



**Ministry of Environment, Forest & Climate Change, Govt. of India.
J&K UT LEVEL EXPERT APPRAISAL COMMITTEE(JKEAC)**



Department of Ecology, Environment & Remote Sensing
Paryavaran Bhavan, Gladeni, Transport Nagar, Narwal, Jammu Tawi(November-April)
SDA Housing Colony, Bemina, Srinagar, Kashmir(May-October)
Email: seacers@gmail.com, Website:www.parivesh.nic.in

MINUTES OF MEETING

MINUTES OF 37th MEETING OF THE JK EXPERT APPRAISAL COMMITTEE HELD ON 22/04/2021 VIA VIDEO CONFERENCING OWING TO COVID-19 OUTBREAK AND SUBSEQUENT MITIGATIVE MEASURES

In pursuance to meeting Notice issued vide No: EAC/JK/20/6680-708 dated: 16.04.2021 the 37th meeting of JKEAC was held on 22nd of April, 2021 via video Conferencing. The following members attended the meeting on the said dates: -

1. Mr. S.C. Sharma, IFS(Rtd.)	Chairman
2. Mr. M.A Tak, IFS(Rtd.)	Member
3. Engineer BB Sharma	Member
4. Prof. Falendra Kumar Sudaan	Member
5. Mr. A.R.Makroo	Member
6. Prof. Anil Kr.Raina	Member
7. Prof. Arvind Jasrotia	Member
8. Professor G.M. Dar	Member
9. Mr. Humayun Rashid	Secretary

The Secretary welcomed the Chairman, Members of the JK Level Expert Appraisal Committee, , the participating project proponents and the consultants.

The meeting proceeded as per following sequence: -

Agenda Item No: 01	Grant of Environment Clearance in favour of M/S RAMAN KUMAR S/O SHRI KRISHAN DUTT R/O-ARNAS, DISTT-REASI. raman321ans@gmail.com
Proposal No:	SIA/JK/MIN/57161/2020.
File No:	SEAC/JK/20/318
Consultant:	COGNIZANCE RESEARCH INDIA PVT LTD
Title of the Case:	Grant of Environment Clearance for MINOR MINERAL” AT RIVER ANS, DOWN STREAM NARLOO BRIDGE MINOR MINERAL BLOCK -14 AT RIVER ANS, DOWN STREAM NARLOO BRIDGE (PLAN NO. V), TEHSIL-THAKARKOTE, DISTT-REASI, J&K (U.T.) (AREA- 9.51 Ha).

Deliberations: -

The case was represented by Shri Ankur Sharma on behalf of the Consultancy COGNIZANCE RESEARCH INDIA PVT LTD and Shri Raman Kumar, project proponent. The consultant gave a detailed PowerPoint presentation on the project during which he informed the forum that the Letter of Intent was issued to the project by J&K G&M Dept. on 20/07/2020 and the ToRs were issued for preparation of the EIA/EMP by JKEIAA on 27/12/2020 and the project has been conceived at a cost of 97.56 lacs. He informed that the Public Hearing of the project was conducted by JKPCB on 26/02/2021. He presented the NOCs of Forest and Fisheries Departments. However, the Committee desired that NOCs from other stake holder departments need to be submitted as per approved checklist issued by the JKEIAA. The Committee observed that since the site is lying in close vicinity of Salaal Dam, the project proponent shall have to obtain a NOC from the Salaal Dam Authority specifically with respect to the title of the land. The consultant presented the compliance of terms of Reference and the Committee observed that while the Consultant had complied with standard Terms of Reference, he has failed to present compliance to the specific terms of reference issued by the JK Level Environment Impact Assessment Authority vide letter No. JKEIAA/2020/339/1550-53 dated 27/12/2020. The Committee asked the consultant to submit compliance of the specific ToRs issued by JKEIAA for considering the case for further appraisal.

Recommendation: -

In view of the above deliberations, the Expert Appraisal Committee recommended that the project proponent/Consultant be asked to ensure compliance to Specific Terms of Reference issued by the JK Level Environment Impact Assessment Authority vide letter No. JKEIAA/2020/339/1550-53 dated 27/12/2020 besides, submitting NOCs from the other stake holder departments/agencies like; Salaal Dam Authority, Irrigation & Flood Control Department.

Agenda Item No: 02

Grant of Environment Clearance in favour of M/S VIKESH KUMAR S/O SHRI AGYA PAL R/O-ARNAS, DISTT-REASI. vk3639576@gmail.com

Proposal No:

SIA/JK/MIN/57162/2020.

File No:

SEAC/JK/20/319

Consultant:

COGNIZANCE RESEARCH INDIA PVT LTD

Title of the Case: Grant of Environment Clearance for MINOR MINERAL” AT RIVER ANS, DOWN STREAM NARLOO BRIDGE MINOR MINERAL BLOCK -11 AT RIVER ANS, DOWN STREAM NARLOO BRIDGE (PLAN NO. II), TEHSIL-MAHORE, DISTT-REASI, J&K (U.T.) (AREA- 9.90 Ha).

Deliberations: The case was represented by Shri Ankur Sharma on behalf of the Consultancy COGNIZANCE RESEARCH INDIA PVT LTD and Shri Raman Kumar, project proponent. The consultant informed the Committee that the case is identical to and falls in close vicinity of the project discussed under agenda item No.1 and that further informed that he had not submitted compliance to the Specific Terms of Reference issued by the JK Level Environment Impact Assessment Authority vide letter No. JKEIAA/2020/340/1546-49 dated 27/12/2020. The Committee asked the consultant to submit compliance of the specific ToRs issued by JKEIAA for considering the case for further appraisal. The Committee observed that since the mining block is in the close vicinity of the Salaal Dam, the project proponent shall have to obtain NOCs from the other stake holder departments/agencies like; Salaal Dam Authority, Irrigation & Flood Control Department as in the case dealt with earlier.

Recommendation: - In view of the above deliberations, the Expert Appraisal Committee recommended that the project proponent/Consultant be asked to ensure compliance to Specific Terms of Reference issued by the JK Level Environment Impact Assessment Authority vide letter No. JKEIAA/2020/340/1546-49 dated 27/12/2020 besides, submitting NOCs from the other stake holder departments/agencies like; Salaal Dam Authority, Irrigation & Flood Control Department.

Agenda Item No: 03 to Agenda item No.5

The cases were represented by Shri Rashid Khan, representative of the project proponents. He was asked to get the cases presented by some other NABET accredited consultant with due authority letter from the concerned project proponents in view of the fact that the consultant Over Seas Min-tech Consultants vide email dated 19/04/2021 has informed that the consultancy is not going to work with JKEAC. Since, the representative

of the project proponents was not able to arrange presentations by a new NABET accredited consultant with authority from the concerned project proponents, the cases were recommended to be deferred.

Agenda Item No: 06 Grant of Terms of Reference in favour of M/S Aggarwal Mines R/o 328, Defence colony, Pathankot, Punjab.
Proposal No: SIA/JK/MIN/61095/2021.
File No: SEAC/JK/20/498
Consultant: **P & M Solution**
Title of the Case: Grant of Terms of Reference for Riverbed Mining Project of Minor Mineral in Block No.06, Anji Khad Upstream Kayala Bridge, District-Reasi (Plan-VI), Area 9.95.

Deliberations: The project was presented by Ms Dimple Khatre and Mr. Manas Vyas on behalf of the consultants viz. M/S P and M Solutions. The consultant gave a detailed PowerPoint presentation on the project during which detailed deliberations were held on the various aspects of the project like LoI, mining depth, replenishment study, active water channel and surface plan. The consultant informed that the LoI was granted on 09/09/2020 and the mining plan was approved on 14/01/2021 at a project cost of 228.28 lacs. The Committee examined the mining block on Google Earth platform during which it was observed that a bridge with piers/abutments exists at a distance of 200mts. from the mining block. Accordingly, it was desired that the block be reduced in size to keep a safe distance of 500mts from the bridge. The Committee desired that the specific ToRs in all cases hence forth must include an appreciation note to be formulated by the Consultant on the mining block which would give detailed account of the mining block, all areas of interest like bridges, active channel, green patches if any besides, environmental setting of its surrounds supported with site photographs of all important features based on field inspection by the consultant. In the meantime, TORs were recommended subjectively.

Recommendations: In view of the above deliberations, the committee unanimously recommended the case for grant of following Terms of Reference subject to condition that the mining block size is reduced to maintain a safe distance of 500mts from the bridge: -

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. To submit a detailed **appreciation note** on all areas of interest like bridges if any, active channel, green patches if any besides, environmental setting of its surrounds supported with site photographs of all important features based on field inspection by the consultant.
2. 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.
3. 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.
4. Details of Gradient of riverbed and 3-D view draped on the satellite image
5. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr.
6. 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.
7. Impact on mining activity on the existing land use in the study area.
8. Impact of mining on aquatic life.
9. NOCs from HoD/competent authority of Irrigation and Flood Control Dept. and Fisheries Dept. should be obtained and submitted while applying for EC.
10. 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.
11. 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
12. 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.
13. The Photography and videography of the mining block shall be part of the Terms of Reference.
14. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius

15. 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
16. Dust suppression measures should be prescribed in the EIA/EMP.
17. Post project monitoring plan should be included in the study.
18. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.
19. 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.
20. The impact of mining activity on the neighbouring villages need to be studied and extraction road need to be such that it has least crossing through village settlements.
21. The data displayed on air quality monitoring stations should be captured with digital camera displaying the date 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.
22. Mining shall be proposed manually minimally supported by semi-mechanized methods.
23. The mining plan be approved de novo by the competent authority, after it is technically reviewed by the Irrigation and Flood Control Department and within mining depth of 1mt only due to non-availability of replenishment data.
24. **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.**

Besides, the TORs are recommended without prejudice to the standing court orders, if any, w.r.t the concerned mining project or final outcome of writ petitions/LPAs pending disposal before any competent court of law w.r.t the concerned mining block.

Agenda Item No: 07 Grant of Terms of Reference in favour of M/S Kesri Nandan Mines R/O Logate Tehsil, District Kathua, Jammu Kashmir.

Proposal No: SIA/JK/MIN/61553/2021.

File No: SEAC/JK/20/499

Consultant: **P & M Solution**

Title of the Case: Grant of Terms of Reference for Minor Mineral Block No. 03 in Naj Nallah Upstream Naj Bridge , District Kathua (Plan-I) Jammu and Kashmir area 8.97 ha.

Deliberations: The project was presented by Ms Dimple Khatre and Mr. Manas Vyas on behalf of the consultants viz. M/S P and M Solutions. The consultant gave a detailed PowerPoint presentation on the project during which detailed deliberations were held on the various aspects of the project like LoI, mining depth, replenishment study, active water channel and surface

plan. The consultant informed that the LoI was granted on 09/09/2020 and the mining plan was approved on 17/02/2021 at a project cost of 171.48 lacs. The Committee examined the mining block on Google Earth platform during which it was observed that the pillar coordinate C bearing geo-coordinates 32°37'8.15" N and 75°35'46.37" E fall within the available territorial forest boundary. The Consultant was asked to clarify this. In response to this, the consultant informed that the Divisional Forest Officer concerned has issued a No Objection certificate in favour of the mining block. The Committee examined the NOC and observed that the DFO has not mentioned the nearest pillar coordinate of the forest boundary while issuing the NOC. Therefore, the Committee desired that a fresh clarification should be sought from the Forest Department in which coordinates and distance from nearest pillar coordinate of the forest boundary from the pillar coordinate-C of mining block should be mentioned.

The Committee also observed the mining block on the Google Earth platform using the KML/KMZ file of the mining block provided by the consultant. It was observed that a bridge exists at a distance of 460mts from the mining block. Accordingly, it was desired that the block be reduced in size to keep a safe distance of 500mts from the bridge. The Committee took cognizance of the complaint filed by Shri Omakant Basotra, Chairman, Municipal Council, Billawar, Bikram Andotra, Member, District Development Council, Billawar and other concerned elected Members of the Council on the proposed mining activity in the region and desired comprehensive and specific reports from the respective Heads of various stake holder Departments in this regard. In this connection, esteemed Member, Engineer B.B Sharma informed the Committee that Billawar area faces grave scarcity of drinking water and all attempts to explore groundwater in the region have failed in the past meaning thereby that the area is mainly dependent on surface water only. It was opined that the concerned departments need to categorically underline the impact of mining activity on surface water availability in the region besides, impact on the socio-economic condition of the locals. The consultant informed that joint NOC has been issued by the stake holder departments under the chairmanship of concerned Dy. Commissioner. However, the Committee desired clarification from the HoDs concerned in view of the representation from the local public representatives. A few members were of the opinion that ToRs may be subjectively considered with conditions and prior NOCs from the stake holder department. However, in view of the fact that some serious environmental issues concerning livelihood of the local people have been raised in the representation, the Chairman and other members were of the opinion that prior clarification from the Heads of the concerned stake holder departments must be sought on the said issues before proceeding further in the matter.

Recommendations: In view of the above deliberations, the Committee recommended that the Project Proponent be asked to obtain detailed report from the Heads of Irrigation & Flood Control Dept., Geology & Mining Dept. and PHE Dept. in the light of representation by the local public representatives, besides, Forest Department in accordance with deliberations recorded herein above.

Agenda Item No: 08 Grant of Terms of Reference in favour of M/S Singh Minerals R/o Near Kali Mata Mandir, Pathankot, Punjab.

Proposal No: SIA/JK/MIN/61541/2021.

File No: SEAC/JK/20/500

Consultant: **P & M Solution**

Title of the Case: Grant of Terms of Reference for Minor Mineral in Block No.17, ANS River Upstream Narloo Bridge, District-Reasi, Area 8.85 Ha.

Deliberations: The project was presented by Ms Dimple Khatre and Mr. Manas Vyas on behalf of the consultants viz. M/S P and M Solutions. The consultant gave a detailed PowerPoint presentation on the project during which detailed deliberations were held on the various aspects of the project like LoI, mining depth, replenishment study, active water channel and surface plan. The consultant informed that the LoI was granted on 09/09/2020 and the mining plan was approved on 14/01/2021 at a project cost of 251.22 lacs. The Committee examined the mining block on Google Earth platform during which it was observed that the mining block has nearly 40% under active water channel. Accordingly, it was desired that the area under active water channel be excluded while calculating the targeted mineral production and the mining plan be accordingly corrected and approved denovo.

Recommendations: In view of the above deliberations, the committee unanimously recommended the case for grant of following Terms of Reference subject to condition that the targeted mineral production is rectified in the mining plan by excluding the active water channel: -

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. To submit a detailed **appreciation note** on all areas of interest like bridges if any, active channel, green patches if any besides, environmental setting of its surrounds supported with site photographs of all important features based on field inspection by the consultant.
2. 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.
3. 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.
4. Details of Gradient of riverbed and 3-D view draped on the satellite image
5. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr.
6. 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.
7. Impact on mining activity on the existing land use in the study area.
8. Impact of mining on aquatic life.
9. NOCs from HoD/competent authority of Irrigation and Flood Control Dept. and Fisheries Dept. should be obtained and submitted while applying for EC.
10. 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.
11. 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
12. 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.
13. The Photography and videography of the mining block shall be part of the Terms of Reference.
14. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius
15. 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
16. Dust suppression measures should be prescribed in the EIA/EMP.
17. Post project monitoring plan should be included in the study.
18. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.

19. 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.
20. The impact of mining activity on the neighbouring villages need to be studied and extraction road need to be such that it has least crossing through village settlements.
21. The data displayed on air quality monitoring stations should be captured with digital camera displaying the date 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.
22. Mining shall be proposed manually minimally supported by semi-mechanized methods.
23. The mining plan be approved de novo by the competent authority, after it is technically reviewed by the Irrigation and Flood Control Department and within mining depth of 1mt only due to non-availability of replenishment data and after exclusion of the active water channel.
24. **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.**

Besides, the TORs are recommended without prejudice to the standing court orders, if any, w.r.t the concerned mining project or final outcome of writ petitions/LPAs pending disposal before any competent court of law w.r.t the concerned mining block.

Agenda Item No: 09 Grant of Terms of Reference in favour of M/S Mahavir Mining R/o 01 Lane No.03 Shaheed Udham Singh Nagar.

Proposal No: SIA/JK/MIN/61532/2021.
 File No: SEAC/JK/20/501
 Consultant: **P & M Solution**
 Title of the Case: Grant of Terms of Reference for Minor Mineral in Block No.16, ANS River Downstream Narloo Bridge, District-Reasi, Area 8.20 Ha.

Deliberations: The project was presented by Ms Dimple Khatre and Mr. Manas Vyas on behalf of the consultants viz. M/S P and M Solutions. The consultant gave a detailed PowerPoint presentation on the project during which detailed deliberations were held on the various aspects of the project like LoI, mining depth, replenishment study, active water channel and surface plan. The consultant informed that the LoI was granted on 09/09/2020 and the mining plan was approved on 14/01/2021 at a project cost of 308.86 lacs. The Committee examined the mining block on Google Earth platform in combination with forest boundary during which it was observed that the edges of mining block apparently fall in the territorial forest boundary. Accordingly, it was

desired that a categorical NOC be obtained from the Forest Dept. mentioning therein the nearest forest pillar coordinates vis-à-vis nearest mining block coordinates. Besides, the area under active water channel be excluded while calculating the targeted mineral production and the mining plan be accordingly corrected and approved denovo.

Recommendations: In view of the above deliberations, the committee recommended the the project proponent be asked to obtain categorical NOC from Forest Dept., mentioning therein Forest pillar coordinates vis-à-vis nearest pillar coordinate of the mining block before proceeding further in the matter.

Agenda Item No: 10 Grant of Terms of Reference in favour of M/S Shiva Minerals R/O Focal Point Near Peer Baba Chowk, Malikpur, Pathankot.

Proposal No: SIA/JK/MIN/61528/2021.
File No: SEAC/JK/20/502
Consultant: **P & M Solution**
Title of the Case: Grant of Terms of Reference for Minor Mineral in Block No.12, ANS River Downstream Narloo Bridge, District-Reasi (Plan-III), State-Jammu & Kashmir., Area 7.35 Ha.

Deliberations: The project was presented by Ms Dimple Khatre and Mr. Manas Vyas on behalf of the consultants viz. M/S P and M Solutions. The consultant gave a detailed PowerPoint presentation on the project during which detailed deliberations were held on the various aspects of the project like LoI, mining depth, replenishment study, active water channel and surface plan. The consultant informed that the LoI was granted on 09/09/2020 and the mining plan was approved on 14/01/2021 at a project cost of 167.24 lacs. The Committee examined the mining block on Google Earth platform during which it was observed that the block is good for exploitation of the RBM. However, due to close proximity to Salaal Dam, it was desired that a categorical NOC be obtained from the Salaal Dam Authority besides, other stake holder departments like; Irrigation & Flood Control and Fisheries.

Recommendations: In view of the above deliberations, the committee unanimously recommended the case for grant of following Terms of Reference subject to NOCs from the concerned agencies: -

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.

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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.

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(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.

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4. Details of Gradient of riverbed and 3-D view draped on the satellite image
5. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr.
6. 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.
7. Impact on mining activity on the existing land use in the study area.
8. Impact of mining on aquatic life.
9. NOCs from HoD/competent authority of Irrigation and Flood Control Dept., Salaal Dam Authority and Fisheries Dept. should be obtained and submitted while applying for EC.
10. 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.
11. 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
12. 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.
13. The Photography and videography of the mining block shall be part of the Terms of Reference.

14. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius
15. 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
16. Dust suppression measures should be prescribed in the EIA/EMP.
17. Post project monitoring plan should be included in the study.
18. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.
19. 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.
20. The impact of mining activity on the neighbouring villages need to be studied and extraction road need to be such that it has least crossing through village settlements.
21. The data displayed on air quality monitoring stations should be captured with digital camera displaying the date 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.
22. Mining shall be proposed manually minimally supported by semi-mechanized methods.
23. The mining plan be approved de novo by the competent authority, after it is technically reviewed by the Irrigation and Flood Control Department and within mining depth of 1mt only due to non-availability of replenishment data.
24. **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.**

Besides, the TORs are recommended without prejudice to the standing court orders, if any, w.r.t the concerned mining project or final outcome of writ petitions/LPAs pending disposal before any competent court of law w.r.t the concerned mining block.

Lastly, the minutes of the meeting of the 36th JKEAC were confirmed and the meeting ended with vote of thanks to the Chair and the members.



(Humayun Rashid)
S E C R E T A R Y
JKUT level Expert Appraisal Committee

NO:EAC/JK/20/6970-982

Dated:03.05.2021

Copy by email to:

1. The Member Secretary, J&K Environment Impact Assessment Authority (JKEIAA), /PCCF/Director, Ecology, Environment and Remote Sensing, J&K Govt., Jammu for favour kind information and necessary action please.

2. Sh. S. C. Sharma, Chairman, J&K Expert Appraisal Committee, (JKEAC) 331 Shastri Nagar, Jammu-180004 for favour of kind information.
3. Sh. M.ATak, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) 124 Mominabad (Near Jakfed), Anantnag Kashmir,-192101 for favour of kind information.
4. Sh. Braj Bhushan Sharma, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) 278/2 Channi Himmat, Jammu for favour of kind information.
5. Professor Shakeel Ahmad Romshoo, Member, J&K Expert Appraisal Committee, (JKEAC) Department of Earth Sciences Kashmir University Srinagar-190006 for favour of kind information and necessary action please.
6. Sh. Abdul Rashid Makroo, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) H/No. 9 Lane No 11 Sector C, Gulshan Nagar Nowgam Bypass, Srinagar-190019 for favour of kind information please.
7. Professor Arvind Jasrotia Member, J&K Expert Appraisal COMMITTEE, (JKEAC) 33/D Sainik Colony Jammu-180011 for favour of kind information please.
8. Dr. Ghulam Mohammad Dar, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) Main Campus IMPA&RD, M.A Road, Srinagar-190001 for favour of kind information please.
9. Sh. Irfan Yasin, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) Bagh-e-Hyderpora, Bypass, Srinagar for favour of kind information please.
10. Professor Anil Kumar Raina, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) Department of Environmental Science University of Jammu, Jammu-180006 for favour of kind information please.
11. Professor M. A. Khan, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) Khan House, A-27 Milatabad, Peerbagh "B" Srinagar for favour of kind information please.
12. Dr.Falendra Kumar Sudan, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) Professor Department of Economics University of Jammu, Jammu for favour of kind information please.
13. Sh. Sheikh Sajid, PA for information and with direction to upload the minutes on the environmental clearance portal at parivesh.nic.in.
14. Concerned File.