46'44.63"E
	B	25°52'8.11"N	79°46'58.56"E
	C	25°51'54.90"N	79°46'53.00"E
	D	25°52'3.24"N	79°46'38.56"E
15. Total Geological Reserves	4,22,928 cum		
16. Total Mineable Reserves in LOI	1,82,180 cum		
17. Total Proposed Production	9,10,900 cum		
18. 22. Proposed Production/year	1,82,180 cum		
19. Sanctioned Period of Mine lease	5 years		
20. Production of mine/day	700.69		
21. Method of Mining	Open Cast Semi-mechanized Method		
22. No. of working days	260 days		
23. Working hours/day	8 hrs		
24. No. of workers	78		
25. No. of vehicles movement/day	30		
26. Type of Land	Government waste land		
27. Ultimate Depth of Mining	1.4		
28. Nearest metalled road from site	1.1 km		
29. Water Requirement	PURPOSE	REQUIREMENT (KLD)	
	Drinking	0.78	
	Suppression of dust	6.26	
	Plantation	0.22	

	Others (if any)	-
	Total	7.26
30. Name of QCI Accredited Consultant with QCI No and period of validity.	Cognizance Research India Pvt Ltd. 1922, validity= 03-02-2022	
31. Any litigation pending against the project or land in any court	No	
32. Details of 500 m Cluster Map & certificate issued by Mining Officer	Yes, 707/ Khanij M M C- 30	
33. Details of Lease Area in approved DSR	Yes, Page No. 55 Sl. No. 55	
34. Proposed CER cost	Rs 17,00,000 /-	
35. Proposed EMP cost	Rs23,74,400 /-	
36. Length and breadth of Haul Road	Length: 0.522 km, width: 6 m	
37. No. of Trees to be Planted	550 plants	

3. The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
4. This project does not attract any of the general conditions applicable on mining projects specified in EIA Notification 14/09/2006.
5. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
6. There is no litigation pending in any court regarding this project.
7. The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-07

The committee discussed the matter and recommended to issue the terms of reference (TOR) for the preparation of EIA as annexed at annexure-3 to these minutes with following additional condition:

1. According to Google Earth image, most of the area is submerged. Average ultimate depth and volume of sand as per SSMG 2016 should be verified by competent authority(DGM /DM/DMO)

8. Sand/Moorum Mining at Gata No.-1419 Kha, Khand No.-01, Village- Dhamnaud, Tehsil- Garautha, District- Jhansi, U.P. Area-24.00 Ha File No 5578 proposal No. SIA/UP/MIN/51976/2020

A presentation was made by the project proponent through video/tele-conferencing/ email in view of the Corona Virus Disease (Covid-19) along with their consultant Ind Tech House Consult. The proponent, through the documents submitted and the presentation made informed the committee that:-

1. The Environmental Clearance is sought for Sand/ Morrum Mining at Gata No. 1419 Kha Khand No.- 01, Village- Dhamnad Tehsil- Garautha ,District- Jhansi U.P. Sri Vipin Kumar Saxena S/o Sri Om Prakash Saxena (Leased Area – 24.00, ha)
2. Salient features of the project as submitted by the project proponent:

1.	On Line Proposal No.	SIA/UP/MIN/51976/2020
2.	File No. allotted by SEIAA, UP	5578

3.	Name of Proponent	Sri Vipin Kumar Saxena S/o Sri Om Prakash Saxena		
4.	Full correspondence address of proponent and mobile no.	R/o- MIG –A/135 , Aashiyana Pratham , Tehsil and District Moradabad U.P		
5.	Name of Project	Area- (24.00 ha) On Dhasan River For Sand/ Morrum Mining at Gata No. 1419 Kha Khand No.- 01, Village- Dhamnad Tehsil- Garautha ,District- Jhansi U.P. Sri Vipin Kumar Saxena S/o Sri Om Prakash Saxena		
6.	Project Location(Plot.Khsra/Gata No.)	Gata No. 1419 Kha Khand No.- 01		
7.	Name of River	Dhasan River		
8.	Name of Village	Dhamnad		
9.	Tehsil	Garautha		
10.	District	Jhansi		
11.	Name of Minor Mineral	Sand/Morrum		
12.	Sanctioned Lease Area (in Ha.)	24.0 Ha.		
13.	Max. & Min mRL within lease area	121.0 mRL & 128.5 mRL		
14.	Pillar Coordinates (Verified by DMO)	POINT	LATTITUDE	LONGITUDE
		A	25°40'42.00"N	79°23'03.70"E
		B	25°40'51.10"N	79°23'04.40"E
		C	25°40'59.60"N	79°23'06.10"E
		D	25°41'04.40"N	79°23'04.10"E
		E	25°41'08.80"N	79°23'01.50"E
		F	25°41'11.80"N	79°22'58.40"E
		G	25°41'15.60"N	79°22'52.10"E
		H	25°41'22.17"N	79°22'37.78"E
		I	25°41'25.13"N	79°22'38.44"E
		J	25°41'20.80"N	79°22'54.50"E
		K	25°41'16.30"N	79°23'03.60"E
		L	25°41'07.90"N	79°23'10.00"E
		M	25°40'57.30"N	79°23'11.60"E
		N	25°40'54.80"N	79°23'10.90"E
		O	25°40'48.30"N	79°23'08.40"E
		P	25°40'40.31"N	79°23'03.62"E
15.	Total Geological Reserves	7,20,000m ³ /Annum		
16.	Total Mineable Reserve	2,55,767m ³ /Annum		

17.	Total Proposed Production in LOI	2,50,000 m ³ /Annum	
18.	Proposed Production /year	Year	Production
		1 st	2,50,000 m ³ /Annum
		2 nd	2,50,000 m ³ /Annum
		3 rd	2,50,000 m ³ /Annum
		4 th	2,50,000 m ³ /Annum
		5 th	2,50,000 m ³ /Annum
		Total	12,50,000 m ³
19.	Sanctioned Period of Mine lease	5 Years	
20.	Production of mine/day	1111 m ³ /Day	
21.	Method of Mining	Open cast Manual / Semi Mechanized Mining Method /Bar Scalping or Skimming Method (as per IBM Rules & SSMMG, 2016 MoEF & CC ,GOI)	
22.	No. of working days	225 Days	
23.	Working hours/day	8 Hours	
24.	No. of worker	90 Worker	
25.	No. of vehicles movement/day	123Trucks / Day	
26.	Type of Land	River Bed (Govt. Land)	
27.	Ultimate of Depth of Mining	1.3 m	
28.	Nearest metalled road from site	1.0 Km	
29.	Water Requirement	PURPOSE	REQUIREMENT (KLD)
30.		Drinking	0.9
31.		Suppression of dust	12.0
32.		Plantation	3.17
33.		Others (if any)	
34.		Total	16.07 KLD
35.	Name of QCI Accredited Consultant with QCI No and period of validity.	Ind Tech House Consult QCI No.84 Period of Validity- 31-01-2021	

36.	Any litigation pending against the project or land in any court	No
37.	Details of 500 m Cluster Map & Certificate verified by Mining Officer	Letter No1630/30 M.M.C /(2019-20) Date-03.02.2020
38.	Details of Lease Area in approved DSR	Yes (Page No: 52, Table No:13 & Sr, No: 01)
39.	Proposed CER cost	2.80 Lac
40.	Proposed EMP cost	23.01 Lac
41.	Length and breadth of Haul Road	1000 mtr Length & 6m width haulage road
42.	No. of Trees to be Planted	792 Trees

- The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
- This project does not attract any of the general conditions applicable on mining projects specified in EIA Notification 14/09/2006.
- The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
- There is no litigation pending in any court regarding this project.
- The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-08

The committee discussed the matter and recommended to issue the terms of reference (TOR) for the preparation of EIA as annexed at annexure-3 to these minutes.

9. Sand/Morrum Mining from Sukhani River at Gata No.- 1984 & 01, Khand No.- 3, Village-Dhawakar/Sitaura, Teh.- Mauranipur, Jhansi, Area-09.0 ha. File no 5579/proposal No. SIA/UP/MIN/52014/2020

A presentation was made by the project proponent through video/tele-conferencing/ email in view of the Corona Virus Disease (Covid-19) along with their consultant ENV Development Assistance Systems (I) Pvt. Ltd. The proponent, through the documents submitted and the presentation made informed the committee that:-

- The Environmental Clearance is sought for Sand/Morrum Mining from Sukhani River at Gata No.- 1984 & 01, Khand No.- 3, Village- Dhawakar/Sitaura, Teh.- Mauranipur, Jhansi, Area-09.0 ha.
- Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/52014/2020
2. File No. allotted by SEIAA, UP	5579
3. Name of Proponent	Shri Dinesh Kumar Rajpoot

4. Full correspondence address of proponent and mobile no.	Shri Dinesh Kumar Rajpoot S/o Shri Manohar Lal Rajpoot Proprietor- Shri Dinesh Kumar Rajpoot H. No. Mo. Parwaripura, Mauranipur, Jhansi, U.P.		
5. Name of Project	Sand/Morrum Mining		
6. Project location (Plot/Khasra/Gata No.)	Gata No. 1984 Mi. & 01		
7. Name of River	Sukhnai		
8. Name of Village	Dhawakar/ Sitaura		
9. Tehsil	Mauranipur		
10. District	Jhansi		
11. Name of Minor Mineral	Sand/Morrum		
12. Sanctioned Lease Area (in ha)	9.0 ha		
13. Mineable Area (in ha)	9.0 ha		
14. Zero level mRL	183 mRL		
15. Max. & Min mrl within lease area	190 mRL and 187 mRL		
16. Pillar Coordinates (Verified by DMO)	Sanctioned Area		
	Points	Latitude	Longitude
	A	25°16'16.00"N	79°11'52.00"E
	B	25°16'18.40"N	79°11'51.40"E
	C	25°16'28.50"N	79°12'18.10"E
	D	25°16'32.60"N	79°12'32.70"E
	E	25°16'38.90"N	79°12'41.80"E
	F	25°16'37.50"N	79°12'43.70"E
	G	25°16'34.30"N	79°12'41.50"E
	H	25°16'30.00"N	79°12'34.10"E
	I	25°16'28.50"N	79°12'26.40"E
	J	25°16'27.50"N	79°12'21.60"E
17. Total Geological Reserves	67,500 m ³		
18. Total Mineable Reserves in LOI	35,000 m ³ /year		
19. Total Proposed Production	35,000 m ³ /year (1,75,000 m ³ in 05 years)		
20. Proposed Production/year	35,000 m ³		
21. Sanctioned Period of Mine lease	5 years		
22. Production of mine/day	127.27 say 128 m ³ /day		
23. Method of Mining	Bar Scalping or Skimming method (Semi mechanized/ OTFM- Other than fully mechanized, as per IBM & SSMG, 2016) using: <ul style="list-style-type: none"> • Scraper/light earth movers • Chain based Bulldozer for rescue & salvage • Loader • Truck & tractors for transportation 		
24. No. of working days	275 days		
25. Working hours/day	12 hours		
26. No. Of workers	Approximately 62 labours		
27. No. Of vehicles movement/day	8.5 say 9 units		
28. Type of Land	Non – Agricultural, Government Waste Land (Revenue land)		
29. Ultimate Depth of Mining	3 m		

30. Nearest metalled road from site	SH 42(Hamirpur–Gursarai–Jhansi Marg)- 2.5 km (NW)	
31. Water Requirement	PURPOSE	REQUIREMENT (KLD)
	Drinking	0.52
	Suppression of dust	21.28
	Plantation	0.023
	Others (Stored water)	0.10
	Total	21.92 KLD
32. Name of QCI Accredited Consultant with QCI No and period of validity.	ENV Development Assistance Systems (I) Pvt. Ltd. NABET/EIA/1821/SA 102 and Valid till 25/02/2021.	
33. Any litigation pending against the project or land in any court	None	
34. Details of 500 m Cluster Map & certificate verified by Mining Officer	Cluster certificate issued by District Mines Officer, Jhansi Letter No. 1626/30MMC/(2019-20) dated 03/02/2020	
35. Details of Lease Area in approved DSR	Page 52, Table No. 13, Sl. No. 16 (as per corrigendum dated 04.03.2020 issued by District Mines Officer, Jhansi)	
36. Proposed CER cost	2% of total project cost i.e. Rs. 14,04,000/-	
37. Proposed EMP cost/ Total Project Cost	Rs. 43,77,171/- & 7,02,00,000/- respectively	
38. Length and Width of Haul Road	Unpaved Length 0.62 km and Paved Length 1 km and 6 m width	
39. No. of Trees to be Planted	45	

- The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
- This project does not attract any of the general conditions applicable on mining projects specified in EIA Notification 14/09/2006.
- The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
- There is no litigation pending in any court regarding this project.
- The project proposal falls under category–1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-09

The committee discussed the matter and recommended to issue the terms of reference (TOR) for the preparation of EIA as annexed at annexure-3 to these minutes.

10. Sand/Morrum Mining at Gata No.-1984Mi & 2009,Village- Dhawakar, Tehsil- Mauranipur, District- Jhansi, U.P., Area-12.140 ha File no 5580 proposal No. SIA/UP/MIN/52040/2020

A presentation was made by the project proponent through video/tele-conferencing/ email in view of the Corona Virus Disease (Covid-19) along with their consultant Ind Tech House Consult. The proponent, through the documents submitted and the presentation made informed the committee that:-

- The Environmental Clearance is sought for Sand/ Morrum Mining at Gata No. 1984mi & 2009, Village- Dhawakar Tehsil- Mauranipur ,District- Jhansi U.P. Smt. Pista Devi w/o Sri Sunil Rai (Leased Area – 12.140 ha)
- Salient features of the project as submitted by the project proponent:

1.	On Line Proposal No.	SIA/UP/MIN/52040/2020
2.	File No. allotted by SEIAA, UP	5580

3.	Name of Proponent	Smt. Pista Devi w/o Sri Sunil Rai		
4.	Full correspondence address of proponent and mobile no.	R/o- village -Badora , Tehsil- Jhansi and District Jhansi U.P		
5.	Name of Project	Area- (12.140 ha) On Sukhnai River For Sand/ Morrum Mining at Gata No. 1984mi & 2009, Village- Dhawakar Tehsil- Mauranipur ,District- Jhansi U.P. Smt. Pista Devi w/o Sri Sunil Rai		
6.	Project Location(Plot.Khsra/Gata No.)	Gata No. 1984mi & 2009		
7.	Name of River	Sukhnai River		
8.	Name of Village	Dhawakar		
9.	Tehsil	Jhansi		
10	District	Jhansi		
11	Name of Minor Mineral	Sand/Morrum		
12	Sanctioned Lease Area (in Ha.)	12.140 Ha.		
13	Max. & Min mRL within lease area	186.0 mRL & 189.0 mRL		
14	Pillar Coordinates (Verified by DMO)	POINT	LATTITUDE	LONGITUDE
		A	25°15'52.40"N	79°10'54.20"E
		B	25°15'54.90"N	79°10'51.40"E
		C	25°16'3.40"N	79°11'5.10"E
		D	25°16'3.40"N	79°11'19.30"E
		E	25°16'18.40"N	79°11'50.90"E
		F	25°16'15.90"N	79°11'51.40"E
		G	25°16'4.20"N	79°11'29.60"E
		H	25°15'59.50"N	79°11'17.80"E
		I	25°16'1.30"N	79°11'9.10"E
15	Total Geological Reserves	3,54,633m ³ /Annum		
16	Total Mineable Reserve	33486m ³ /Annum		
17	Total Proposed Production in LOI	20,000 m ³ /Annum		
18	Proposed Production /year	Year	Production	
		1 st	20,000 m ³ /Annum	
		2 nd	20,000 m ³ /Annum	
		3 rd	20,000 m ³ /Annum	

		4 th	20,000 m ³ /Annum
		5 th	20,000 m ³ /Annum
		Total	1,00,000 m ³
19	Sanctioned Period of Mine lease	5 Years	
20	Production of mine/day	89 m ³ /Day	
21	Method of Mining	Open cast Manual / Semi Mechanized Mining Method /Bar Scalping or Skimming Method (as per IBM Rules & SSMMG, 2016 MoEF & CC ,GOI)	
22	No. of working days	225 Days	
23	Working hours/day	8 Hours	
24	No. of worker	25 Worker	
25	No. of vehicles movement/day	10 Trucks / Day	
26	Type of Land	River Bed (Govt. Land)	
27	Ultimate of Depth of Mining	0.5 m	
28	Nearest metalled road from site	1.0 Km	
29	Water Requirement	PURPOSE	REQUIREMENT (KLD)
30		Drinking	0.25
31		Suppression of dust	12.0
32		Plantation	1.60
33		Others (if any)	
34		Total	13.85 KLD
35	Name of QCI Accredited Consultant with QCI No and period of validity.	Ind Tech House Consult QCI No.84 Period of Validity- 31-01-2021	
36	Any litigation pending against the project or land in any court	No	
37	Details of 500 m Cluster Map & Certificate verified by Mining Officer	Letter No1650/30 M.M.C /(2019-20) Date-06.02.2020	
38	Details of Lease Area in approved DSR	Yes (Page No: 51, Table No: 09 & Sr. No: 15)	

39	Proposed CER cost	1.60Lac
40	Proposed EMP cost	18.71 Lac
41	Length and breadth of Haul Road	1000 mtr Length & 6m width haulage road
42	No. of Trees to be Planted	401 Trees

3. The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
4. This project does not attract any of the general conditions applicable on mining projects specified in EIA Notification 14/09/2006.
5. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
6. There is no litigation pending in any court regarding this project.
7. The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-10

The committee discussed the matter and recommended to issue the terms of reference (TOR) for the preparation of EIA as annexed at annexure-3 to these minutes.

(Dr. Virendra Misra)
Member

(Dr. Pramod Kumar Mishra)
Member

(Dr. Ranjeet Kumar Dalela)
Member

(Shri Meraj Uddin)
Member

(Dr. Ajoy Mandal)
Member

(Rajiv kumar)
Member

(Dr. Sarita Sinha)
Member

(Dr. (Prof.) S. N. Singh)
Chairman

Annexure-1

GENERAL CONDITIONS PRESCRIBED BY SEIAA/SEAC, UP FOR SAND/MORUM MINING PROPOSALS

General Conditions:

1. This environmental clearance is subject to allotment of mining lease in favour of project proponent by District Administration/Mining Department.
2. Forest clearance shall be taken by the proponent as necessary under law.
3. Any change in mining area, khasra numbers, entailing capacity addition with change in process and or mining technology, modernization and scope of working shall again require prior Environmental Clearance as per the provisions of EIA Notification, 2006 (as amended).
4. Precise mining area will be jointly demarcated at site by project proponent and officials of Mining/Revenue department prior to starting of mining operations. Such site plan, duly verified by competent authority along-with copy of the Environmental Clearance letter will be displayed on a hoarding/board at the site. A copy of site plan will also be submitted to SEIAA within a period of 02 months.
5. Mining and loading shall be done only within day hours time.
6. No mining shall be carried out in the safety zone of any bridge and/or embankment.
7. It shall be ensured that standards related to ambient air quality/effluent as prescribed by the Ministry of Environment & Forests are strictly complied with. Water sprinklers and other dust control majors should be applied to take-care of dust generated during mining operation. Sprinkling of water on haul roads to control dust will be ensured by the project proponent.
8. All necessary statutory clearances shall be obtained before start of mining operations. If this condition is violated, the clearance shall be automatically deemed to have been cancelled.
9. Parking of vehicles should not be made on public places.
10. No tree-felling will be done in the leased area, except only with the permission of Forest Department.
11. No wildlife habitat will be infringed.
12. It shall be ensured that excavation of minor mineral does not disturb or change the underlying soil characteristics of the river bed /basin, where mining is carried out.
13. It shall be ensured that mining operation of Sand/Moram will not in any way disturb the, velocity and flow pattern of the river water significantly.
14. It shall be ensured that there is no fauna dependant on the river bed or areas close to mining for its nesting. A report on the same, vetted by the competent authority shall be submitted to the RO, PCB and SEIAA within 02 months.
15. Primary survey of flora and fauna shall be carried out and data shall be submitted to the RO, PCB and SEIAA within six months.
16. Hydro-geological study shall be carried out by a reputed organization/institute within six months and establish that mining in the said area will not adversely affect the ground water regime. The report shall be submitted to the RO, PCB and SEIAA within six months. In case adverse impact is observed /anticipated, mining shall not be carried out.
17. Adequate protection against dust and other environmental pollution due to mining shall be made so that the habitations (if any) close by the lease area are not adversely affected. The status of implementation of measures taken shall be reported to the RO, UPPCB and SEIAA and this activity should be completed before the start of sand mining.
18. Need-based assessment for the nearby villages shall be conducted to study economic measures which can help in improving the quality of life of economically weaker section of society. Income generating projects/tools such as development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program me. The project proponent shall provide separate budget for community development activities and income generating programmes.

19. Green cover development shall be carried out following CPCB guidelines including selection of plant species and in consultation with the local DFO/Horticulture Officer.
20. Separate stock piles shall be maintained for excavated top soil, if any, and the top soil should be utilized for green cover/tree plantation.
21. Dispensary facilities for first-aid shall be provided at site.
22. An Environmental Audit should be annually carried out during the operational phase and submitted to the SEIAA.
23. The District Mining Officer should quarterly monitor compliance of the stipulated conditions. The project proponent will extend full cooperation to the District Mining Officer by furnishing the requisite data/information/monitoring reports. In case of any violations of stipulated conditions the District Mining Officer will report to SEIAA.
24. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard & soft copies) to the SEIAA, the District Officer and the respective Regional Office of the State Pollution Control Board by 1st June and 1st December every year.
25. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation and Urban Local Body.
26. Transportation of materials shall be done by covering the trucks / tractors with tarpaulin or other suitable mechanism to avoid fugitive emissions and spillage of mineral/dust.
27. Waste water, from temporary habitation campus be properly collected & treated before discharging into water bodies the treated effluent should conform to the standards prescribed by MoEF/CPCB.
28. Measures shall be taken for control of noise level to the limits prescribed by C.P.C.B.
29. Special Measures shall be adopted to protect the nearby settlements from the impacts of mining activities. Maintenance of Village roads through which transportation of minor minerals is to be undertaken, shall be carried-out by the project proponent regularly at his own expenses.
30. Measure for prevention & control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion, if any, shall be carried-out with geo textile matting or other suitable material.
31. Under corporate social responsibility a sum of 5% of the total project cost or total income whichever is higher is to be earmarked for total lease period. Its budget is to be separately maintained. CER component shall be prepared based on need of local habitant. Income generating measures which can help in upliftment of poor section of society, consistent with the traditional skills of the people shall be identified. The programme can include activities such as development of fodder farm, fruit bearing orchards, free distribution of smokeless Chula etc.
32. Possibility for adopting nearest three villages shall be explored and details of civic amenities such as roads, drinking water etc proposed to be provided at the project proponent's expenses shall be submitted within 02 months from the date of issuance of Environment Clearance.
33. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Lucknow, SEIAA, U.P and UPPCB.
34. Action plan with respect to suggestion/improvement and recommendations made and agreed during Public Hearing shall be submitted to the District mines Officer, concern Regional Officer of UPPCB and SEIAA within 02 months.
35. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, if applicable to this project.
36. The proponent shall observe every 15 day for nesting of any turtle in the area. Based on the observations so made, if turtle nesting is observed, necessary safeguard measures shall be taken in consultation with the State Wildlife Department. For the purpose, awareness shall be created amongst the workers about the nesting sites so that such sites, if any, are identified by the workers during operations of the mine for taking required

safeguard measures. In this regards the safety notified zone should be left so that the habitat/nesting area is undisturbed.

37. The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro geological regime of the surrounding area shall not be affected.
38. The project proponent shall obtain necessary prior permission of the competent Authorities for withdrawal of requisite quantity of water (surface water and groundwater), required for the project.
39. Appropriate mitigative measures shall be taken to prevent pollution of the river in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease in the river from the vehicles used for transportation.
40. Vehicular emissions shall be kept under control and regularly monitored. The vehicles carrying the mineral shall not be overloaded.
41. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. (MoEF circular Dated : 22-09-2008 regarding stipulation of condition to improve the living conditions of construction labour at site).
42. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
43. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
44. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail.
45. The green cover development/tree plantation is to be done in an area equivalent to 20% of the total leased area either on river bank or along road side (Avenue Plantation).
46. Debris from the river bed will be collected and stored at secured place and may be utilized for strengthen the embankment.
47. Safety measures to be taken for the safety of the people working at the mine lease area should be given, which would also include measure for treatment of bite of poisonous reptile/insect like snake.
48. Periodical and Annual medical checkup of workers as per Mines Act and they should be covered under ESI as per rule.

Annexure-2

Specific Conditions for Sand Moram Mining :-

1. The project proponent shall ensure that if the project area falls within the eco-sensitive zone of National park/ Sanctuary prior permission of statutory committee of National board for wild life under the provision of Wildlife (Protection) Act, 1972 shall be obtained before commencement of work.
2. If in future this lease area becomes part of cluster of equal to or more than 25 ha. then additional conditions based on the EIA shall be imposed. The lease holder shall mandatorily follow cluster conditions otherwise it will amount to violation of E.C. conditions. If the certificate related to cluster provided by the competent authority is found false or incorrect then punitive actions as per law shall be initiated against the authority issuing the cluster certificate.
3. The Environmental clearance will be co-terminus with the mining lease period.
4. Project falling within in 10 KM area of Wild Life Sanctuary is to obtain a clearance from National Board Wild Life (NBWL) even if the eco-sensitive zone is not earmarked.
5. To avoid ponding effect and adverse environmental conditions for sand mining in area, progressive mining should be done as per sustainable sand mining management guidelines 2016.
6. Geo coordinates should be verified by Director, DGM/District Magistrate/Regional Mining Officer/NHAI and should be submitted to SEIAA/SEAC, Secretariat as earliest.
7. In case it has been found that the E.C. obtained by providing incorrect information, submitting that the distance between the two adjoining mines is greater than 500mt. and area is less than 25ha, but factually the distance is less than 500 mt and the mine is located in cluster of area equal or more than 25ha, the E.C issued will stand revoked.
8. The project proponent shall in 2 years conduct detailed replenishment study duly authenticated by a QCI-NABET accredited consultant, and the District Mines Officer which shall form the basis for midterm review of conditions of Environmental Clearance.
9. The mining work will be open-cast and manual/semi mechanized (subject to order of Hon'ble NGT/Hon'ble Courts (s)). Heavy machine such as excavator, scooper etc. should not be employed for mining purpose. No drilling/blasting should be involved at any stage.
10. It shall be ensured that there shall be no mining of any type within 03 m or 10% of the width whichever is less, shall be left on both the banks of precise area to control and avoid erosion of river bank. The mining is confined to extraction of sand/moram from the river bank only.
11. The project proponent shall undertake adequate safeguard measures during extraction of river bank material and ensure that due to this activity the hydro-geological regime of the surrounding area shall not be affected.
12. The project proponent shall adhere to mining in conformity to plan submitted for the mine lease conditions and the Rules prescribed in this regard clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left un-worked (Non mining area), distance from the bridges etc. It shall be ensured that no mining shall be carried out during the monsoon season.
13. The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.
14. The project proponent will provide personal protective equipment (PPE) as required, also provide adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
15. The critical parameters such as PM10, PM2.5, SO2 and NOx in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water if any shall also be monitored [(TDS, DO, pH, Fecal Coliform and Total Suspended Solids (TSS)].
16. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads.
17. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
18. The extended mining scheme will be submitted by the proponent before expiry of present mining plan.

19. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, SO2 and NOx. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
20. Common road for transportation of mineral is to be maintained collectively. Total cost will be shared/worked out on the basis of lease area among users.
21. Proponent will provide adequate sanitary facility in the form of mobile toilets to the labours engaged for the project work.
22. Solid waste material viz., gutkha pouchs, plastic bags, glasses etc. to be generated during project activity will be separately storage in bins and managed as per Solid Waste Management rules.
23. Green area/belt to be developed along haulage road in consultation of Gram Sabha/Panchyat.
24. Natural/customary paths used by villagers should not be obstructed at any time by the activities proposed under the project.
25. Digital processing of the entire lease area in the district using remote sensing technique should be done regularly once in three years for monitoring the change of river course by Directorate of Geology and Mining, Govt. of Uttar Pradesh. The record of such study to be maintained and report be submitted to Regional office of MoEF, SEIAA, U.P. and UPPCB.
26. A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal. The clearance letter shall also be put on the website of the company.
27. State Pollution Control Board shall display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/Tehsildar's Office for 30 days.
28. The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the SEIAA at <http://www.seiaaup.in> and a copy of the same shall be forwarded to the Regional Office of the Ministry located in Lucknow, CPCB, State PCB.
29. The MoEF/SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
30. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
31. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.
32. Waste water from potable use be collected and reused for sprinkling.
33. During the school opening and closing time vehicle movement will be restricted.
34. A width of not less than 50 meter or 10% width of river can be restricted for mining activities from river bank. A condition can be imposed that mining will be done from river activities from river bank.

Annexure-3

Terms of Reference for the Mining Project

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The 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, may also be detailed in the EIA Report.
- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary

claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.

- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic

- aspects should be discussed in the Report.
- 22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
 - 23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
 - 24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
 - 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
 - 26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
 - 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
 - 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
 - 29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
 - 30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
 - 31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
 - 32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project

- area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
 - 34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
 - 35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
 - 36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
 - 37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
 - 38) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
 - 39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
 - 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
 - 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
 - 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
 - 43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
 - 44) Besides the above, the below mentioned general points are also to be followed:-
 - a) Executive Summary of the EIA/EMP Report
 - b) All documents to be properly referenced with index and continuous page numbering.
 - c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
 - e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - g) While preparing the EIA report, the instructions for the Proponents and instructions for the

Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.

- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- j) The EIA report should also include: (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.