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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 22nd MEETING OF THE JK EXPERT APPRAISAL COMMITTEE HELD ON 26/12/2020 VIA VIDEO CONFERENCING OWING TO COVID-19 OUTBREAK AND SUBSEQUENT MITIGATIVE MEASURES

In pursuance to letter No: JKEIAA/2016/2/III/1717 dated:19.12.2020, received from the office of Member Secretary, J&K Environment Impact Assessment Authority (JKEIAA) and meeting notice issued vide No: EAC/JK/20/3865-85 dated 19/12/2020 and addendum to meeting notice issued vide No: EAC/JK/20/3886-99 Dated: 24/12/2020, the 22nd meeting of JKEAC was held on 26/12/2020 via video Conferencing. The following attended the meeting: -

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|-------------------------------|-----------|
| 1. Mr. S.C. Sharma, IFS(Rtd.) | Chairman |
| 2. Mr. B.B. Sharma | Member |
| 3. Mr. M.A Tak, IFS(Rtd.) | Member |
| 4. Professor G.M. Dar | Member |
| 5. Professor Anil Kr. Raina | Member |
| 6. Mr. Humayun Rashid | Secretary |

The Secretary welcomed the Chairman, Members of JKEAC forum and the participating project proponents and the consultants. The meeting proceeded in the following sequence: -

- Agenda Item No: 01** Grant of Terms of Reference in favour of M/S Balvinder Singh S/O Kimat Lal R/O Near Chib Resort Raipur, Satwari, Jammu.
- Proposal No:** SIA/JK/MIN/58842/2020.
- File No:** SEAC/JK/20/341
- Title of the Case:** Grant of Terms of Reference for (River Bed Mineral) Minor Mineral Block Mining Project, Block-06 Area :- 9.93 ha; Bhini River Downstream Kishanpur Road Bridge, Distt-Kathua, J & K(U.T).

Deliberations:-

The project was represented by Shri Barinder Singh Chaudhary on behalf of the project proponent and Ms. Somiya Lodwal on behalf of the consultant M/S GAURANG ENVIRONMENTAL SOLUTIONS PVT.LTD. Certificate No.: NABET/EIA/1720/IA0026 102, SNG, Shri Ratna Apartment, Near Tambi Petrol Pump, Peetal Factory, Jhotwara Road, Jaipur-302016. A detailed powerpoint presentation was given by the consultant. During deliberations, the various aspects of the project like mining depth, replenishment concerns, surface plan and extraction route were discussed. The consultant was asked to demonstrate the mining block on Google Earth platform. During examination of the mining block on the satellite image, the members examined the local environmental settings of the area and found the block fit for mining of river bed material.

Recommendations: In view of the above deliberations, the Committee recommended following Terms of Reference for the project for enabling the consultant to formulate the EIA/EMP and pre-feasibility report and to accomplish other statutory formalities: -

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. 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.
2. Details of Gradient of riverbed and 3-D view draped on the satellite image
3. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr.
4. 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.
5. Impact on mining activity on the existing land use in the study area.
6. Impact of mining on aquatic life.
7. NOCs from HoD/competent authority of Irrigation and Flood Control Dept. and Fisheries Dept. should be obtained and submitted while applying for EC.
8. 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.
9. 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
10. 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.
11. The Photography and videography of the mining block shall be part of the Terms of Reference.
12. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius
13. 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
14. Dust suppression measures should be prescribed in the EIA/EMP.
15. Post project monitoring plan should be included in the study.
16. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.
17. 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.

18. 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.
19. 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.
20. Mining shall be proposed manually minimally supported by semi-mechanized methods.
21. The mining plan be approved de novo by the competent authority, after it is technically reviewed by the Irrigation and Flood Control Department and after reducing the active water channel.
22. **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.

After preparing the EIA/EMP (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above-mentioned issues, the proponent will apply for EC on the **Parivesh Portal of the MoEF&CC and submit all the relevant documents including Public Hearing report in accordance with the procedure prescribed under the EIA Notification, 2006.**

Agenda Item No: 02 Grant of Terms of Reference in favour of M/S Brinder Singh S/O Keemat Lal R/O Near Chib Resort Raipur, Satwari, Jammu

Proposal No: SIA/JK/MIN/58772/2020.

File No: SEAC/JK/20/342

Title of the Case: Grant of Terms of Reference for (River Bed) Minor Mineral Block Mining Project, Block-1 Area :- 10.00 ha., Duderhama Bridge to Wahidpora Malpora Upstream, Sindh River & District:-Ganderbal, Jammu& Kashmir.

Deliberations:- The project was represented by Shri Barinder Singh Chaudhary project proponent and Ms. Somiya Lodwal on behalf of the consultant M/S GAURANG ENVIRONMENTAL SOLUTIONS PVT.LTD. Certificate No.:

NABET/EIA/1720/IA0026 102, SNG, Shri Ratna Apartment, Near Tambi Petrol Pump, Peetal Factory, Jhotwara Road, Jaipur-302016. A detailed powerpoint presentation was given by the consultant. During deliberations, the various aspects of the project like mining depth, replenishment concerns, surface plan and extraction route were discussed. The consultant was asked to demonstrate the mining block on Google Earth platform. During examination of the mining block on the satellite image, the members examined the local environmental settings of the area and found 90% of the mining block under active water channel.

Recommendations: In view of the above deliberations, the Committee recommended the project for rejection of ToRs as 90% of the proposed mining block falls under active water channel.

Agenda Item No: 03 Grant of Terms of Reference in favour of M/S NARESH SHARMA S/O SH. SWARAN DASS SHARMA R/O Lane No: 14 H.No. 105/11, Nanak Nagar, (J&K).
Proposal No: SIA/JK/MIN/58843/2020
File No: SEAC/JK/20/343
Title of the Case: Grant of Terms of Reference for (River Bed) Minor Mineral Block Mining Project, Block-18 Area:- 8.77 ha Bhini River Upstream Painthal Bridge, Billawar, District- Kathua (Plan-XIII) Jammu And Kashmir.

Deliberations:- The project was represented by Shri Barinder Singh Chaudhary on behalf of the project proponent and Ms. Somiya Lodwal on behalf of the consultant M/S GAURANG ENVIRONMENTAL SOLUTIONS PVT.LTD. Certificate No.: NABET/EIA/1720/IA0026 102, SNG, Shri Ratna Apartment, Near Tambi Petrol Pump, Peetal Factory, Jhotwara Road, Jaipur-302016. A detailed PowerPoint presentation was given by the consultant. During deliberations, the various aspects of the project like mining depth, replenishment concerns, surface plan and extraction route were discussed. The consultant was asked to demonstrate the mining block on Google Earth platform. During examination of the mining block on the satellite image, the members examined the local environmental settings of the area and found the block fit for mining of river bed material excluding the area under active water channel.

Recommendations: In view of the above deliberations, the Committee recommended following Terms of Reference for the project for enabling the consultant to formulate the EIA/EMP and pre-feasibility report and to accomplish other statutory formalities subject to condition that 10% of the area of the mining block is reduced owing to 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. 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.
2. Details of Gradient of riverbed and 3-D view draped on the satellite image
3. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr.
4. 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.
5. Impact on mining activity on the existing land use in the study area.
6. Impact of mining on aquatic life.
7. NOCs from HoD/competent authority of Irrigation and Flood Control Dept. and Fisheries Dept. should be obtained and submitted while applying for EC.
8. 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.
9. 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

10. 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.
11. The Photography and videography of the mining block shall be part of the Terms of Reference.
12. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius
13. 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
14. Dust suppression measures should be prescribed in the EIA/EMP.
15. Post project monitoring plan should be included in the study.
16. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.
17. 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.
18. 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.
19. 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.
20. Mining shall be proposed manually minimally supported by semi-mechanized methods.
21. The mining plan be approved de novo by the competent authority, after it is technically reviewed by the Irrigation and Flood Control Department and after reducing the active water channel.
22. **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.

After preparing the EIA/EMP (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above-mentioned issues, the proponent will apply for EC on the **Parivesh Portal of the MoEF&CC and submit all the relevant documents including Public Hearing report in accordance with the procedure prescribed under the EIA Notification, 2006.**

Agenda Item No: 04 Grant of Terms of Reference in favour of M/S NARESH SHARMA S/O SH. SWARAN DASS SHARMA R/O Lane No: 14 H.No. 105/11, Nanak Nagar, (J&K).

Proposal No: SIA/JK/MIN/58851/2020

File No: SEAC/JK/20/344

Title of the Case: Grant of Terms of Reference for (River Bed Mineral) Minor Mineral Block Mining Project, Block-10, Area:- 9.84 ha., Bhini River Downstream Naj Bridge, Billawar, District-Kathua (plan-v), Jammu & Kashmir.

Deliberations: - The project was represented by Shri Barinder Singh Chaudhary on behalf of the project proponent and Ms. Somiya Lodwal on behalf of the consultant M/S GAURANG ENVIRONMENTAL SOLUTIONS PVT.LTD. Certificate No.: NABET/EIA/1720/IA0026 102, SNG, Shri Ratna Apartment, Near Tambi Petrol Pump, Peetal Factory, Jhotwara Road, Jaipur-302016. A detailed PowerPoint presentation was given by the consultant. During deliberations, the various aspects of the project like mining depth, replenishment concerns, surface plan and extraction route were discussed. The consultant was asked to demonstrate the mining block on Google Earth platform. During examination of the mining block on the satellite image, the members examined the local environmental settings of the area and found the block fit for mining of river bed material excluding the area under active water channel.

Recommendations: In view of the above deliberations, the Committee recommended following Terms of Reference for the project for enabling the consultant to formulate the EIA/EMP and pre-feasibility report and to accomplish other statutory formalities subject to condition that 10% of the area of the mining block is reduced owing to 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. 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.
2. Details of Gradient of riverbed and 3-D view draped on the satellite image
3. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr.
4. 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.
5. Impact on mining activity on the existing land use in the study area.
6. Impact of mining on aquatic life.
7. NOCs from HoD/competent authority of Irrigation and Flood Control Dept. and Fisheries Dept. should be obtained and submitted while applying for EC.
8. 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.
9. 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
10. 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.
11. The Photography and videography of the mining block shall be part of the Terms of Reference.

12. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius
13. 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
14. Dust suppression measures should be prescribed in the EIA/EMP.
15. Post project monitoring plan should be included in the study.
16. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.
17. 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.
18. 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.
19. 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.
20. Mining shall be proposed manually minimally supported by semi-mechanized methods.
21. The mining plan be approved de novo by the competent authority, after it is technically reviewed by the Irrigation and Flood Control Department and after reducing the active water channel.
22. **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.

After preparing the EIA/EMP (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above-mentioned issues, the proponent will apply for EC on the **Parivesh Portal of the MoEF&CC and submit all the relevant documents including Public Hearing report in accordance with the procedure prescribed under the EIA Notification, 2006.**

Agenda Item No: 05 Grant of Terms of Reference in favour of M/S Kimat Lal S/O Shri Kohla Ram R/O Raipur Satwari J&K.
Proposal No: SIA/JK/MIN/58847/2020
File No: SEAC/JK/20/345
Title of the Case: Grant of Terms of Reference for (River Bed Mineral) Minor Mineral Block Mining Project, Block-5 Area:-9.09 ha., Naj Nallah, Downstream Naj Bridge District Kathua, Jammu & Kashmir (U.T).

Deliberations: - The project was represented by Shri Barinder Singh Chaudhary on behalf of the project proponent and Ms. Somiya Lodwal on behalf of the consultant M/S GAURANG ENVIRONMENTAL SOLUTIONS PVT.LTD. Certificate No.: NABET/EIA/1720/IA0026 102, SNG, Shri Ratna Apartment, Near Tambi Petrol Pump, Peetal Factory, Jhotwara Road, Jaipur-302016. A detailed PowerPoint presentation was given by the consultant. During deliberations, the various aspects of the project like mining depth, replenishment concerns, surface plan and extraction route were discussed. The consultant was asked to demonstrate the mining block on Google Earth platform. During examination of the mining block on the satellite image, the members examined the local environmental settings of the area and found the block fit for mining of river bed material excluding the area under active water channel.

Recommendations: In view of the above deliberations, the Committee recommended following Terms of Reference for the project for enabling the consultant to formulate the EIA/EMP and pre-feasibility report and to accomplish other statutory formalities subject to condition that 10% of the area of the mining block is reduced owing to 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. 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.
2. Details of Gradient of riverbed and 3-D view draped on the satellite image
3. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr.
4. 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.
5. Impact on mining activity on the existing land use in the study area.
6. Impact of mining on aquatic life.
7. NOCs from HoD/competent authority of Irrigation and Flood Control Dept. and Fisheries Dept. should be obtained and submitted while applying for EC.
8. 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.
9. 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
10. 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.
11. The Photography and videography of the mining block shall be part of the Terms of Reference.
12. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius
13. 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
14. Dust suppression measures should be prescribed in the EIA/EMP.
15. Post project monitoring plan should be included in the study.

16. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.
17. 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.
18. 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.
19. 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.
20. Mining shall be proposed manually minimally supported by semi-mechanized methods.
21. The mining plan be approved de novo by the competent authority, after it is technically reviewed by the Irrigation and Flood Control Department and after reducing the active water channel.
22. **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.

After preparing the EIA/EMP (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above-mentioned issues, the proponent will apply for EC on the **Parivesh Portal of the MoEF&CC and submit all the relevant documents including Public Hearing report in accordance with the procedure prescribed under the EIA Notification, 2006.**

Agenda Item No: 06 Grant of Terms of Reference in favour of M/S Brinder Singh S/O Shri Keemat Lal R/O Near Chib Resort Raipur, Satwari, Jammu.

Proposal No: SIA/JK/MIN/58421/2020

File No: SEAC/JK/20/346

Title of the Case: Grant of Terms of Reference for (River Bed Mineral) Minor Mineral Block Mining Project, OF at Block-10 & Area :- 5.30 ha., Ramnagarwari Khad upstream Gulang Bridge at Village Guletrg, Tehsil Ramna Elt, District Udhampur, Jammu & Kashmir.

Deliberations: - The project was represented by Shri Barinder Singh Chaudhary project proponent and Ms. Somiya Lodwal on behalf of the consultant M/S GAURANG ENVIRONMENTAL SOLUTIONS PVT.LTD. Certificate No.: NABET/EIA/1720/IA0026 102, SNG, Shri Ratna Apartment, Near Tambi Petrol Pump, Peetal Factory, Jhotwara Road, Jaipur-302016. A detailed PowerPoint presentation was given by the consultant. During deliberations, the various aspects of the project like mining depth, replenishment concerns, surface plan and extraction route were discussed. The consultant was asked to demonstrate the mining block on Google Earth platform. During examination of the mining block on the satellite image, the members examined the local environmental settings of the area and observed an island of approx.0.80 ha in the middle of the nallah bed with and without shrubs and scattered trees. The committee opined that the green patch must be protected while allowing mining in the block.

Recommendations: In view of the above deliberations, the Committee recommended following Terms of Reference for the project for enabling the consultant to formulate the EIA/EMP and pre-feasibility report and to accomplish other statutory formalities subject to condition that the green patch comprising of shrubs and scattered trees be protected by excluding the area from the mining block and after the project proponent files an affidavit before the judicial magistrate on stamped paper to the effect that the said area shall be given proper protection during the mining activity :-

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.

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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.

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(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.

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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:

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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.

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1. 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.
2. Details of Gradient of riverbed and 3-D view draped on the satellite image
3. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr.
4. 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.
5. Impact on mining activity on the existing land use in the study area.
6. Impact of mining on aquatic life.
7. NOCs from HoD/competent authority of Irrigation and Flood Control Dept. and Fisheries Dept. should be obtained and submitted while applying for EC.
8. 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.
9. 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
10. 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.
11. The Photography and videography of the mining block shall be part of the Terms of Reference.
12. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius
13. 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
14. Dust suppression measures should be prescribed in the EIA/EMP.
15. Post project monitoring plan should be included in the study.

16. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.
17. 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.
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19. 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.
20. Mining shall be proposed manually minimally supported by semi-mechanized methods.
21. The mining plan be approved de novo by the competent authority, after it is technically reviewed by the Irrigation and Flood Control Department and after reducing the area under green cover comprising of shrub growth and scattered trees.
22. **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.

After preparing the EIA/EMP (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above-mentioned issues, the proponent will apply for EC on the **Parivesh Portal of the MoEF&CC and submit all the relevant documents including Public Hearing report in accordance with the procedure prescribed under the EIA Notification, 2006.**

Agenda Item No: 07

To discuss the representation filed under No. JK/R/RS/02 dated 04/11/2020 by Shri Rambir Singh, S/o Gulwant Singh R/o Near Govt School Sheikhpur Bagh SBS Nagar, Punjab, project proponent of mining block No. 21/ Tawi Khad Downstream Matnani Bridge, Village- Nar Block Pouni, Tehsil & District-Reasi, J&K. Area 3.53 Ha listed during the 15th JKEAC.

Deliberations: The Secretary informed the Committee that the above cited representation received from JKIAA was circulated among the JKEAC members for feedback and the matter was directed to be listed for deliberations in next JKEAC meeting by the esteemed Chairman, JKEAC for broader discussion and hence the Agenda Item.

The participating JKEAC members discussed the representation from one Mr. Ranbir Singh in the light of deliberations recorded in Minutes of meeting for 15th and 17th JKEAC meetings. Further, the KML files of the mining block No.21/Tawi khad and that of mining block No.27, Chenab River Upstream Kanthan Bridge were reexamined on screen for refreshing the decisions taken earlier.

Post deliberations, JKEAC observed herein as under:-

Mr. Ranbir Singh in his representation has pointed out that JKEAC has not used the same yard stick while appraising the above mentioned two cases and has recommended that the mining block 21 in Pouni Tawi Khad, allotted to him and located at a distance of 420 mts from a bridge be relocated. On the other hand, it has 'recommended the mining block No.27 located at a distance of 222 mts from the Kanthan Bridge on Chenab, for grant of EC.

In the above context, JKEAC noted that its recommendations for grant of EC are always based on comprehensive and objective appraisal of the information / data forwarded/ provided to it by consultant/project proponent and as well as on the facts revealed during the appraisal process. No single factor, in isolation, guides the decision of the JKEAC. Reading of the minutes of meeting, side by side, for these two cases, reproduced herein under, would reveal this fact.

I) Block 21 Pouni, Minutes of 15 meeting Project Case dated 26th Sept. 2020

<i>“Agenda Item No: 09</i>	<i>Grant of Environment Clearance in favour of M/S Ranbir Singh S/o Gulwant Singh R/o Near Govt School Sheikhpur Bagh SBS Nagar, Punjab.</i>
<i>Proposal No:</i>	<i>SIA/JK/MIN/169344/2020</i>
<i>File No:</i>	<i>SEAC/JK/20/254</i>
<i>Title of the Case:</i>	<i>Grant of Environment Clearance for River Bed Material in Block No.21, TawiKhad Downstream Matnani Bridge, Village- Nar Block Pouni, Tehsil & District-Reasi, J&K. Area 3.53 Ha.</i>

Deliberations: The project was represented by the project proponent Shri Ranbir Singh and his consultant M/S P&M Solutions, Noida represented by Shri Manas Vyas. The consultant gave a detailed power point presentation which was followed by demonstration of the local environmental settings using KML file on Google Earth platform. One of the members pointed out that the on page 21 of the prefeasibility report, the project schedule is incomplete. Further, on page 24 and 25, the consultant had mentioned geomorphology of river Ravi in Punjab and on page 13, tehsil Gandoh had been mentioned which is a big factual mistake and cannot be entertained. The

consultant was warned not to repeat such mistakes in future. The Committee observed that a vibrant water channel flows over the Nallah bed and is not expected from NABET consultant. Another member asked the consultant to explain as to how the project proponent could go for mining while the water is flowing in the nallah. The consultant informed that the material becomes available from January to June when the water level recedes. One of the members asked the consultant as to how the minable reserves were calculated on the entire area of the block when part of the block constitutes the water channel area. At this, other members desired that the area of water channel need to be subtracted while calculating the actual minable reserves upto 1 meter mining depth as provided in approved mining plan. Another member of JKEAC pointed out that a bridge is located at a distance of 0.31 kms. The Consultant was again asked to demonstrate the mining block on Google Earth. While examining and measuring the distance of block from the bridge which stands at a distance of 420 mts, some Members suggested that the project proponent must obtain NOCs from Irrigation and Flood Control Department and the Public Works Department. However, majority of the members suggested that the mining block be recommended for relocation to alternative location where material is available and there is no civil structure in the close vicinity.

Recommendations: In view of the above deliberations, the Committee unanimously agreed to recommend the case for relocating to an appropriate site before the case is appraised for grant of EC.

Recommendations:

The JKEAC recommended that the project proponent be asked to get the mining block relocated to an appropriate location 500 mts away from bridge by Geology & Mining Department and resubmit the case for fresh appraisal.”

II) Block 27 Arnas, Minutes of 17 meeting Project Case dated 3rd Nov. 2020

“Agenda Item No: 17 Grant of Environment Clearance in favour of M/S Anil Kumar S/o Sh. Suraj Singh R/o Thandapani P/o Sunderbani, Kalakote, Rajouri- anil.reasi.ec@gmail.com
Proposal No: SIA/JK/MIN/174050/2020
File No: SEAC/JK/20/290
Title of the Case: Grant of Environment Clearance for River Bed Mining in Block No.27, Chenab River Upstream Kanthan Bridge at Village-Kanthan, Tehsil-Arnas & District-Reasi (Jammu & Kashmir) MINING LEASE AREA-2.44 Ha.

Deliberations: The project was represented by Shri Manas Vyas from M/S P & M Solution, 1st Floor C-88, Sector-65 Noida. The

consultant gave a detailed power point presentation on the project and informed the Committee that the project falls under B2 category. The consultant was asked to demonstrate the mining block on the Google Earth platform using KML file. During examination of the same, the Committee observed that the project falls under the jurisdiction of Salal Dam Authority. Therefore, prior NOC need to be obtained from the same. Shri Manas Vyas, Consultant informed that the representative of the Salal Dam had also been on board during approval of the proposal. Therefore, he was asked to produce any such paper which proves involvement of the Salal Dam Authority while scrutinizing the project. It was further observed that the bridge is at a distance of 222mts from the mining block. Although, Mr. B.B Sharma, Member, JKEAC opined that the bridge is on a solid rock and mining won't affect it, yet the Members desired that prior NOC from the R&B department must be obtained in this case as well. One of the members pointed out that the consultant had mentioned wrong floral species in the prefeasibility report and therefore, the consultant was asked to rectify the same. It was further observed that the project proponent has proposed mining depth of 2.5m and the same was not agreed by the Committee. The consultant was asked to calculate the targeted mineral resources at a maximum depth of 1m and to submit the revised documents.

Recommendations: *In view of paucity of river bed material in the UT and consistent efforts of Govt. to fast track the process of grant of EC, subject to submission of NOC from the Salal Dam Authority, PWD(R&B) and the Flood Control Department and subject to prior submission of revised PFR / documents in hard and soft form in the office of JKEIAA, the JKEAC recommended the case for grant of Environmental Clearance subject to following standard and specific conditions, clearly mentioning the geographical coordinates in the EC as per Letter of intent:"*

Perusal of the JKEAC recommendations for the two cases, as reproduced herein above, makes it amply clear that the recommendations for these two instant cases were not based on only one factor i.e distance of the mining block from a structure namely bridges, in these two cases.

The mining block No.21/Tawi khad has been recommended for relocation, because of following considerations :

- Tawi Khad bed, the banks and the area under the foundation/abutments of the bridge, all appear to be standing on alluvial soil. The flood flows, from time to time may lead to change of river course/ progression of mining pits downstream thus causing outflanking/scour and thereby undermining the bridge abutments.
- A major area of the proposed mining block lies in active water channel where mining activity cannot be allowed as per national guidelines.
- An alternative huge mass of dry river bed over an area of approx.3.90 ha is available at a distance of 500 mts. from downstream of the proposed mining block No.21 out of which 3.53 ha, could be tapped if the present mining block is relocated.

The apprehensions and objective reasons mentioned herein above, explain why the JKEAC had recommended NOC from the R&B and Flood Control Departments and the relocation of the mining block. The EC has not been outrightly denied for the mining block but only deferred for relocation and production of NOC from R&B and Flood Control Departments.

On the other hand, mining block No.27 on River Chenab has been recommended for grant of EC because of following considerations:

- The area under the mining block is part of Salal Dam reservoir and removal of accumulated sand would only reduce the silt load and thus lead to reduced wear and tear of machinery of Salal Hydroelectric Project.
- Mining block is located on concave side of river Chenab meander which makes it ideal for replenishment and accumulation / aggregation of river bed material.
- Removal of river bed material from this location is otherwise also desirable as the same shall release additional cross-sectional area for flow and thus reduce the pressure on the opposite bank and slow down the scour of that bank.
- Bridge, located 222 mts. downstream from the mining site, stands on hard rock and is not in direct line of the stream flow.

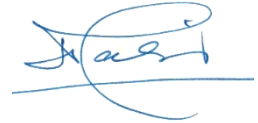
Despite the positive mitigating factors stated above, JKEAC has made its recommendation for grant of EC for mining block 27 on River Chenab conditional and subject to reaffirmation/ grant of no objection certificate/s and technical vetting from Salal Dam Authority and PWD Department.

Recommendation: In view of the above deliberations, the committee unanimously decided as follows:-

JKEAC has considered the representation made by one Mr. Ranbir Singh and reiterates the merit of its recommendations as conveyed through minutes dated 26thSeptember, 2020.

JKEAC is of the strong view that Sh. Manas Vyas. of M/S P&M Solutions, Noida representing the above cited mining blocks, who knows the technicalities behind the decisions taken in the instant cases, should properly advise/guide the project proponent to avoid such misconceptions.

In the end, minutes of the meeting of 21st JKEAC were confirmed and the Secretary thanked the Chairman, Members and the participating project proponents and consultants for attending the meeting.



SECRETARY
JKUT level Expert Appraisal Committee

No: EAC/JK/20/3923-36

Dated: 31/12/2020

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.