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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

SDA Housing Colony, Bemina, Srinagar, Kashmir

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MINUTES OF MEETING

MINUTES OF 107TH MEETING OF THE JK EXPERT APPRAISAL COMMITTEE HELD ON 01ST OF FEBRUARY., 2023 VIA VIDEO CONFERENCING

In pursuance of Meeting Notice issued vide No: EAC/JK/23/14598-14617 dated: 24/01/2023, the 106th Meeting of JK Level Expert Appraisal Committee (JKEAC) was held on 1st of February, 2023 at 11 A.M. via video Conferencing. The following attended the meeting:-

No.	Name	Designation
1	Mr. S.C. Sharma, IFS(Rtd.)	Chairman
2	Mr. M.A Tak, IFS(Rtd.)	Member
3	Engineer B.B. Sharma	Member
4	Prof. Anil Kr. Raina	Member
5	Mr. Irfan Yasin	Member
6	Mr. A.R.Makroo	Member
7	Mr.Humayun Rashid	Secretary

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

The meeting proceeded as per following sequence: -

Agenda No.1 to Agenda No.5: Grant of Terms of Reference in favour of mining block No.54(5/29) with an area of 9.89 ha at Khourwali Khad Upstream Bridge , Block No. 5/25 with an area of 9.43 ha at Jad Khad Upstream Jourian Bridge, Block No. 5/21 with revised working area 9.35 Ha at Jad Khad Upstream Jourian Bridge, Block No.4/2 with an area of 9.57 ha. at Bein River Upstream NH-1A Bridge and Block No. 2/5 with an area of 9.17 ha at Basantar River Downstream NH 1A Bridge.

Deliberations:

- Mr. Barinder Singh Chaudhary represented the project proponents of the above mining blocks while as Ms Anjali represented the consultant M/S Vitasta Enviro Services Pvt. Ltd. JKEAC observed that the consultant had applied for ToRs as fresh cases when the ECs stand already granted with an option to seek extension within the validity period of two years subject to conditions of the ECs so granted by JKEIAA.
- The Committee recalled the discussions made in the previous 106th Meeting during which similar cases were placed before the forum and JKEAC had opined that the following decisions taken by JKEIAA to implement the G.O. No.76JK(FST) of 2020 vide para 3 of its MoM bearing No. JKEIAA/2016/02/II/631-633 dated 8/8/2020 pertain to the cases listed under agenda 1 to 5:-

'Where the previous allottee had obtained TORs for reparation of EIA/EMP and had also obtained PHR, the new allottee shall directly apply for EC with all other statutory documents like; Approved Mining plan, Pre-feasibility Report/ EIA/EMP (as per requirement certifying its originality / ownership) including Public Hearing Report(PHR) of the previous allottee. The Expert Appraisal Committee shall appraise all such cases while considering the PHR of the previous allottee and make recommendation on the merits of individual cases for grant of EC with validity period of only 2 years. The EC so granted shall be extended only if the new allottee gets fresh Public Hearing (PHR) conducted for such projects by JKPCB within the 2 years of validity period of EC.'

- c) JKEAC observed that the decision taken by JKEIAA under above para applies to all cases listed under agenda 1 to 5. Therefore, the representative of the PP and the consultant were informed that the listed cases cannot be treated as fresh cases as these pertain to leases under operation after issuance of ECs from time to time, which only require extension in validity subject to compliance of the conditions as laid down in all such environmental clearances and satisfactory replenishment reports.

Recommendations: In view of the above deliberations, JKEAC recommended that the PPs may be asked to apply for extension of the earlier ECs in terms of Minutes of Meeting of JKEIAA issued vide No. JKEIAA/2016/02/II/631-633 dated 8/8/2020 and further subject to compliance of all conditions of the previous ECs and satisfactory replenishment report formulated by G&M Dept. and adopted by JKEIAA.

Agenda item 6: Grant of Terms of Reference for Minor Minerals (RBM) in Bhini River at upstream Painthal Bridge, Block-17, Area 9.11 Ha favouring f M/S Arshdeep Singh S/O Sh. Balraj Singh R/O Faizabad, Gurdaspur.

AGENDA ITEM NO: 06

Title of case:	Grant of Terms of Reference for Minor Minerals (RBM) in Bhini River at upstream Painthal Bridge, Block-17, Area 9.11 Ha in favour of M/S Arshdeep Singh S/O Sh. Balraj Singh (TOR).
Project type (whether mining lease/STP/ Quarry license/brick earth)	Mining Lease
Category(B1/B2)	B1
Proposal no:	SIA/JK/MIN/413832/2023

File no:	SEAC/JK/23/604
Consultant with validity	M/S P & M Solutions Valid till: 07/03/2023
Presenter of consultant:	Mr. Manas Vyas
Project proponent / representative of Project proponent:	Md. Rashid

CASE SUMMARY

Status	Area (Ha)	Bid cost (in lacs)	Project cost (in lacs)	EMP cost proposed (in lacs)		CER budget proposed (lacs/annum)
				Capital	Recurring	
New Project	9.11	40.52	205.64	5.00	9.80	4.11

Mine Closure plan proposed (in lacs)	Mining depth proposed (mts.)	Haulage Route (Kms)	Bulk density proposed by proponent	Cluster situation (Yes/No)
1.00	1.00	0.20	2.00	N0

PROJECT EVENT DATES

Date of Letter of Intent (LoI)	LoI –Date of Extension, if any	LoI Date of Validity	Date of Mining Plan approval	ToRs granted on
17/06/2022	17/06/2022	16/06/2023	06/12/2022	Not yet

G.O 76JK-FST of 2020 dated 29/07/2021 implemented by	Previous Project proponent	Baseline data Collection by project proponent as the case may be	Public Hearing held on	Case discussed by JKEAC earlier on	Area reduced by G&M Dept.
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JKEIAA for the project on					
NA	NA	NA	NA	NA	NA

APPRAISAL PROCESS

(To be filled by JKEAC during online appraisal)

STATUS OF DOCUMENTATION

S. No.	Document	Status	Remarks of the Committee
1	Form 1/Form 2 /Form 1-M as applicable	Submitted	FORM-1 Submitted
2	Pre-feasibility report (PFR)	Submitted	
3	Approved Mine Plan /Mine closure Plan	Formulated not as per guidelines	Mine Plan needs to be revised for area, surface plan, mining depth in tune with rate of replenishment, targeted mineral production, mining methodology etc.
4	District Survey Report	Formulated not as per guidelines	
5	Pre-Feasibility Report / Environmental Management Plan/ Corporate Environmental Responsibility (PFR/EMP/CER)	Formulated but needs revision	Needs revision as per deliberations/ observations /recommendations

NO OBJECTION CERTIFICATES

S. No.	Department	status as per NOC	Remarks/ Reference
1	Irrigation Dept.	Issued conditionally	
2	Flood Control Dept.	Issued conditionally	
3	Fisheries Dept.	Issued conditionally	
4	Forest Dept. (if required)	Issued as non-forest	

5	Wildlife Protection Dept (If required)	Issued	
6	Pollution Control Board	Not submitted	
7	Revenue Dept.	Issued as state land	
8	PHE (Jalshakti) Dept.	Issued	
10	PWD (Public Works dept.)	Issued	

ENVIRONMENTAL MANAGEMENT PLAN

S. No	Proposed actions	Budget proposed by Proponent (in lacs)		Remarks	
		Capital	Recurring		
1	Green belt development	1.00	1.00		
2	Haulage route maintenance	4.00	1.60		
3	Env. Awareness programme	0.00	0.00		
4	Pollution monitoring	0.00	2.00		
5	Dust suppression	0.00	2.00		
6	Occupational Health & Safety of mine workers	0.00	3.00		
	Total	5.00	9.60		

COORPORATE ENVIRONMENT RESPONSIBILITY

S. No.	Project activity	Activities	Annual Budget proposed by Proponent (in lacs)	Remarks
1	Health/drinking water	Free Distribution of medicines, health check-up Installation of hand pumps	0.00	
2	Public awareness programme	Distribution of sanitizer's, gloves & N95 masks to nearby village	0.00	
3	Sanitation	Construction of ladies' toilets in the village.	0.00	

4	Education	Distribution of school bags & books in nearby Primary School Education Grants to girl child to check drop outs in schools.	0.00	
	Total		0.00	

BUDGET FOR SURVEILLANCE

S. No.	Particulars	Budget proposed by Proponent (in lacs)		Remarks/
		Capital	Recurring (in lacs)	
1	Transport Permit	0.00	0.00	Needs appropriate budget
2	CCTV Camera	0.00	0.00	
3	Weight Bridge	0.00	0.00	
4	Personal Computer with power backup	0.00	0.00	
5	Mobile Application Barcode scanner	0.00	0.00	
6	Radio Frequency Identification Tag (RFID) and GPS	0.00	0.00	
7	Annual Audit of lease	0.00	0.00	
8	Security Guard	0.00	0.00	
	Total	0.00	0.00	

EXAMINATION OF MINING SITE ON MULTIDATE GOOGLE EARTH IMAGE PLATFORM USING KML /KMZ FILE EMAILED/UPLOADED BY THE PROJECT PROPONENT/CONSULTANT

S.no.	Features observed	Within Mining site boundary (Yes/No/Not identifiable)	Outside mining site boundary (Yes/No/Not identifiable)	Upstream from mining block (Mts.)	Downstream From mining block (Mts.)	Remarks

1	Features indicative of any Illegal mining.	No	No	-	-	On Google image of 04/2022
2	Bridge with midstream piers, if any, located within mining area/ within 500 mts. from the ends of mining block.	No	No	-	-	--
3	Bridge with only abutments, if any, located within mining area/ within 500 mts. from the ends of mining block.	No	No	-	-	--
4	Foot bridge with only abutments on two banks, if any located within mining area/ within 500 mts. from the ends of mining block.	No	No	-	-	
5	Green patch (Cropland / trees /orchard etc. if any located within mining block/adjacent to mining block or within 500 mts. from the mining block.	No	No	-	-	-

6	Structures of any kind (buildings /Flood control/ protection works/ electric installations, if any located within/adjacent/ in close vicinity to mining block or within 500 mts. of the mining block.	No	No	-	-	-
7	Irrigation canal headworks/ khul inlets, if any located within mining block or within 500 mts. of the mining block.	Not Identifiable	Not Identifiable	-	-	Not Identifiable on Google image of 04/2022
8	Active water channels, if any crossing the mining block.	Yes	Yes	-	-	Active water channel detected within and outside mining block
9	National Park/Wildlife Sanctuary/ESZ, if any located in close vicinity of the mining block and distance thereof from the mining block.	No	No	-	-	
10	Forest land, if any located in close vicinity of the mining block. If yes, the distance thereof	No	No	-	-	

	from the ends of mining block.					
12	Any other relevant feature of interest or condition which is critical to grant of ToRs/EC to the proposed project	No	No	-	-	-

DELIBERATIONS/SPECIFIC OBSERVATION(S) OF COMMITTEE, IF ANY:

- a) This is a fresh case and the PP has applied for grant of ToRs and has submitted the case under B1 category with an area of 9.11 Ha.
- b) The Committee observed that all the relevant NOCs have been submitted as per the latest format uploaded on the Dept. website.
- c) The Committee observed that the mining plan prescribes an annual mining depth of 1 m over a lease period of 5 years which indicates that the mining plan is based on the assumption of 1m annual replenishment which cannot be considered unless supported by satisfactory replenishment data as per mining guidelines.
- d) The Committee observed that the replenishment report of the district has not yet been adopted as the same needs to be updated as per recommendations made by committee earlier on the subject.
- e) The Committee observed that a bulk density of 2 has been used in calculation of the minable reserves without actually determining it on the basis of field survey. The same needs to be adopted as per field measurements.
- f) The project cost has been underestimated and the same needs to be updated with surveillance budget etc.
- g) The mining block was examined on Google Earth Image using the KML/KMZ file supplied by the PP and it was found that active water channel has not been excluded while calculating minable reserves and therefore, Committee desired that the mining block should be resized after excluding the active water channel after maintaining a safe distance of 25m from the edge of active water channel.
- h) Accordingly, JKEAC desired the mining plan and other documentation be revised for surface plan, revised area, targeted mineral production etc. as per actual replenishment and bulk density and its *denovo* approval by the competent authority.

RECOMMENDATION OF THE COMMITTEE:

In view of the above deliberations and insight gained during the above cited appraisal process, the Committee recommended the project for grant of Terms of Reference to complete necessary formalities as per **Annexure-A**, subject to: -

1. Resizing of the mining block to exclude the active water channel.
2. Revising the mining plan, PFR report and other documentation as per deliberations herein above.
3. Computation of actual bulk density based on field measurements for arriving at minable reserves.
4. Compliance of all other observations made herein above under deliberation.

The minutes were formulated online by the JK Level Expert Appraisal Committee (JKEAC) and are hereby issued with approval of the esteemed Chairman, JKEAC.



(Humayun Rashid)
SECRETARY
JKUT level Expert Appraisal Committee

NO:EAC/JK/23/14696-14708

Dated:03-02-2023

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.
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.A Tak, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) 124 Mominabad (Near Jakfed), Anantnag Kashmir,-192101 for favour of kind information.
4. Sh. BrajBhushan 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 ArvindJasrotia 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. IrfanYasin, 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/Executive Summary supported with a video and photographs, describing in detail the physical features of the mining site and structures viz. bridges, canal headworks, Zamindari Khuls if any existing within a reach of 500mts. from the downstream and the upstream ends of the mining block. The appreciation note will also describe the environmental settings i.e. agricultural lands if any located on the two banks, green patches in close vicinity of the mining block. The site appreciation note shall form an integral part of the EIA report as per decision of JKEIAA taken in its 38th Meeting.

2. The mining shall be restricted to 3/4th of the width of the river/riverlet or 7.5 m(inward) from river bank but upto 10% of the width of the river. While calculating targeted mineral production and while formulating the mining plan, the project proponent shall ensure that the area for removal of minerals shall not exceed 60% of the mine lease area, and any deviation or relaxation in this regard shall be adequately supported by the scientific report in accordance with Sand Mining Monitoring & Enforcement Guidelines of 2020.

3. 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.

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.
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 dates on the photograph so captured and same should be submitted in support of the date-wise data sheets. These digital photographs should be submitted in soft as well as appended with the EIA report.

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 formulating the EIA/EMP documents, the mining guidelines of 2016 and 2020 issued by the MoEF&CC shall be strictly followed.

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 or as per latest notifications from MoEF&CC.