



0191-2474553/0194-2490602



Ministry of Environment, Forest & Climate Change, Govt. of India.
J&K UT LEVEL EXPERT APPRAISAL COMMITTEE(JKEAC)
Department of Ecology, Environment & Remote Sensing
ParyavaranBhavan, 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 45th MEETING OF THE JK EXPERT APPRAISAL COMMITTEE HELD ON 14/06/2021 VIA VIDEO CONFERENCING OWING TO COVID-19 OUTBREAK AND SUBSEQUENT MITIGATIVE MEASURES

In pursuance to meeting Notice issued vide No: EAC/JK/20/7548-570 dated 04/06/2021 , the 45th meeting of JKEAC was held on 14th of June, 2021 via video Conferencing owing to COVID-19 SoPs. The following members attended the meeting on the said dates: -

1. Mr. S.C. Sharma, IFS(Rtd.)	Chairman
2. Engineer BB Sharma	Member
3. Prof. Falendra Kumar Sudan	Member
4. Mr. A.R. Makroo	Member
5. Prof. Anil Kr. Raina	Member
6. Prof. Arvind Jasrotia	Member
7. Mr. Humayun Rashid	Secretary

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

The meeting proceeded as per following sequence: -

Agenda Item No: 01	Grant of Terms of Reference in favour of M/S Sai Mines at Logate Tehsil & District Kathua. saimine.ec@gmail.com
Proposal No:	SIA/JK/MIN/63064/2021
File No:	SEAC/JK/20/527
Consultant:	P and M Solutions

Title of the Case: Grant of Terms of Reference for River Bed Mining in Block No.2/5, Nowshera Tawi River Downstream Muradpur Bridge (Naria area) Rajouri (Part-X) Lease Area-9.40 Hectare.

Deliberations: The project was represented by Shri Manas Vyas on behalf of the consultant M/S P&M Solutions, Noida. The Project proponent was represented by Shri Mohd Rashid Khan. The consultant gave a detailed PowerPoint Presentation on the project during which he discussed the various aspects of the project including LoI, Mining plan approval, minable reserves at 1m depth, haulage route etc. The Chairman informed the Committee Members that as per Sand Mining monitoring and enforcement guidelines of 2020, the extraction has not to exceed 60% of the mine lease area in general. The matter was deliberated threadbare and it was desired that while calculating targeted mineral production and while formulating the mining plan, the project proponent shall ensure that the area for removal of minerals shall not exceed 60% of the mine lease area, and any deviation or relaxation in this regard shall be adequately supported by the scientific report. It was therefore decided that a specific ToR shall be included in this regard so that the mining plan and PFRs are tuned up to match this prescription of the Sand Mining monitoring and enforcement guidelines of 2020. The mining block was examined on the Google Earth image using the KML file emailed by the consultant and it was observed that the same is traversing through the active water channel. Therefore, the Committee desired that the Consultant shall have to plan an alternative haulage route. The Committee also observed features indicative of illegal mining within and outside the mining block and desired constitution of the interdepartmental Committee to fix responsibility in this regard. The Committee reiterated that the mining depth shall be restricted to maximum of 1m in aggregate in view of nonavailability of replenishment data in the District Survey Report.

Recommendation: In view of the above deliberations, the Committee recommended grant of Terms of Reference to the project as per **Annexure A** to these minutes subject to: -

1. Condition that the project proponent obtains a detailed report and NOC from the stake holder departments to the effect that the mining activity will not have any adverse impact on irrigation canals /kuhls and there shall be no adverse impact on the availability of drinking water in the villages downstream of the mining block.

2. Realignment of the mining block along the flow of nala to enable channelizing of the nala bed or alternatively resizing of the mining block to exclude the active water channel.
3. Condition, the haulage route does not traverse through the active water channel.
4. Revision of mining plan with calculation of minor mineral production at maximum 1m depth in aggregate in the light of deliberations of the JKEAC and its de-novo approval by the competent authority prior to grant of ToR or as decided by the JKEIAA.
5. Condition, the local public representatives of Billawar Town who had submitted a complaint earlier are consulted during the Public Hearing and their concerns are recorded and addressed in clear terms.

Agenda Item No: 02 Grant of Terms of Reference in favour of M/S Sai Mines at Logate Tehsil & District Kathua. saimine.ec@gmail.com

Proposal No: SIA/JK/MIN/63065/2021

File No: SEAC/JK/20/528

Consultant: **P and M Solutions**

Title of the Case: Grant of Terms of Reference for Riverbed Mining Project of Minor Mineral in Block No 3/8, Nowshera Tawi River Downstream (Nowshera Jabba) Bridge (Beri Pattan Area) Rajouri (Plan-VIII), Area 7.68 Ha.

Deliberations: The project was represented by Shri Manas Vyas on behalf of the consultant M/S P&M Solutions, Noida. The Project proponent was represented by Shri Mohd Rashid Khan. The consultant gave a detailed PowerPoint Presentation on the project during which he discussed the various aspects of the project including LoI, Mining plan approval, minable reserves at maximum 1m depth, haulage route etc. The mining block was examined on the Multidate -multiseason Google Earth images using the KML file emailed by the consultant and it was observed that more than 70% area of the designated mining block falls under active water channel. The Committee opined that it will not be ecologically feasible to permit mining in the designated mining block.

Recommendation: In view of the above deliberations, the Committee recommended the project for rejection of Terms of Reference. However, on the request of Project proponent, the Geology & Mining Department is free to relocate the mining block at an appropriate place and enable PP to apply for grant of ToRs

afresh after formulation of a fresh mining plan prescribing mining depth of maximum 1m in aggregate in consultation with other stake holder departments.

Agenda Item No: 03 Grant of Terms of Reference in favour of M/S Singh Minerals R/o Near Kali Mata Mandir Kolluwali Gali, Pathankot. snghminerals@gmail.com
Proposal No: SIA/JK/MIN/63073/2021
File No: SEAC/JK/20/529
Consultant: **P and M Solutions**
Title of the Case: Grant of Terms of Reference for Riverbed Mining Project of Minor Mineral in Block No 3/6, Nowshera Tawi River Downstream (Nowshera Jabba) Bridge (Bhaganoti area) Rajouri (Part-VI), Area 9.32 Ha.

Deliberations: The project was represented by Shri Manas Vyas on behalf of the consultant M/S P&M Solutions, Noida. The Project proponent was represented by Shri Mohd Rashid Khan. The consultant gave a detailed PowerPoint Presentation on the project during which he discussed the various aspects of the project including LoI, Mining plan approval, minable reserves at max.1m depth, haulage route etc. The mining block was examined on the Multidate-multi-season Google Earth images using the KML file emailed by the consultant and it was observed that approx. 40% of the mining block area in average falls under active water channel. The Committee also observed a huge chunk of dry river bed closely adjacent to the mining block towards the North-West limits which is subjected to illegal mining activity. Therefore, the Committee opined that it would be appropriate if the mining block is slightly relocated towards north-west direction to include the dry river bed which would automatically decrease the area under active water channel. Besides, the Committee also observed features indicative of illegal mining within and outside the mining block and desired constitution of the interdepartmental Committee to fix responsibility in this regard. The Committee reiterated that the mining depth shall be restricted only at maximum 1m aggregate in view of nonavailability of replenishment data in the District Survey Report.

Recommendation: In view of the above deliberations, the Committee recommended grant of Terms of Reference to the project as per **Annexure A** to these minutes subject to: -

1. Relocating the mining block towards north-west direction to include the dry river bed mass there which would automatically decrease the area under active water channel towards East and South West of the mining block limits.
2. Revision of mining plan with revised coordinates and recalculation of minor mineral production at maximum 1m depth in aggregate in the light of deliberations of the JKEAC and its de-novo approval by the competent authority prior to grant of ToR or as decided by the JKEIAA.
3. Condition that an interdepartmental Committee comprising of officers from G&M Dept., Irrigation & Flood Control Dept., Fisheries Dept., Soil Conservation Dept. and SSP concerned is constituted to fix responsibility for the illegal mining activity in the area after recording statements from the local public representatives.

Agenda Item No: 04 Grant of Terms of Reference in favour of M/S Singh Minerals R/o Near Kali Mata Mandir Kolluwali Gali, Pathankot. snglminerals@gmail.com

Proposal No: SIA/JK/MIN/61939/2021

File No: SEAC/JK/20/530

Consultant: **P and M Solutions**

Title of the Case: Grant of Terms of Reference for Minor Mineral Block No. 04 in Naj Nallah Upstream Naj Bridge , District Kathua (Plan-II) Jammu and Kashmir area 9.06 ha.

Deliberations: The project was represented by Shri Manas Vyas on behalf of the consultant M/S P&M Solutions, Noida. The Project proponent was represented by Shri Mohd Rashid Khan. The consultant gave a detailed PowerPoint Presentation on the project during which he discussed the various aspects of the project including LoI, Mining plan approval, minable reserves at max.1m depth, haulage route etc. The mining block was examined on the Google Earth image using the KML file emailed by the consultant and it was observed that the same is lying in the vicinity of Billawar Town. Therefore, the Committee opined that the reservations expressed by the local public representatives in the complaint received earlier also apply to this project. The Committee desired that the copy of complaint along with its Geological/technical Note on the area should be sent to the Geology & Mining Dept. by JKEIAA for examination and appropriate necessary action. It was therefore, opined that detailed report /NOC from the stake holder departments shall have to be obtained prior to grant of EC. The Committee reiterated that the mining depth shall be restricted to maximum 1m aggregate in view of nonavailability of replenishment data in the District Survey Report.

Recommendation: In view of the above deliberations, the Committee recommended grant of Terms of Reference to the project as per **Annexure A** to these minutes subject to: -

1. Condition that the project proponent obtains a detailed report and NOC from the stake holder departments to the effect that the mining activity will not have any adverse impact on irrigation canals /kuhls and there shall be no adverse impact on the availability of drinking water in the villages downstream of the mining block.
2. Condition, the haulage route does not traverse through the active water channel.
3. Revision of mining plan with calculation of minor mineral production at maximum 1m depth in aggregate in the light of deliberations of the JKEAC and its de-novo approval by the competent authority prior to grant of ToR or as decided by the JKEIAA.
4. Condition, the local public representatives of Billawar Town who had submitted a complaint earlier on the subject are consulted during the Public Hearing and their views are recorded and their concerns addressed appropriately.
5. Condition that the representation made by the local public representatives against mining in the area be forwarded to the Geology & Mining Dept. by JKEIAA for examination and further appropriate action.

Agenda Item No: 05 Grant of Terms of Reference in favour of M/S Kishori Lal S/o Sh. Kuldeep Singh R/o Makwal, Tehsil & District-Kathua. kishorilasjan@gmail.com

Proposal No: SIA/JK/MIN/62463/2021

File No: SEAC/JK/20/531

Consultant: **P and M Solutions**

Title of the Case: Grant of Terms of Reference for Minor Mineral Block No. 07 in Bhini River Downstream Kishanpur Road Bridge, District Kathua(Plan-II) Jammu and Kashmir, Area 8.79 Ha.

Deliberations: The project was represented by Shri Manas Vyas on behalf of the consultant M/S P&M Solutions, Noida. The Project proponent was represented by Shri Mohd Rashid Khan. The consultant gave a detailed PowerPoint Presentation on the project during which he discussed the various aspects of the project including

LoI, Mining plan approval, minable reserves at max.1m depth, haulage route etc. The mining block was examined on the Google Earth image using the KML file emailed by the consultant and it was observed that the same is lying in the vicinity of Billawar Town. Therefore, the Committee opined that the reservations expressed by the local public representatives in the complaint received earlier also apply to this project. It was therefore, opined that detailed report /NOC from the stake holder departments shall have to be obtained prior to grant of EC. The Committee observed that the mining block has been identified across the Nalla and it is apprehended that the haulage route may traverse active water channels that are frequently changing course. The Committee reiterated that the mining depth shall be restricted to max. of 1m in aggregate in view of nonavailability of replenishment data in the District Survey Report. Besides, the Committee expressed its apprehensions on haulage route apparently traversing through active water channel due to frequent change of course by the Nala.

Recommendation: In view of the above deliberations, the Committee recommended grant of Terms of Reference to the project as per **Annexure A** to these minutes subject to: -

1. Condition that the project proponent obtains a detailed report and NOC from the stake holder departments to the effect that the mining activity will not have any adverse impact on irrigation canals /kuhls and there shall be no adverse impact on the availability of drinking water in the villages downstream of the mining block.
2. Condition, the haulage route does not traverse through the active water channel.
3. Condition, the mining block is resized / relocated or realigned along the flow of nallah.
4. Revision of mining plan with revised coordinates and calculation of minor mineral production at maximum 1m depth in aggregate in the light of deliberations of the JKEAC and its de-novo approval by the competent authority prior to grant of ToR or as decided by the JKEIAA.
5. Condition, the local public representatives of Billawar Town who had submitted a complaint earlier are consulted during the Public Hearing and their views are recorded and concerns addressed appropriately.

Agenda Item No: 06 Grant of Terms of Reference in favour of M/S Mahavir Mining R/O 01 Lane No 0,3 Saheed Udham Singh Nagar Tehsil & Distt- Pathankot, Punjab.
mahavirmining.ec@rediffmail.com

Proposal No: SIA/JK/MIN/62477/2021
File No: SEAC/JK/20/532
Consultant: **P and M Solutions**
Title of the Case: Grant of Terms of Reference for Minor Mineral Block No. 9 in Bhini River Downstream Kishanpur Road Bridge, District Kathua, Jammu and Kashmir, Area 9.15 Ha.

Deliberations: The project was represented by Shri Manas Vyas on behalf of the consultant M/S P&M Solutions, Noida. The Project proponent was represented by Shri Mohd Rashid Khan. The consultant gave a detailed PowerPoint Presentation on the project during which he discussed the various aspects of the project including LoI, Mining plan approval, minable reserves at 1m depth, haulage route etc. The mining block was examined on the Google Earth image using the KML file emailed by the consultant and it was observed that the same is lying in the vicinity of Billawar Town. Therefore, the Committee opined that the reservations expressed by the local public representatives in the complaint received earlier also apply to this project. It was therefore, opined that detailed report /NOC from the stake holder departments shall have to be obtained prior to grant of EC. The Committee reiterated that the mining depth shall be restricted to maximum of 1m in aggregate in view of nonavailability of replenishment data in the District Survey Report. Besides, the Committee expressed its apprehensions on haulage route apparently traversing through active water channel due to frequent change of course by the Nala.

Recommendation: In view of the above deliberations, the Committee recommended grant of Terms of Reference to the project as per **Annexure A** to these minutes subject to: -

1. Condition that the project proponent obtains a detailed report and NOC from the stake holder departments to the effect that the mining activity will not have any adverse impact on irrigation canals /kuhls and there shall be no adverse impact on the availability of drinking water in the villages downstream of the mining block.
2. Condition, the haulage route does not traverse through the active water channel.
3. Condition, the mining block is resized / relocated or realigned along the flow of nallah.
4. Revision of mining plan with revised coordinates and calculation of minor mineral production at maximum 1m depth in aggregate in the light of deliberations of the JKEAC and its de-novo approval by the competent authority prior to grant of ToR or as decided by the JKEIAA.

5. Condition, the local public representatives of Billawar Town who had submitted a complaint earlier are consulted during the Public Hearing and their views are recorded and their concerns addressed appropriately.

Agenda Item No: 07 Grant of Terms of Reference in favour of M/S Shiva Minerals R/O Focal Point Near Pir Baba Chowk, Malikpur, Pathankot. shivamineral.ec@gmail.com
Proposal No: SIA/JK/MIN/62488/2021
File No: SEAC/JK/20/533
Consultant: **P and M Solutions**
Title of the Case: Grant of Terms of Reference for Minor Mineral Block No. 11 in Bhini River Downstream Naj Bridge, District Kathua, Jammu and Kashmir, Area 9.85 Ha.

Deliberations: The project was represented by Shri Manas Vyas on behalf of the consultant M/S P&M Solutions, Noida. The Project proponent was represented by Shri Mohd Rashid Khan. The consultant gave a detailed PowerPoint Presentation on the project during which he discussed the various aspects of the project including LoI, Mining plan approval, minable reserves at 1m depth, haulage route etc. The mining block was examined on the Google Earth image using the KML file emailed by the consultant and it was observed that the same is lying in the vicinity of Billawar Town. The Committee observed that the mining block has been identified across the flow of Nala with huge width which has multiple active water channels of varying width. The Committee expressed its apprehensions that haulage route will always traverse through active water channel due to frequent change of course by the Nala with huge width as observed on the multirate Google sat. images. The Committee opined that there seems no other option but to reject the mining block.

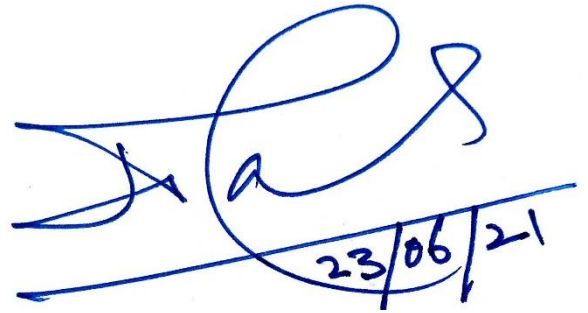
Recommendation: In view of the above deliberations, the Committee recommended rejection of ToRs to the project. However, on the request of project proponent, the Geology & Mining Dept. may relocate the mining block to an appropriate site where there is no or minimum impact on the local environmental settings.

Agenda Item No: 08 Grant of Terms of Reference in favour of M/S Khursheed Ahmad Mir S/o Shri Ghulam Mohammad Mir R/o

Dougham Kakapora, Pulwama, J&K U.T.
kulgamblock26@gmail.com
Proposal No: SIA/JK/MIN/62585/2021
File No: SEAC/JK/20/534
Consultant: **OCEAO-ENVIRO MANAGEMENT SOLUTION**
Title of the Case: Grant of Terms of Reference for Minor Mineral Block No-26, Z-Ashmiji Bridge Downstream, Vishu Nallah, Village Ashmiji Tehsil Kulgam District Kulgam, Area 4.24 Ha.

Deliberations: The project was represented by Shri Himanshu Goel and Shri Varun Bhardwaj on behalf of the consultant M/S Oceo-Enviro Management Solutions. The consultant gave a detailed PowerPoint Presentation on the project during which he discussed the various aspects of the project including LoI, Mining plan approval, minable reserves at 1m depth, haulage route etc. The mining block was examined on the latest available Google Earth image of June 2020 using the KML file emailed by the consultant and it was observed features indicative of heavy illegal mining within and outside the mining block. The illegal mining activity was observed on the multirate images right from 2018 onwards and the entire area seems to have been devastated. The Consultant was asked to email the latest photographs and the video of the river bed condition which were subsequently received and the videographic/photographic evidence also proves that the area has been subjected to illegal mining. Therefore, the Committee desired that the Geology & Mining Dept. should be asked to constitute an interdepartmental Committee comprising of officers of the G&M Dept., Irrigation & Flood Control Dept., Fisheries Department, Soil Conservation Dept. and the SSP concerned for fixing responsibility of the illegal mining in the mining block and other areas in the vicinity after recording statements from the local public representatives. Besides, the examination of the mining block on the Google Earth also revealed that due to heavy illegal mining activity, huge pits containing water have been left everywhere and allowing continuation of mining activity could devastate the area further. Therefore, the Committee opined that ToRs should not be granted unless an explicit joint inspection report is received from the Geology & Mining Dept., Irrigation and Flood Control Dept. and the Fisheries Dept. clearly stating that allowing mining activity in the said mining block would not cause any adverse environmental impact on the irrigation kuhls and fisheries potential.

Recommendation: In view of the above deliberations, the Committee desired that the Geology & Mining Dept. should be asked to constitute an interdepartmental Committee comprising of officers of the G&M Dept., Irrigation & Flood Control Dept., Fisheries Department, Soil Conservation Dept. and the SSP concerned for fixing responsibility of the illegal mining in the mining block and other areas in the vicinity after recording statements from the local public representatives. In the meantime, the Committee recommended the project for rejection of ToRs unless and until the Geology & Mining Dept. constitutes an interdepartmental Committee comprising of officers of the G&M Dept., Irrigation & Flood Control Dept., Fisheries Department, Soil Conservation Dept. and the SSP concerned for fixing responsibility of the illegal mining in the mining block and other areas in the vicinity after recording statements from the local public representatives. Besides, the above referred committee shall explicitly certify that further mining in the mining block would not cause any adverse environmental impact on irrigation kuhls and fisheries potential.



(Humayun Rashid)

S E C R E T A R Y

JKUT level Expert Appraisal Committee

NO:EAC/JK/20/7776-787

Dated:23.06.2021

Copy by email to:

1. The Member Secretary, J&K Environment Impact Assessment Authority (JKEIAA), /PCCF/Director, Ecology, Environment and Remote Sensing, J&K Govt., Jammu for favour kind information and necessary action please.
2. Sh. S. C. Sharma, Chairman, J&K Expert Appraisal Committee, (JKEAC) 331 Shastri Nagar, Jammu-180004 for favour of kind information.
3. Sh. M.ATak, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) 124 Mominabad (Near Jakfed), Anantnag Kashmir,-192101 for favour of kind information.
4. Sh. Braj Bhushan Sharma, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) 278/2 Channi Himmat, Jammu for favour of kind information.

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

Annexure-A

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

STANDARD TERMS OF REFERENCE

- 1) Year-wise production details should be given, clearly stating the highest production achieved in any one year.
- 2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the areas should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided on high resolution satellite image on with geological map of the area, geomorphology of land-forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest

norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large may also be detailed in the EIA Report.

8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.

9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committee's.

13) Status of forestry clearance for the broken-up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.

14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.

15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.

16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.

17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing COMMITTEE of National Board of Wildlife and copy furnished.

18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

19) Proximity to Areas declared as 'Critically Polluted' should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.

20) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs

and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

21) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.

22) Air quality modelling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modelling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

23) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.

24) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.

25) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.

26) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.

27) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

28) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.

29) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.

30) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.

31) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

- 32) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 33) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 34) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 35) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 36) Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 37) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 38) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 39) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 40) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 41) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.

42) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.

43) Besides the above, the below mentioned general points are also to be followed:

- a) Executive Summary of the EIA/EMP Report
- b) All documents to be properly referenced with index and continuous page numbering.
- c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
- e) Where the documents provided are in a language other than English, an English translation should be provided.
- f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
- g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the

environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.

j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area measurements, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

SPECIFIC TERMS OF REFERENCE

1. To submit a detailed site **appreciation note** supported with a video and photographs, describing in detail the physical features of the mining site and structures viz. bridges, canal headworks, Zamindari Kulhs if any existing within a reach of 500mts. from the downstream and the upstream ends of the mining block. The appreciation note will also describe the environmental settings i.e. agricultural lands if any located on the two banks, green patches in close vicinity of the mining block. The site appreciation note shall form an integral part of the EIA report as per decision of JKEIAA taken in its 38th Meeting.
2. Before conducting Public Hearing, the G&M Dept. shall temporarily mark the boundaries of the mining block in consultation with the concerned Revenue Authority and the JKPCB so that locals know during the public Hearing where the mining block is located on ground as per decision of JKEIAA taken in its 38th Meeting.
3. The mining blocks should be demarcated on ground prior to conduct of Public Hearing. All vertices /corners of the mining block must be marked with concrete pillars of size 0.5mtx0.5mt x2.5mts (2.5 mts. is the depth below the NSL) and the Public Hearing Report must preferably mention that the local participants have seen the limits of the mining block as demarcated by such boundary pillars.
4. A comprehensive chapter be included in the EIA report on Cost Benefit Analysis of the mining activity in the mining block underlining the environmental and social costs.
5. 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.

6. Details of Gradient of riverbed and 3-D view draped on the satellite image
7. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr in aggregate.
8. 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.
9. Impact on mining activity on the existing land use in the study area.
10. Impact of mining on aquatic life.
11. NOCs from HoD/competent authority of Irrigation and Flood Control Dept. and Fisheries Dept. OR as specifically asked for in minutes of meeting should be obtained and submitted while applying for EC.
12. 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.
13. 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
14. 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.
15. The Photography and videography of the mining block shall be part of the Terms of Reference.
16. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius
17. The shortest extraction route leading to the main road but with minimum interference with human settlements should be identified and described in detail. This along with the map and its KML file be part of an exclusive chapter in the EMP with adequate budget.
18. Dust suppression measures should be prescribed in the EIA/EMP with adequate budget
19. Post project monitoring plan should be included in the study.
20. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.
21. 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.

22. 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.
23. The impact of mining activity on the neighbouring villages needs to be studied and extraction road need to be such that it has least crossing through village settlements.
24. Mining shall be proposed manually minimally supported by semi-mechanized methods excluding heavy machinery like JBC or L&T hydraulic excavators etc.
25. While calculating targeted mineral production and while formulating the mining plan, the project proponent shall ensure that the area for removal of minerals shall not exceed 60% of the mine lease area, and any deviation or relaxation in this regard shall be adequately supported by the scientific report in accordance with Sand Mining Monitoring & Enforcement Guidelines of 2020.
26. 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.