



सत्यमेव जयते

File No: JKEAC/2025/135

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority(SEIAA),
JAMMU AND KASHMIR)



Dated 19/08/2025



To,

ZORAWAR SINGH
ZORAWAR SINGH
Chak Rakhwalan, Kandoli Nagrota, Jammu, JAMMU, JAMMU AND KASHMIR, 181221
zorawar.mine@gmail.com

Subject: Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application for Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding in respect of project Proposed RBM (River Bed Material) Minor Mineral Block Mining Project, proposal for obtaining Block-II/V an area of 9.47 ha, at Tawi River Upstream Jaganco Bridge, District- Udhampur, J&K. U.T. Environmental Clearance submitted to Ministry vide proposal number SIA/JK/MIN/509046/2024 dated 02/05/2025.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO24B0107JK5360483N
(ii) File No.	JKEAC/2025/135
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals Proposed RBM (River Bed Material) Minor Mineral Block Mining Project, proposal for obtaining Block-II/V an area of 9.47 ha, at Tawi River Upstream Jaganco Bridge, District- Udhampur, J&K. U.T. Environmental Clearance
(vii) Name of Project	ZORAWAR SINGH
(viii) Name of Company/Organization	UDHAMPUR, JAMMU AND KASHMIR
(ix) Location of Project (District, State)	SEIAA
(x) Issuing Authority	no
(xi) Applicability of General Conditions	no
(xii) Applicability of Specific Conditions	no

N/A



Government of India

Ministry of Environment, Forest & Climate Change

J&K ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

(at) DEPARTMENT OF ECOLOGY, ENVIRONMENT AND REMOTE SENSING

S.D.A. Colony, Bemina, Srinagar-190018 (May-Oct)/ Paryavaran Bhawan, Transport Nagar, Gladni, Jammu-180006 (Nov-Apr)

ms-jkeiaa@jk.gov.in, website:www.parivesh.nic.in/www.jkdeers.jk.gov.in



Sh. Zorawar Singh,
R/o Chak Rakhwalan
Kandoli Nagrota
District Jammu
e-mail:- zorawar.mine@gmail.com

No. JKEIAA/RBM/2025/729/3104-08

Dated:- 18-08-2025

Subject: Grant of Terms of Reference for Proposed RBM (River Bed Material) Minor Mineral Block Mining Project, proposal for obtaining Block-II/V with an area of 9.47 ha, at Tawi River Upstream Jaganoo Bridge, District- Udhampur, J&K in favour of Sh. Zorawar Singh R/o Chak Rakhwalan, Kandoli Nagrota, Jammu under proposal No. SIA/JK/MIN/509046/2024.

Ref.:- Minutes of the 163rd meeting of JKEAC held on 19-06-2025.
Minutes of the 115th meeting of JKEIAA held on 08-08-2025.

Apropos to the surpa cited subject, the instant case was discussed in the forums of JKEIAA/JKEAC and accordingly, approval was accorded to grant Terms of Reference in favour of your project as per the approved General and Specific conditions.

Therefore, in pursuance to the EIA Notification 2006 read with amendments from time to time, you are advised to formulate the EIA, EMP & Public Hearing Reports and prepare other requisite documents as per check list (available on website www.jkdeers.jk.gov.in) through NABET accredited Consultant as per Terms of Reference (TOR) enclosed herewith and get the public hearing conducted for proposed Minor Mineral Block (River Bed Material) through J&K Pollution Control Committee. The EIA/EMP, public hearing reports & other requisite documents as per check list be uploaded on www.parivesh.nic.in while applying for Environmental Clearance for the proposed project.

The Terms of Reference so issued are subject to fulfillment of Standard Conditions & Specific/ Additional conditions made by JKEIAA/JKEAC as recorded in Minutes of Meetings and enclosed as **Annexure-A (RBM ToR)** to this letter.

Further, you are requested to simultaneously approach the Member Secretary, J&K Pollution Control Committee for seeking comments on Environmental Safeguards as per

MoEF&CC, GoI, SOP dated: 14.11.2024 read with OM dated: 14.01.2025 after depositing requisite fee for the purpose.

Sd/-
(Lal Chand), IFS,
(Retd.)
Chairman, JKEIAA

Copy to the:

1. Chairman, J&K Pollution Control Committee for favour of kind information and necessary action please.
2. Director, Geology and Mining Department, J&K for information and necessary action.
3. Member Secretary, JJ&K Pollution Control Committee for information and necessary action with the request to provide comments to Member Secretary, JKEAC on Environmental Safeguards in pursuance to the MoEF&CC, GoI, SOP dated: 14.11.2024 read with OM dated: 14.01.2025.
4. Member Secretary, JKEAC for favour of information and necessary action.



(Vasu Yadav) IFS/PCCF
Member Secretary, JKEIAA



GENERAL TERMS OF REFERENCE FOR PREPARATION OF EIA/EMP WITH RESPECT TO RIVER BED MINING PROJECT

STANDARD TERMS OF REFERENCE

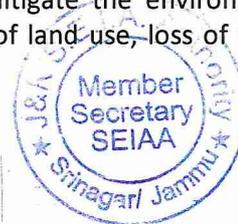
1. Year-wise production details should be given, clearly stating the highest production achieved in any one year.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing 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 areas 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 on high resolution satellite image on with 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 Committee's.



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' 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. 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.
21. 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.
22. Air quality modelling 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 modelling 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.



23. 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.
24. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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



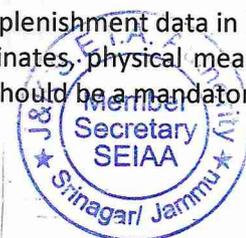
- grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
38. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
 39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
 40. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
 41. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
 42. 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.
 43. 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 measurements, (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.

SPECIFIC TERMS OF REFERENCE

1. The Letter of Intent (LoI) for the project shall be extended by the Geology and Mining Department, as the previously issued LoI has expired.
2. The Project Proponent (PP) shall submit an undertaking stating that the Terms of Reference (ToR) shall not be claimed if the LoI is not extended.
3. The Mining Plan should be revised to include actual measurements of bulk density or, in the absence of such measurements, a bulk density of 1.89 g/cm³ should be used.
4. Semi-mechanized methods, as disallowed by the Hon'ble NGT, should not be included in the mining plan.



5. The formation level shall be clearly indicated in the X' - X' section for proper assessment and planning. The DGPS survey, including cross-sections (C-sections) and longitudinal sections (L-sections), should be incorporated as per the suggestions of JKEAC.
6. The EMP and CER must be prepared with following provisions:
 - i. to protect dug wells, repair and regularly sprinkle the haulage route, and employ locals in mining operations.
 - ii. Anti-erosion works, construction of rainwater harvesting structures in consultation with the Jal Shakti Department.
 - iii. Establishment of village-level plant nurseries in consultation with the Forest Department, with native plants preferred during plantation activities.
 - iv. Provision of mobile tablets, computer systems, educational materials, school bags, uniforms, stationery, toilets, etc., for nearby schools.
 - v. Concerns raised during public hearing should be incorporated into the revised EMP and CER plans, ensuring comprehensive environmental and socio-economic benefits for the community.
7. Obtain a categorical No Objection Certificate (NoC) from the concerned department for presence of bridge near the mining block or revision of mining block to maintain a safe distance of 500m from the bridge, whichever applicable.
8. To submit a detailed site appreciation note/Executive Summary supported with a video and photographs, describing in detail the physical features of the mining site and structures viz. bridges, canal headworks, Zamindari Khuls if any existing within a reach of 500mts. from the downstream and the upstream ends of the mining block. The appreciation note will also describe the environmental settings i.e. agricultural lands if any located on the two banks, green patches in close vicinity of the mining block. The site appreciation note shall form an integral part of the EIA report as per decision of JKEIAA taken in its 38th Meeting.
9. The mining shall be restricted to 3/4th of the width of the river/riverlet or 7.5 m(inward) from river bank but upto 10% of the width of the river. While calculating targeted mineral production and while formulating the mining plan, the project proponent shall ensure that the area for removal of minerals shall not exceed 60% of the mine lease area, and any deviation or relaxation in this regard shall be adequately supported by the scientific report in accordance with Sand Mining Monitoring & Enforcement Guidelines of 2020.
10. Before conducting Public Hearing, the G&M Dept. shall temporarily mark the boundaries of the mining block in consultation with the concerned Revenue Authority and the JKPC so that locals know during the public Hearing where the mining block is located on ground as per decision of JKEIAA taken in its 38th Meeting.
11. A comprehensive chapter be included in the EIA report on Cost Benefit Analysis of the mining activity in the mining block underlining the environmental and social costs.
12. Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and top-soil loss due to change in topography.
13. Details of Gradient of riverbed and 3-D view draped on the satellite image
14. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr.
15. Details of transportation of mined out materials with respect to axle load specified for the road as per the Indian Road congress for both the ways (loaded as well as unloaded trucks) load and its impact on the environment.
16. Impact on mining activity on the existing land use in the study area.
17. Impact of mining on aquatic life.
18. NOCs from HoD/competent authority of Irrigation and Flood Control Dept. and Fisheries Dept. OR as specifically asked for in minutes of meeting should be obtained and submitted while applying for EC.
19. The quantification of river bed material be based on excavation only upto a maximum depth of 1 m in the riverbed or 1 m above water table whichever comes first to safeguard ecological conditions in view of non-availability of replenishment data in DSR.
20. A digitalised surface plan showing coordinates, physical measurements, river gradient and inter-cross sections at different intervals should be a mandatory part of mining plan



21. Specific measures to be undertaken to mitigate the impact of mining activity on the habitat and migration of fish in the river/stream and concurrence thereof from the Fisheries Department.
22. The Photography and videography of the mining block shall be part of the Terms of Reference.
23. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius
24. The shortest extraction route leading to the main road but with minimum interference with human settlements should be identified and described in detail. This along with the map and its KML file be part of an exclusive chapter in the EMP with adequate budget.
25. Dust suppression measures should be prescribed in the EIA/EMP with adequate budget
26. Post project monitoring plan should be included in the study.
27. Occupational health impacts should be assessed and plan for implementation of COVID 19 SOPs in the mining activity should be detailed.
28. The Consultant while presenting field data in the EIA report, should ensure that the site specific date-wise datasheets duly attested by the local panchayat head with his name, signatures and stamp and attested by District Mineral Officer with seal and signature are included in the EIA report.
29. The data displayed on air quality monitoring stations should be captured with digital camera displaying the dates on the photograph so captured and same should be submitted in support of the date-wise data sheets. These digital photographs should be submitted in soft as well as appended with the EIA report.
30. The impact of mining activity on the neighbouring villages needs to be studied and extraction road need to be such that it has least crossing through village settlements.
31. Mining shall be proposed manually.
32. While formulating the EIA/EMP documents, the mining guidelines of 2016 and 2020 issued by the MoEF&CC shall be strictly followed.
33. The prescribed TORs would be valid for a period of four years for submission of the EIA/EMP reports, as per the S.O. No. 751(E) dated 17th of Feb., 2020 or as per latest notifications from MoEF&CC.

Additional terms of reference

- a) PP shall submit valid Letter of Intent (LoI) at the time of submission of proposal for grant of Prior EC.
- b) The Project Proponent (PP) shall submit an undertaking stating that the Terms of Reference (ToR) shall not be claimed if the LoI is not extended.
- c) Revision of area by moving "F" point on KML towards the point "B" and point "C" and revise the mining plan
- d) The Mining Plan should be revised to include actual measurements of bulk density or, in the absence of such measurements, a bulk density of 1.89 g/cm³ should be used.
- e) Semi-mechanized methods, as disallowed by the Hon'ble NGT, should not be included in the mining plan.
- f) The formation level shall be clearly indicated in the X' - X' section for proper assessment and planning. The DGPS survey, including cross-sections (C-sections) and longitudinal sections (L-sections), should be incorporated as per the suggestions of JKEAC.
- g) The EMP and CER must be prepared with following provisions:
 - i. to protect dug wells, repair and regularly sprinkle the haulage route, and employ locals in mining operations.
 - ii. Anti-erosion works, construction of rainwater harvesting structures in consultation with the Jal Shakti Department.
 - iii. Establishment of village-level plant nurseries in consultation with the Forest Department, with native plants preferred during plantation activities.



- iv. Provision of mobile tablets, computer systems, educational materials, school bags, uniforms, stationery, toilets, etc., for nearby schools.
- v. Concerns raised during public hearing should be incorporated into the EMP and CER plans, ensuring comprehensive environmental and socio-economic benefits for the community.
- vi. Conditions as suggested by JKPCC.

