



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
SDA Housing Colony, Bemina, Srinagar, Kashmir
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MINUTES OF MEETING

MINUTES OF 62nd MEETING OF THE JK EXPERT APPRAISAL COMMITTEE HELD ON 30th of September, 2021 VIA VIDEO CONFERENCING

In pursuance to Meeting Notice issued vide No: EAC/JK/20/9529-550 Dated:27/09/2021, the 62nd meeting of JK Level Expert Appraisal Committee (JKEAC) was held on 30th of September, 2021 via video Conferencing. The following members of JKEAC attended the meeting: -

1	Mr. S.C. Sharma, IFS(Rtd.)	Chairman
2	Mr. M.A Tak, IFS(Rtd.)	Member
3	Engineer BB Sharma	Member
4	Mr. Irfan Yasin	Member
5	Mr. G. M. Dar	Member
6	Mr. Majid Farooq	Secretary

The Secretary, JKEAC welcomed Chairman and other participating Members of JKEAC, participating project proponents and the Consultants.

The meeting proceeded as per following sequence: -

AGENDA ITEM NO: 01

Title of case:	Grant of Terms of Reference for Minor Mineral Block - 12, Area (8.31) Ha GSM Bungam to GSM Wagnulla Downstream (Ferozpora Nallah), Baramulla near Village- Hayatpora, Kulhama, Parimpora, Tumberhama, Ogmuna and Bungam, District-Baramulla, J & K, in favour of Shri Jagdish Singh S/O Shri. Vijay Singh.
Project type (whether mining lease/STP/ Quarry license/brick earth)	Mining Lease
Category(B1/B2)	B1
Proposal no:	SIA/JK/MIN/63761/2021
File no:	SEAC/JK/20/540
Consultant with validity	M/S P& M solutions Pvt. Ltd, Noida. Valid till: 10/12/2022
Presenter of consultant:	Mr. Manas Vyas
Project proponent representative of Project proponent:	Shri Mohd. Rashid Khan

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	8.31	15.10	109	3.43	5.45	2.18

Mine Closure plan proposed (in lacs)	Mining depth proposed (mts.)	Haulage Route (Kms)	Bulk density proposed by proponent	Cluster situation (Yes/No)
1.10	1.0	0.52	2	Yes

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
17/07/2020	15/04/2021	31/08/2021	17/05/2021	NA

G.O 76JK-FST of 2020 dated 29/07/2021 implemented by JKEIAA for the project on	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.
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	
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 mining depth, closure plan, surface plan, targeted mineral production, mining methodology etc.
4	District Survey Report	Formulated but not as per guidelines	Needs revision for including replenishment data etc.
5	Environmental Impact Assessment / Environmental Management Plan/ Corporate Environmental Responsibility (EIA/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.	Not submitted	NOCs issued under Single window system by Additional Deputy Commissioner Vide No: ADCB/Reader/2021-22/422-34 dated: 29/05/2021.
2	Flood Control Dept.	Not submitted	
3	Fisheries Dept.	Issued with conditions	
4	Forest Dept. (if required)	Issued as non-forest	
5	Wildlife Protection Dept. (If required)	Issued with conditions	
6	Pollution Control Board	Issued with conditions	
7	Revenue Dept.	Not submitted	
8	PHE (Jalshakti) Dept.	Issued with conditions	
10	Soil and Water Conservation dept.	---	

ENVIRONMENTAL MANAGEMENT PLAN

S. No	Proposed actions	Budget proposed by Proponent (in lacs)		Remarks/
		Capital	Recurring	
1	Green belt development	0.83	0.75	Appropriate budget, in conformance with discussion and observations made during the course of SEAC meeting, to be provided under EMP while applying for EC
2	Haulage route maintenance	2.60	1.62	
3	Env. Awareness programme	0.00	0.00	
4	Pollution monitoring	0.00	1.00	
5	Dust suppression	0.00	1.00	
6	Occupational Health & Safety of mine workers	0.00	1.08	
	Total	3.43	5.45	

COORPORATE ENVIRONMENT RESPONSIBILITY

S. No.	Project activity	Activities	Annual Budget proposed by Proponent (in lacs)	Remarks/
1	Health	Free Distribution of medicines, health check-up Installation of hand pumps	1.00	
2	Covid-19 precautions	Distribution of sanitizer's, gloves & N95 masks to nearby village	0.48	
3	Sanitation	Construction of ladies' toilets in the village.	0.70	
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		2.18	

BUDGET FOR SURVILIENCE

S. No.	Particulars	Budget proposed by Proponent (in lacs)		Remarks
		Capital	Recurring (in lacs)	
1	Transport Permit	2.00	0.00	
2	CCTV Camera	1.00	0.10	
3	Weight Bridge	10.00	1.00	
4	Personal Computer with power backup	0.50	0.05	

5	Mobile Application Barcode scanner	0.50	0.05	
6	Radio Frequency Identification Tag (RFID) and GPS	1.00	0.10	
7	Annual Audit of lease	0.00	0.70	
8	Security Guard	0.00	0.80	
	Total	15.00	2.80	

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.	Yes	Yes	-	-	Google Image of May/2019
2	Bridge with midstream piers, if any, located within mining area/ within 500 mts. from the edges of mining block.	No	No	-	-	
3	Bridge with only abutments, if any, located within mining area/ within 500 mts. from the edges of mining block.	No	Yes	-	-	
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.	Yes	Yes	-	-	Trees/Agri

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	Yes	-	-	School building 160m from block
7	Irrigation canal headworks/ khul inlets, if any located within mining block or within 500 mts. of the mining block.	Yes	Yes	-	-	Identifiable on Google Image of May/2019 running through the block
8	Active water channels, if any crossing the mining block.	Yes	Yes	-	-	Need to be excluded from mining activity
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 from the ends of mining block.	No	No	-	-	
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) Physical signs of illegal mining activity visible on Google image of the mining block dated May, 2019. Actual status, as on date, needs to be got clarified through the Multi Department District Level Task Force (MDLTF) Cell.
- b) Two Irrigation kuhls, catering to irrigation requirement of nearby villages were observed originating/passing through the mining block. Categorical NOC, besides the clearance / concurrence from the concerned PRI, to the effect that mining activity will not adversely affect existing capacity of the kuhls to irrigate lands on the banks, needs to be obtained from I&FC Department.
- c) Project Proponent shall take into account and provide in the project estimates the cost of flood protection works, as required for protection of school and the playground located at a distance of less than 150m from the edge of the proposed mining block. SEAC apprehends that mining activity may change the nalla course and erode its bank on which the school is located.
- d) A bridge was found existing at a distance of 380m from the edge of mining block. The block needs to be resized to comply with existing norms to provide a safe distance from the structures of public importance.
- e) All along its length, the mining block is observed to be abutting crop land. Project cost needs to be revised taking into account the cost of protection works, as may be required to limit the excavation for minor minerals within the confines of allotted block.
- f) Costs associated with regulatory process need to be provided in project estimates.
- g) Replenishment data for the minor mineral block is not available. The depth of excavation for minor mineral, therefore, shall conform to existing norm and not exceed 1.00 mt in aggregate bgl under all circumstances.
- h) Project Proponent would require revision of mining plan including the mine closure plan and work out the revised minor mineral production targets/ ceilings taking into account the restricted depth of excavation of 1.00 mt in aggregate and obtain, de-novo approvals from the Competent Authority/ Authorities.

RECOMMENDATION OF THE COMMITTEE:

In view of the above deliberations and insight gained during the course of appraisal process, the Committee recommended the case for grant of Terms of reference subject to: -

- a) Standard and Specific Conditions as per **Annexure A** to these Minutes of Meeting.
- b) Explicit report from the Multi Dept. District level Task Force (MLDTF) Cell to the effect that the PP is not involved in illegal mining /mining activity.
- c) Categorical clearance and NOCs from the concerned PRI and I&FC Department to the effect that mining activity will not adversely affect the existing irrigation facilities.
- d) Consultation with the school authorities / concerned local public authorities and provision of sufficient funds to undertake the requisite activities under EMP as deliberated herein above.
- e) Resizing/ reduction in mine size to maintain safe distance from the bridge, as per existing norm.
- f) Revision of the mining plan/ mine closure plan keeping in view the restricted depth of excavation of 1.00 mt in aggregate and consequent revision in minor mineral production targets/ ceilings.
- g) Requisite approval/s from the competent authorities.

AGENDA ITEM NO: 02

Title of case:	Grant of Terms of reference for Minor Mineral Block -11, Area (6.68) Ha. Pariswani Road to GSM Bungam Downstream (Ferozpora Nallah), Baramulla near Village- Durhama, Kulhama, Tumberhama and Bungam District- Baramulla, Jammu and Kashmir, in favour of Shri. Kapil Agarwal S/O Shri. Jugesh Agarwal.
Project type (whether mining lease/STP/Quarry license/brick earth)	Mining Lease
Category(B1/B2)	B1
Proposal no:	SIA/JK/MIN/63726/2021
File no:	SEAC/JK/20/541
Consultant with validity	M/S P& M solutions Pvt. Ltd, Noida. Valid till: 10/12/2022
Presenter of consultant:	Mr.Manas Vyas
Project proponent representative of Project proponent:	Mr. Mohd. Rashid Khan

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	6.68	15.01	108.91	2.09	5.45	2.17

Mine Closure plan proposed (in lacs)	Mining depth proposed (mts.)	Haulage Route (Kms)	Bulk density proposed by proponent	Cluster situation (Yes/No)
1.10	1	0.28	2	Yes

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
17/07/2020	15/04/2021	31/08/2021	17/05/2021	NA

G.O 76JK-FST of 2020 dated 29/07/2021 implemented by JKEIAA for the project on	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.
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	

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 mining depth, closure plan, surface plan, targeted mineral production, mining methodology etc.
4	District Survey Report	Formulated not as per guidelines	Needs revision for including replenishment data etc.
5	Environmental Impact Assessment / Environmental Management Plan/ Corporate Environmental Responsibility (EIA/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.	Not submitted	NOCs issued under Single window system by Additional Deputy Commissioner Vide No: ADCB/Reader/2021-22/428-61 dated: 29/05/2021.
2	Flood Control Dept.	Not submitted	
3	Fisheries Dept.	Issued with conditions	
4	Forest Dept. (if required)	Issued as non-forest	
5	Wildlife Protection Dept (If required)	Issued with conditions	
6	Pollution Control Board	Issued with conditions	
7	Revenue Dept.	Not submitted	
8	PHE (Jalshakti) Dept.	Issued with conditions	
10	Soil and Water Conservation dept.	---	

ENVIRONMENTAL MANAGEMENT PLAN

S. No	Proposed actions	Budget proposed by Proponent (in lacs)		Remarks/
		Capital	Recurring	
1	Green belt development	0.69	0.75	Appropriate budget need to be provided at the time of applying for EC
2	Haulage route maintenance	1.40	1.62	
3	Env. Awareness programme	0.00	0.00	
4	Pollution monitoring	0.00	1.00	
5	Dust suppression	0.00	1.00	
6	Occupational Health & Safety of mine workers	0.00	1.08	
	Total	2.09	5.45	

COORPORATE ENVIRONMENT RESPONSIBILITY

S. No.	Project activity	Activities	Annual Budget proposed by Proponent (in lacs)	Remarks/
1	Health	Free Distribution of medicines, health check-up Installation of hand pumps	1.00	

2	Covid-19 precautions	Distribution of sanitizer's, gloves & N95 masks to nearby village	0.47	
3	Sanitation	Construction of ladies' toilets in the village.	0.70	
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		2.17	

BUDGET FOR SURVILIENCE

S. No.	Particulars	Budget proposed by Proponent (in lacs)		Remarks
		Capital	Recurring (in lacs)	
1	Transport Permit	2.00	0.00	
2	CCTV Camera	1.00	0.10	
3	Weight Bridge	10.00	1.00	
4	Personal Computer with power backup	0.50	0.05	
5	Mobile Application Barcode scanner	0.50	0.05	
6	Radio Frequency Identification Tag (RFID) and GPS	1.00	0.10	
7	Annual Audit of lease	0.00	0.70	
8	Security Guard	0.00	0.80	
	Total	15.00	2.80	

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.	Yes	Yes	-	-	Google Image of May/2019
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	Yes	-	-	Google Image of May/2019

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.	Yes	Yes	-	-	Trees
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	Yes	-	-	Three building type structures some 205m away from mining block.
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 May/2019
8	Active water channels, if any crossing the mining block.	Yes	Yes	-	-	Need to be excluded from mining activity
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 from the ends of mining block.	No	No	-	-	
12	Any other relevant feature of interest or condition which is critical to grant of ToRs/EC to the proposed project	Yes	No	-	-	Bungam - Pariswani road falling within the mining block.

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

- a) Illegal mining activity noticed in the mining block as per features visible on Google image of May, 2019. The present status needs to be got clarified through the Multi Dept. District Level Task Force (MLDTF) Cell.
- b) 2 no village roads are observed to be existing, one just by the side and another passing right through the middle of length of the proposed mining block. The proposed mining block, therefore, needs to be reduced/resized and NOC from the concerned stake holder Departments viz. R&B Dept. / RDD and the concerned PRI need to be secured.
- c) Subject to grant of NOC as above, Project Proponent shall take into account and provide for the cost of protection works, if the same are required to be constructed to protect the public assets from likely damages from mining activity.
- d) Project cost has been underestimated by the consultant as it does not include cost of EMP, Env. Clearance processing fee/ PCCs Consent fee etc. The project estimates, therefore, need to be revised accordingly.
- e) EMP needs to be revised to provide for adequate provisions for the activities.
- f) Mining plan shall have to be revised in conformance with NOC prescribed at para (b) above.
- g) Depth of excavation for minor mineral shall be restricted to max.1.00 mt bgl in view of non-availability of replenishment data in the DSRs formulated by the G&M Dept.
- h) Fresh approval from the Competent Authorities shall have to be obtained to reflect the changes in mining block boundaries, if any, and consequent changes in mineral production targets/ceilings due to changes in the mine size and the restricted depth of excavation.

RECOMMENDATION OF THE COMMITTEE:

In view of the above deliberations and insight gained during the above cited appraisal process, the Committee recommended the case for grant of Terms of Reference subject to: -

- a) Standard and Specific Conditions as per **Annexure A** to these Minutes of Meeting.
- b) Explicit report from the Multi Dept. District level Task Force (MLDTF) Cell to the effect that the PP is not involved in illegal mining /mining activity.
- c) Resizing of mining block, in conformance to ensure safety of the existing roads located by the side of mining block or through the mining block.

- d) Subject to grant of NOC as above, Project Proponent shall take into account and provide for the cost of protection works, if the same are required to be constructed to protect the public assets from likely damages from mining activity.

AGENDA ITEM NO: 03

Title of case:	Grant of Environmental Clearance (EC) of River bed mining material Block No. 22, Area (7.51) Ha from Chenab River at Village- Pandhal, Jerri Tehsil & District Reasi (J&K) in favour of Shri Jugesh Agarwal S/O Shri. Tara Chand.
Project type (whether mining lease/STP/ Quarry license/brick earth)	Mining Lease
Category(B1/B2)	B1
Proposal no:	SIA/JK/MIN/54587/2020
File no:	SEAC/JK/20/195
Consultant with validity	M/S P & M solutions Pvt. Ltd, Noida valid till: 10/12/2022
Presenter of consultant:	Mr. Manas Vyas
Project proponent / representative of Project proponent:	Mohd. Rashid Khan

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	7.51	241.16	321.56	3.35	16.07	6.43

Mine Closure plan proposed (in lacs)	Revised Mining depth proposed (mts.)	Haulage Route (Kms)	Bulk density proposed by proponent	Cluster situation (Yes/No)
0.015	1	0.52	2	Yes

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
27/03/2020	15/04/2021	31/08/2021	04/06/2020	17/08/2020

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.

JKEIAA for the project on					
NA	NA	Oct-Dec 2020	29-03-2021	06-08-2020	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	
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 mining depth, closure plan, surface plan, targeted mineral production, mining methodology etc.
4	District Survey Report	Formulated not as per guidelines	Needs revision for including replenishment data etc.
5	Environmental Impact Assessment / Environmental Management Plan/ Corporate Environmental Responsibility (EIA/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.	Not submitted	
3	Fisheries Dept.	Issued conditionally	
4	Forest Dept. (if required)	Issued as non-forest	
5	Wildlife Protection Dept (If required)	Not submitted	
6	Pollution Control Board	Not submitted	
7	Revenue Dept.	Not submitted	
8	PHE (Jalshakti) Dept.	Issued conditionally	
10	Soil and Water Conservation dept.	---	

ENVIRONMENTAL MANAGEMENT PLAN

S. No	Proposed actions	Budget proposed by Proponent (in lacs)		Remarks/ Budget recommended by Committee (in lacs)	
		Capital	Recurring	Capital	Recurring
1	Green belt development	0.75	1.20	6.00	5.00
2	Haulage route maintenance	2.60	1.60	6.00	4.00
3.	Env. Awareness programme	0.00	0.00	0.50	0.50
4	Pollution monitoring	0.00	4.50	2.00	2.00
5	Dust suppression	0.00	4.50	2.00	2.00
6	Occupational Health & Safety of mine workers	0.00	4.27	3.00	2.00
	Total	3.35	16.07	19.50	15.50

COORPORATE ENVIRONMENT RESPONSIBILITY

S. No.	Project activity	Activities	Annual Budget proposed by Proponent (in lacs)	Remarks
1	Health	Free Distribution of medicines, health check-up.	2.45	
2	Drinking water	Drinking water facility in the nearby village	2.00	
3	Covid-19	Distribution of sanitizers, gloves, N95 mask to the nearby village	0.98	
4	Protection wall	Construction of protection wall on one side of the mining block for not disturbing the nearby agriculture land	1.00	
Total			6.43	

BUDGET FOR SURVILIENCE

S. No.	Particulars	Budget proposed by Proponent (in lacs)		Remarks
		Capital	Recurring (in lacs)	
1	Transport Permit	2.00	0.00	
2	CCTV Camera	1.00	0.10	
3	Weight Bridge	10.00	1.00	
4	Personal Computer with power backup	0.50	0.05	
5	Mobile Application Barcode scanner	0.50	0.05	
6	Radio Frequency Identification Tag (RFID) and GPS	1.00	0.10	
7	Annual Audit of lease	0.00	0.70	
8	Security Guard	0.00	0.80	
Total		15.00	2.80	

GENERAL PUBLIC HEARING CONCERNS

S. No.	Usual concerns expressed by public during proceedings	(Yes/No)
1	Proper demarcation of mining block/mining depth to be maintained	Yes
2	Prevention of illegal mining	---
3	EMP cost to be implemented practically	---
4	CER/CSR Activities for social upliftment	Yes
5	RBM material to locals on concessional rates	Yes
6	Manual mining & Employment to the local unemployed youth	Yes
7	Display of contact details of concerned authorities for enabling locals to report illegal mining or violation of EC conditions	---
8	Pollution, land degradation, loss of water body, irrigation channels and rivulets	---
9	Loss of land, unemployment and environmental concerns	---
10	Protection wall should be constructed for the protection of agriculture lands situated adjacent to the mining block.	Yes
11	Locals should get the minor minerals at concessional rates	Yes

12	Rates of minor minerals should be genuine	Yes
14	Land along banks of Chenab river should be protected	Yes

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.	Yes	Yes	-	-	Google Image of April/2020
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	No	No	-	-	

	installations, if any located within/adjacent/ in close vicinity to mining block or within 500 mts. of the mining block.					
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 April/2020
8	Active water channels, if any crossing the mining block.	No	Yes	-	-	Google Image of April/2020
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 from the ends of mining block.	No	No	-	-	
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) The project had earlier been discussed during 10th meeting held on 06.08.2020 during which the Committee recommended TORs to the project. It was observed that the mineral block No. 22, 23 and 24 were located within 500 meters distance from each other and therefore, in order to assess the cumulative impact of all the three projects on the local environmental settings, the Committee unanimously agreed to treat it as a cluster situation although falling in member category B1.

- b) Illegal mining activity was observed in the mining block as per physical features on Google image of April, 2020. The visible illegal mining activity needs to be got clarified through the Multi Department District Level Task Force (MDLTF) Cell prior to grant of formal EC.
- c) The JKEAC observed that the queries raised during the Public hearing needs to be addressed by the PP as soon as the work on mining block starts formally.
- d) The JKEAC desired that the conditions of NOC of stakeholder department need to be adhered to in letter and spirit.
- e) The compliance to specific ToR condition relating to photographs of display screen displaying the date of collection of data missing in EIA report which needs to be complied in letter and spirit prior to grant of EC.
- f) Project cost has been underestimated by the consultant as it does not include cost of EMP, PCCs Consent fee etc. and therefore needs to be revised prior to grant of EC.
- g) EMP needs to be revised with appropriate budget as suggested in the remark's column of EMP table above.
- h) Revision of the mining plan with mine closure plan, revised mining depth, surface plan, targeted mineral production and replenishment and its *denovo* approval by the competent authority prior to grant of EC or as decided by JKEIAA.
- i) Mining depth be restricted to max.1m in aggregate in view of non-availability of replenishment data in the DSRs formulated by the G&M Dept.
- j) Bulk density of 2.25 mentioned in mining plan not agreed by the Committee. A nominal bulk density of 2 to be used in absence of actual measurements in field.

RECOMMENDATION OF THE COMMITTEE:

In view of the above deliberations and insight gained during the above cited appraisal process, the Committee recommended the case for grant of Environmental Clearance subject to: -

- a) Standard and Specific Conditions as per **Annexure B** to these Minutes of Meeting.
- b) Explicit report from the Multi Dept. District Level Task Force (MDLTF) Cell to the effect that the PP is not involved in illegal mining /mining activity, prior to grant of EC.
- c) Revision of EIA report with compliance of specific ToR condition relating to photographs of display screen displaying the date of collection of data before grant of formal EC.
- d) Revision of the mining plan with mine closure plan, revised mining depth, surface plan, targeted mineral production and replenishment and its *denovo* approval by the competent authority prior to grant of EC or as decided by JKEIAA.
- e) Revision of EMP budget as suggested in the remark's column of table above.
- f) Mining depth of max.1m in aggregate in view of non-availability of replenishment data in the DSRs formulated by the G&M Dept.
- g) Bulk density of 2 in absence of actual measurements.
- h) **Strict adherence to the terms and conditions of the NOCs of the stakeholder departments especially conditions laid by the Fisheries Department, Irrigation and Jal Shakti Dept. which need to be monitored by the enforcement agencies and concerned dept.**
- i) **No JCBs/ Excavators/ Bulldozers to be used in mining and no water course to be disturbed while transporting minor minerals.**
- j) Maximum targeted mineral production of 90120 MT.
- k) Condition the geographical coordinates as per LoI issued by G&M Dept. are mentioned in the EC letter by JKEIAA

- 1) Validity of only three years from the date of commencement of the mining operations duly certified by the District Mineral Officer concerned with intimation to the JKEIAA and JKPCB in view of non-availability of replenishment data.

AGENDA ITEM NO: 04

Title of case:	Grant of Environmental Clearance (EC) for RBM (River Bed Mineral) Minor Mineral Block Mining Project, Area of 7.43 ha., Block- 23, at Chenab River upstream of its confluence with Jerri Nallah (Near Jerri Bridge) Village- Pandhal and Jerri, Tehsil & District-Reasi, State-Jammu & Kashmir favoring M/S Rattan Lal Jalla S/O shri Sat Pal Jalla, Roop Nagar Jammu and Kashmir.
Project type (whether mining lease/STP/ Quarry license/brick earth)	Mining Lease
Category (B1/B2)	B1
Proposal no:	SIA/JK/MIN/54789/2020
File no:	SEAC/JK/20/198
Consultant with validity	P and M Solution 10/12/2022
Presenter of consultant:	Manas Vyas
Project proponent / representative of Project proponent:	Mr. Rattan Lal Jalla

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	7.43	251.96	332.36	2.4	16.61	6.63

Mine Closure plan proposed (in lacs)	Mining depth proposed (mts.)	Haulage Route (Kms)	Bulk density proposed by proponent in PFR/EIA	Cluster situation (Yes/No)
1500	1.00	0.33	2.00	Yes

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
27.03.2020	15/04/2021	31/08/2021	30/04/2020	17/08/2020

G.O 76JK-FST of 2020 dated 29/07/2021 implemented by JKEIAA for the project on	Previous Project proponent	Baseline data Collection by (previous) project proponent as the case may be	Public Hearing held on	Case Discussed by JKEAC earlier on	Area reduced by G&M Dept.
NA	NA	-	29-03-2021	06/08/2020	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	
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 mining depth, closure plan, surface plan, targeted mineral production, mining methodology etc.
4	District Survey Report	Formulated not as per guidelines	Needs revision for including replenishment data etc.
5	(Environmental Management Plan/ Corporate Environmental Responsibility (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	
2	Flood Control Dept.	Issued Conditionally	
3	Fisheries Dept.	Issued Conditionally	
4	Forest Dept.	Issued as non-forest land	
5	Wildlife Protection Dept	Not issued	
6	Pollution Control Board	Not issued	
7	Revenue Dept.	Not issued	
8	PHE (Jalshakti) Dept.	Issued Conditionally	
10	Soil and Water Conservation dept.	---	

ENVIRONMENTAL MANAGEMENT PLAN

S. No	Proposed actions	Budget proposed by Proponent (in lacs)		Remarks/ Budget recommended by Committee (in lacs)	
		Capital	Recurring	Capital	Recurring
1	Green belt development	0.75	1.20	2.00	3.50
2	Haulage route maintenance	1.65	1.6	3.00	2.00
3.	Env. Awareness programme	0.00	0.00	1.00	0.50
4	Pollution Monitoring	0.00	5.00	2.00	5.00
5	Pollution control/ water sprinkling/Dust suppression	0.00	4.00	2.00	4.00
6	Solid waste management	0.00	0.00	1.00	0.50

7.	Occupational Health & Safety of mine workers	0.00	4.81	2.00	4.81
8	Laying of Hume pipes	0.00	0.00	8.00	5.00
	Total	2.4	16.61	21.00	25.31

COORPORATE ENVIRONMENT RESPONSIBILITY

S. No.	Project activity	Activities	Annual Budget proposed by Proponent (in lacs)	Remarks
1	Health	Free Distribution of medicines, health check-up, Sanitizer, gloves and Mask Installation of hand pumps.	3.63	
2	Drinking water facility	Drinking water facility in nearby village and panchayat	2.0	
2	Electrification	Solar Lamp distribution & Solar street light installation in the 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	
5	Rain water Harvesting structure	Construction of Rain water harvesting structure in the primary School nearby village.	0.00	
6	Protective Wall	Construction of Protective wall on one side of the project site for not disturbing the nearby agricultural land.	1.00	
	Total		6.63	

BUDGET FOR SURVILIENCE

S. No.	Particulars	Budget proposed by Proponent (in lacs)		Budget proposed by Proponent (in lacs)	
		Capital	Recurring (in lacs)	Capital	Recurring (in lacs)
1	Transport Permit	0.00	0.00	2.00	0.00
2	CCTV Camera	0.00	0.00	1.00	0.10
3	Weight Bridge	0.00	0.00	10.00	1.00
4	Personal Computer with power backup	0.00	0.00	0.50	0.05
5	Mobile Application Barcode scanner	0.00	0.00	0.50	0.05
6	Radio Frequency Identification Tag (RFID) and GPS	0.00	0.00	1.00	0.10
7	Annual Audit of lease	0.00	0.00	0.00	0.70
8	Security Guard	0.00	0.00	0.00	0.80
	Total	0.00	0.00	15.00	2.80

GENERAL PUBLIC HEARING CONCERNS

S. No.	Usual concerns expressed by public during proceedings	(Yes/No)
1	Proper demarcation of mining block/mining depth to be maintained	-
2	Prevention of illegal mining	---
3	EMP cost to be implemented practically	---
4	CER/CSR Activities for social upliftment	Yes
5	RBM material to locals on concessional rates	Yes
6	Manual mining & Employment to the local unemployed youth	Yes
7	Display of contact details of concerned authorities for enabling locals to report illegal mining or violation of EC conditions	---
8	Pollution, land degradation, loss of water body and rivulets/ soil erosion	-
9	Loss of land, unemployment and environmental concerns	yes
10	Impact on social life and Horticultural/pasturelands	-
11	Money generated should be utilized at panchayat level	Yes
12	Ban on mining activities at the night	-
13	Installation of solar lights	-
14	Haulage route maintenance	-
15	Proper plantation of the nearby area	-
16	Mining should be carried out in scientific Manner	Yes
17	Drinking water and Irrigation canals may be saved	-
18	Embankments of the Mining Block should be protected	Yes
19	Land suited along the bank of Chenab river may be protected	Yes
20	Title of land from Revenue Department should be demarcated before the auction of Mining Block	-
21	People and panchayat members of the concerned area would be consulted before tendering process	-
22	Embankments of Nallah be protected	Yes
23	Protection wall should be constructed to protect the agriculture land from intrusion of wild animals	Yes

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	-	-	As per latest available Google image of 04/2020
2	Bridge with midstream piers, if any, located within mining area/ within 500	No	No	-	-	

	mts. from the ends of mining block.					
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
8	Active water channels, if any	Yes	Yes	-	-	Active water channel needs

	crossing the mining block.					to be excluded
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 from the ends of mining block.	No	No	-	-	
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) The project had earlier been discussed during 10th meeting held on to 06/08/2020 during which it was observed that the mineral block No. 22, 23 and 24 were located within 500 meters distance from each other and therefore, in order to access the cumulative impact of all the three projects on the local environmental settings, the Committee unanimously agreed to treat it as a cluster situation although falling in member category B1 and the Committee desired joint EIA, EMP, CER, and public hearing for the three mining blocks and therefore, recommended the Terms of Reference for the three projects.
- b) Budget for surveillance equipment has not been provided and the Committee has accordingly recommended it as per budget in identical projects.
- c) The committee observed that the PP has proposed the haulage route through the active water channel, adequate measures and budget needs to be provided for laying of hume pipes and other protection measures.
- d) The JKEAC desired that the PP should fulfil the commitments made to the public during Public Hearing which includes construction of protection wall to safeguard the agriculture lands adjacent to the mining block.
- e) The compliance to specific TOR condition relating to photographs of display screen displaying the date of collection of data is missing in EIA report and therefore needs to be complied with in letter and spirit.
- f) The conditions of NOC of stockholder department need to be adhered to in letter and spirit.
- g) Mining depth be restricted to max.1m in aggregate in view of non-availability of replenishment data in the DSRs formulated by the G&M Dept.

h) In absence of actual measurements, a nominal Bulk density of **2.0** be adopted.

RECOMMENDATION OF THE COMMITTEE

In view of the above deliberations and insight gained during the above cited appraisal process, the Committee recommended the case for grant of Environmental Clearance subject to: -

- a) Standard and Specific Conditions as per **Annexure B** to these Minutes of Meeting.
- b) Revision of the mining plan and its *denovo* approval by the competent authority prior to grant of EC or as decided by JKEIAA.
- c) Budget for surveillance equipment has not been provided and the Committee has accordingly recommended it as per budget in identical projects.
- d) Revision of EMP Budget as suggested in the remark's column of EMP /CER table above.
- e) Mining depth of max.1m in aggregate in view of non-availability of replenishment data in the DSRs formulated by the G&M Dept.
- f) Maximum targeted mineral production of **89160** MT.
- g) Condition the geographical coordinates as per LoI are mentioned in the EC letter by JKEIAA
- h) Strict adherence to the terms and conditions of the NOCs of the stockholder departments which needs to be monitored by the enforcement agencies and concerned department.**
- i) Specific measures to be undertaken to mitigate the impact of mining activity viz laying of hume pipes and providing the protection wall to safeguard the agriculture lands adjacent to the mining block.
- j) No JCBs/ Excavators/ Bulldozers to be used in mining and no water course to be disturbed while transporting minor minerals.
- k) Validity of only three years from the date of commencement of the mining operations duly certified by the District Mineral Officer concerned with intimation to the JKEIAA and JKPCB in view of non-availability of replenishment data

AGENDA ITEM NO: 05

Title of case:	Grant of Environmental Clearance (EC) for RBM (River Bed Mineral) Minor Mineral Block Mining Project, Area of 7.54 ha., Block- 24, at Chenab River downstream of its confluence with Jerri Nallah (Near Jerri Bridge) Village: - Pandhal & Jeeri Tehsil & District-Reasi, State-Jammu & Kashmir favoring Umesh kumar S/O Shiv Nariyan Sharma R/O Saroop Nagar, Ludhiana, Ludhiana, Punjab-141001 umesh.kumar.ec1@gmail.com
Project type (whether mining lease/STP/ Quarry license/brick earth)	Mining Lease
Category(B1/B2)	B1
Proposal no:	SIA/JK/MIN/54791/2020
File no:	SEAC/JK/20/199
Consultant with validity	P and M Solution 10/12/2022
Presenter of consultant:	Manas Vyas
Project proponent / representative of Project proponent:	Mr. Umesh Kumar

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	7.54	257.64	338.05	4.82	16.90	6.76

Mine Closure plan proposed (in lacs)	Mining depth proposed (mts.)	Haulage Route (Kms)	Bulk density proposed by proponent in PFR/EIA	Cluster situation (Yes/No)
1500	1.00	0.81	2.00	Yes

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
27.03.2020	15/04/2021	31/08/2021	30/04/2020	17/08/2020

G.O 76JK-FST of 2020 dated 29/07/2021 implemented by JKEIAA for the project on	Previous Project proponent	Baseline data Collection by (previous) project proponent as the case may be	Public Hearing held on	Case Discussed by JKEAC earlier on	Area reduced by G&M Dept.
NA	NA	-	29-03-2021	06/08/2020	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	
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 mining depth, closure plan, surface plan, targeted mineral production, mining methodology etc.
4	District Survey Report	Formulated not as per guidelines	Needs revision for including replenishment data etc.
5	(Environmental Management Plan/ Corporate Environmental Responsibility (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
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1	Irrigation Dept.	Issued	
2	Flood Control Dept.	Issued Conditionally	
3	Fisheries Dept.	Issued Conditionally	
4	Forest Dept.	Issued as non-forest land	
5	Wildlife Protection Dept	Not issued	
6	Pollution Control Board	Not issued	
7	Revenue Dept.	Not issued	
8	PHE (Jalshakti) Dept.	Issued Conditionally	
10	Soil and Water Conservation dept.	---	

ENVIRONMENTAL MANAGEMENT PLAN

S. No	Proposed actions	Budget proposed by Proponent (in lacs)		Remarks/ Budget recommended by Committee (in lacs)	
		Capital	Recurring	Capital	Recurring
1	Green belt development	0.75	1.20	5.50	4.00
2	Haulage route maintenance	4.07	1.6	5.50	2.00
3.	Env. Awareness programme	0.00	0.00	0.50	0.50
4	Pollution Monitoring	0.00	5.00	3.00	5.00
5	Pollution control/ water sprinkling/Dust suppression	0.00	4.5	2.00	4.5
6	Solid waste management	0.00	0.00	0.00	0.00
7.	Occupational Health & Safety of mine workers	0.00	4.6	3.00	4.50
8	Laying of Hume pipes	0.00	0.00	0.00	0.00
	Total	4.82	16.90	19.50	20.5

COORPORATE ENVIRONMENT RESPONSIBILITY

S. No.	Project activity	Activities	Annual Budget proposed by Proponent (in lacs)	Remarks
1	Health	Free Distribution of medicines, health check-up, Sanitizer, gloves and Mask Installation of hand pumps.	3.76	
2	Drinking water facility	Drinking water facility in nearby village and panchayat.	2.0	
2	Electrification	Solar Lamp distribution & Solar street light installation in the 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	

5	Rain water Harvesting structure	Construction of Rain water harvesting structure in the primary School nearby village.	0.00	
6	Protective Wall	Construction of Protective wall on one side of the project site for not disturbing the nearby agricultural land.	1.00	
	Total		6.76	

BUDGET FOR SURVILIENCE

S. No.	Particulars	Budget proposed by Proponent (in lacs)		Budget proposed by Proponent (in lacs)	
		Capital	Recurring (in lacs)	Capital	Recurring (in lacs)
1	Transport Permit	0.00	0.00	2.00	0.00
2	CCTV Camera	0.00	0.00	1.00	0.10
3	Weight Bridge	0.00	0.00	10.00	1.00
4	Personal Computer with power backup	0.00	0.00	0.50	0.05
5	Mobile Application Barcode scanner	0.00	0.00	0.50	0.05
6	Radio Frequency Identification Tag (RFID) and GPS	0.00	0.00	1.00	0.10
7	Annual Audit of lease	0.00	0.00	0.00	0.70
8	Security Guard	0.00	0.00	0.00	0.80
	Total	0.00	0.00	15.00	2.80

GENERAL PUBLIC HEARING CONCERNS

S. No.	Usual concerns expressed by public during proceedings	(Yes/No)
1	Proper demarcation of mining block/mining depth to be maintained	-
2	Prevention of illegal mining	---
3	EMP cost to be implemented practically	---
4	CER/CSR Activities for social upliftment	Yes
5	RBM material to locals on concessional rates	Yes
6	Manual mining & Employment to the local unemployed youth	Yes
7	Display of contact details of concerned authorities for enabling locals to report illegal mining or violation of EC conditions	---
8	Pollution, land degradation, loss of water body and rivulets/ soil erosion	-
9	Loss of land, unemployment and environmental concerns	yes
10	Impact on social life and Horticultural/pasturelands	-
11	Money generated should be utilized at panchayat level	Yes
12	Ban on mining activities at the night	-
13	Installation of solar lights	-
14	Haulage route maintenance	-
15	Proper plantation of the nearby area	-
16	Mining should be carried out in scientific Manner	Yes
17	Drinking water and Irrigation canals may be saved	-
18	Embankments of the Mining Block should be protected	Yes
19	Land suited along the bank of Chenab river / Nallah may be protected	Yes
20	Title of land from Revenue Department should be demarcated before the auction of Mining Block	-

21	People and panchayat members of the concerned area would be consulted before tendering process	-
22	Embankments of Nallah be protected	Yes
23	Protection wall should be constructed to protect the agriculture land from intrusion of wild animals	Yes

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.	Yes	Yes	-	-	As per latest available google image of 04/2020
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
8	Active water channels, if any crossing the mining block.	Yes	Yes	-	-	Active water channel needs to be excluded
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 from the ends of mining block.	No	No	-	-	
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) The project had earlier been discussed during 10th meeting held on to 06/08/2020 during which it was observed that the mineral block No. 22, 23 and 24 were located within 500 meters distance from each other and therefore, in order to access the cumulative impact of all the three projects on the local environmental settings, the Committee unanimously agreed to treat it as a cluster situation although falling in member category B1 and the Committee desired joint EIA, EMP, CER and public hearing for the three mining blocks and therefore, recommended the Terms of Reference for the three projects.
- b) Illegal mining activity detected in the mining block as per features on Google image of 04/2020 needs clarification from the Multi Dept. District level Task Force (MLDTF) Cell which is awaited or any other designated multi-departmental Committee as recommended by the JKEIAA.
- c) The NOCs from Revenue & wildlife are not submitted by the PP.
- d) The NOC from fisheries department issue concern that no collateral damage to the environment, ecosystem, hydrobiology and ichthyofauna at the nallah / river downstream/upstream.
- e) Budget for surveillance equipment has not been provided and the Committee has accordingly recommended it as per budget in identical projects.
- f) The compliance to specific TOR condition relating to photographs of display screen displaying the date of collection of data missing in EIA report.
- g) The conditions of NOC of stakeholder department need to be adhered to in letter and spirit.
- h) In view of large area under active water channel, the mineral production needs to be reduced accordingly.
- i) Mining depth be restricted to max.1m in aggregate in view of non-availability of replenishment data in the DSRs formulated by the G&M Dept.
- j) In absence of actual measurements, a nominal Bulk density of **2.0** be adopted.

RECOMMENDATION OF THE COMMITTEE

In view of the above deliberations and insight gained during the above cited appraisal process, the Committee recommended the case for grant of Environmental Clearance subject to: -

- a) Standard and Specific Conditions as per **Annexure B** to these Minutes of Meeting.
- b) Explicit report from the Multi Dept. District level Task Force (MLDTF) Cell or any other designated multi-departmental Committee which is awaited to the effect that the PP is not involved in illegal mining /mining activity, prior to grant of EC or within time frame as decided by JKEIAA.
- c) Budget for surveillance equipment has not been provided and the Committee has accordingly recommended it as per budget in identical projects.
- d) Necessary revision of the documents as per deliberations recorded herein above.
- e) Revision of the mining plan after excluding the active water channel and its *denovo* approval by the competent authority prior to grant of EC or as decided by JKEIAA.
- f) Revision of EMP Budget as suggested in the remark's column of EMP table above.
- g) Mining depth of max.1m in aggregate in view of non-availability of replenishment data in the DSRs formulated by the G&M Dept.
- h) Maximum targeted mineral production of **72000 MT**.
- i) Condition the revised geographical coordinates as per LoI issued by G&M Dept. are mentioned in the EC letter by JKEIAA

- j) **Strict adherence to the terms and conditions of the NOCs of the stockholder departments which needs to be monitored by the enforcement agencies and concerned department.**
- k) No JCBs/ Excavators/ Bulldozers to be used in mining and no water course to be disturbed while transporting minor minerals.
- l) Validity of only three years from the date of commencement of the mining operations duly certified by the District Mineral Officer concerned with intimation to the JKEIAA and JKPCB in view of non-availability of replenishment data.

AGENDA ITEM NO: 06

Title of case:	Grant of Environmental Clearance (EC) for RBM (River Bed Mineral) Minor Mineral Block Mining Project, Area of 6.31 ha., Block- 23, at Johad khad Plan II Village Johad, Tehsil & District-Kathua, State-Jammu & Kashmir favoring M/S Sai Mines (Shri Karanvir Singh S/O Surinder Singh 01, Lane No.3, Shaheed Udham Singh Nagar Pathankot, Punjab).
Project type (whether mining lease/STP/ Quarry license/brick earth)	Mining Lease
Category(B1/B2)	B1
Proposal no:	SIA/JK/MIN/59417/2020
File no:	SEAC/JK/20/356
Consultant with validity	P and M Solution 10/12/2022
Presenter of consultant:	Manas Vyas
Project proponent / representative of Project proponent:	M/S Sai Mines

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	6.31	102.68	183.08	3.90	9.15	3.66

Mine Closure plan proposed (in lacs)	Mining depth proposed (mts.)	Haulage Route (Kms)	Bulk density proposed by proponent in PFR/EIA	Cluster situation (Yes/No)
1.75	1.00	0.65	2.00	No

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
24.07.2020	15/04/2021	31/08/2021	26/11/2020	18/01/2021

G.O 76JK-FST of 2020 dated 29/07/2021 implemented by JKEIAA for the project on	Previous Project proponent	Baseline data Collection by (previous) project proponent as the case may be	Public Hearing held on	Case Discussed by JKEAC earlier on	Area reduced by G&M Dept.
NA	NA	02/07/2021	02-07-2021	09/01/2021	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	
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 mining depth, closure plan, surface plan, targeted mineral production, mining methodology etc.
4	District Survey Report	Formulated not as per guidelines	Needs revision for including replenishment data etc.
5	(Environmental Management Plan/ Corporate Environmental Responsibility (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.	Issued as non-forest land	
5	Wildlife Protection Dept	Not issued	
6	Pollution Control Board	Not issued	
7	Revenue Dept.	Not issued	
8	PHE (Jalshakti) Dept.	Issued Conditionally	
10	Soil and Water Conservation dept.	---	

ENVIRONMENTAL MANAGEMENT PLAN

S. No	Proposed actions	Budget proposed by Proponent (in lacs)		Remarks/ Budget recommended by Committee (in lacs)	
		Capital	Recurring	Capital	Recurring
1	Green belt development	0.65	1.00	5.00	4.50
2	Haulage route maintenance	3.25	1.62	6.00	4.00
3.	Env. Awareness programme	0.00	0.00	1.00	0.50
4	Pollution Monitoring	0.00	2.30	1.00	1.50

5	Pollution control/ water sprinkling/Dust suppression	0.00	2.23	2.00	3.00
6	Solid waste management	0.00	0.00	1.00	0.50
7.	Occupational Health & Safety of mine workers	0.00	2.00	4.00	2.00
8	Laying of Hume pipes	0.00	0.00	0.00	0.00
	Total	3.90	9.15	20.00	16.00

COORPORATE ENVIRONMENT RESPONSIBILITY

S. No.	Project activity	Activities	Annual Budget proposed by Proponent (in lacs)	Remarks
1	Health	Free Distribution of medicines, health check-up, Sanitizer, gloves and Mask Installation of hand pumps.	2.16	
2	Drinking water facility	Drinking water facility in nearby village and panchayat	0.00	
2	Electrification	Solar Lamp distribution & Solar street light installation in the village.	0.00	
3	Sanitation	Construction of ladies' toilets in the village.	1.5	
4	Education	Distribution of school bags & books in nearby Primary School Education Grants to girl child to check drop outs in schools.	0.00	
5	Rain water Harvesting structure	Construction of Rain water harvesting structure in the primary School nearby village.	0.00	
	Total		3.66	

BUDGET FOR SURVILIENCE

S. No.	Particulars	Budget proposed by Proponent (in lacs)		Budget proposed by Proponent (in lacs)	
		Capital	Recurring (in lacs)	Capital	Recurring (in lacs)
1	Transport Permit	0.00	0.00	2.00	0.00
2	CCTV Camera	0.00	0.00	1.00	0.10
3	Weight Bridge	0.00	0.00	10.00	1.00
4	Personal Computer with power backup	0.00	0.00	0.50	0.05
5	Mobile Application Barcode scanner	0.00	0.00	0.50	0.05
6	Radio Frequency Identification Tag (RFID) and GPS	0.00	0.00	1.00	0.10
7	Annual Audit of lease	0.00	0.00	0.00	0.70
8	Security Guard	0.00	0.00	0.00	0.80

	Total	0.00	0.00	15.00	2.80
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GENERAL PUBLIC HEARING CONCERNS

S. No.	Usual concerns expressed by public during proceedings	(Yes/No)
1	Proper demarcation of mining block/mining depth to be maintained	-
2	Prevention of illegal mining	---
3	EMP cost to be implemented practically	---
4	CER/CSR Activities for social upliftment	Yes
5	RBM material to locals on concessional rates	Yes
6	Manual mining & Employment to the local unemployed youth	Yes
7	Display of contact details of concerned authorities for enabling locals to report illegal mining or violation of EC conditions	---
8	Pollution, land degradation, loss of water body and rivulets/ soil erosion	-
9	Loss of land, unemployment and environmental concerns	-
10	Impact on social life and Horticultural/pasturelands	-
11	Money generated should be utilized at panchayat level	-
12	Ban on mining activities at the night	-
13	Installation of solar lights	-
14	Haulage route maintenance	Yes
15	Proper plantation of the nearby area	-
16	Mining should be carried out in scientific Manner	-
17	Drinking water and Irrigation canals may be saved	-
18	Embankments of the Mining Block should be protected	-
19	Land suited along the bank of Nallah may be protected / saved	Yes
20	Title of land from Revenue Department should be demarcated before the auction of Mining Block	-
21	People and panchayat members of the concerned area would be consulted before tendering process	-
23	Protection wall should be constructed to protect the agriculture land from intrusion of wild animals	-
24	Access / Approach road passing through the proposed block leading to different villages across the Khad should not be closed.	Yes

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	-	-	As per latest available google image of 06/2021
2	Bridge with midstream piers, if any, located within mining area/ within 500 mts. from the	No	Yes	430	-	

	ends of mining block.					
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
8	Active water channels, if any	Yes	Yes	-	-	Active water channel needs

	crossing the mining block.					to be excluded
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 from the ends of mining block.	No	No	-	-	
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) The project had earlier been discussed during 23rd meeting held on to 09/01/2021 during which it was observed that the mining block is fit for TORs.
- b) As per features seen on the Google earth Image of 06/2021 a bridge with midstream piers was observed at a distance of 430 mts. from the mining Block
- c) The NOC of Irrigation and Flood control division says that title of the land is to be verified from the Revenue Record by the Revenue authorities.
- d) The Committee also observed an under-construction bridge in the area of concern and desired Project Proponent to consider reducing the size of the mining block to maintain safe distance from the bridges.
- e) Budget for surveillance equipment has not been provided and the Committee has accordingly recommended it as per budget in identical projects.
- f) The compliance to specific TOR condition relating to photographs of display screen displaying the date of collection of data missing in EIA report. This needs to be complied with.
- g) On perusal of Public Hearing report, it was observed that some people had raised concerns regarding disruption of traditional paths, connecting the villages located on the two bank of the nallah, traversing the bed of the nallah due of excavation and desired that PP be directed to allow free movement across the mining blocks.
- h) Project Proponent shall address the points raised in the public hearing. Project Proponent, shall revise the EIA/EMP to provide budgetary provisions for addressing the concerns of local people raised during Public Hearing.

- i) The conditions mentioned in the NOCs of stakeholder Departments need to be adhered to in letter and spirit.
- j) Mining depth be restricted to max.1m in aggregate in view of non-availability of replenishment data in the DSRs formulated by the G&M Dept.

RECOMMENDATION OF THE COMMITTEE

In view of the above deliberations / observations made by the Committee herein above, the Expert Appraisal Committee recommended that the project be rejected in the present form. In the meantime, the project proponent may, if he so desires, undertake following actions for reconsideration of the case and submit the following documents: -

- a) To resize the mining block for maintaining safe distance of 500 mts. from the Bridge.
- b) To obtain title verification of the land under mining block in accordance with NOC from I&FC Dept.
- c) Revision of the mining plan and its *denovo* approval by the competent authority.
- d) To address the concerns of Public as pointed out in the Public Hearing report.
- e) Budget for surveillance equipment has not been provided and the Committee has accordingly recommended it as per budget in identical projects.
- f) Revision of EMP Budget as suggested in the remark’s column of EMP table above.
- g) Mining depth of max 1m in aggregate in view of non-availability of replenishment data in the DSRs formulated by the G&M Dept.
- h) Compliance of specific TOR condition relating to photographs of display screen displaying the date of collection of data missing in EIA report which needs to be complied with.

OBSERVATIONS ABOUT CONDUCT OF CONSULTANTS

(Excellent/Good /Average/Poor)

(SCALE: 9 to 10= Excellent / 7-8=Good /5-6=Average / 4-5= below average / less than 3= Poor)

S. No.	Component	P and M Solutions
1	Submission of the documents	8
2	Site Appreciation Note, kml /kmz file, site photo and site videos and PowerPoint presentation	7
3	Presentation of factual details of case(s)	8
4	Field knowledge of the case(s)	6
5	Formulation of PFR, EMP, CER etc.	6
6	Overall professional conduct during proceedings	7

The minutes were formulated online by the Expert Appraisal Committee immediately after the deliberations and the same are hereby issued with approval of the esteemed Chairman.

SECRETARY
JKUT level Expert Appraisal Committee

No: EAC/JK/20/ 9589-601

Dated:08.10.2021.

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/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. 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. 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.
4. 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.
5. Details of Gradient of riverbed and 3-D view draped on the satellite image
6. Details of excavation schedule & sequential mining plan with a maximum mine depth of 1 mtr.
7. 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.
8. Impact on mining activity on the existing land use in the study area.
9. Impact of mining on aquatic life.

10. 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.
11. 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.
12. 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
13. 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.
14. The Photography and videography of the mining block shall be part of the Terms of Reference.
15. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius
16. 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.
17. Dust suppression measures should be prescribed in the EIA/EMP with adequate budget
18. Post project monitoring plan should be included in the study.
19. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.
20. 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.
21. The data displayed on air quality monitoring stations should be captured with digital camera displaying the date on the photograph so captured and same should be submitted in support of the date-wise data sheets. These digital photographs should be submitted in soft as well as appended with the EIA report. In case, the consultant uses manual system to evacuate the PM10 level on replacing 8"x10" size filter paper after 8hr duration, the photographs of its timer display which reveals the actual operating time of machine, should be included in the EIA Report.
22. 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.
23. Mining shall be proposed manually minimally supported by semi-mechanized methods excluding heavy machinery like JBC or L&T hydraulic excavators etc.
24. The prescribed TORs would be valid for a period of four years for submission of the EIA/EMP reports, as per the S.O. No. 751(E) dated 17th of Feb., 2020.

ANNEXURE-B

**STANDARD AND SPECIFIC CONDITIONS FOR GRANT OF ENVIRONMENTAL
CLEARANCE WITH RESPECT TO RIVER BED MINING PROJECTS ON LEASE
BASIS**

STANDARD CONDITIONS:-

- a) Statutory compliance

- i) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court of J&K, Hon'ble NGT and any other Court of competent jurisdiction, **as may be applicable.**
- ii) The Project Proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- iii) The UT Government of J&K shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- iv) This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, **if applicable to the Project.**
- v) This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, **if applicable to the Project.**
- vi) Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/COMMITTEE.
- vii) The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- viii) The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- ix) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IAJI (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- x) The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- xi) A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- xii) State Pollution Control Board/COMMITTEE shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- xiii) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area.
- xiv) The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/COMMITTEE and web site of

the Ministry of Environment, Forest and Climate Change (www.environmentclearance.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.

- xv) The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

b) Air quality monitoring and preservation

- (1) The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM 2.5, NO₂; CO and SO₂ etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PC/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- (2) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipment's/ machineries and preventive maintenance: Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

c) Water quality monitoring and preservation

- (1) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- (2) Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-

monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.

- (3) Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- (4) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The Project Proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
- (5) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IAJI (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- (6) Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.
- (7) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.

- (8) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/COMMITTEE.

d) Noise and vibration monitoring and prevention

- (1) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- (2) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- (3) The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

e) Mining plan

- (1) The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation **subject to changes recommended in the specific conditions herein below**. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management , O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
- (2) The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- (3) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes selfsustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.

f) Land reclamation

- (1) The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- (2) The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- (3) The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan. iv. The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ levelling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
- (4) The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.
- (5) Catch drains, settling tanks and ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintain properly.
- (6) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains,
- (7) The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain

the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.

g) Transportation

- (1) No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. *(In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated.)* All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
- (2) The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

h) Green Belt

- (1) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- (2) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.

- (3) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- (4) The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.
- (5) And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

i) Public hearing and human health issues

- (1) The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintain properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office and DGMS on half-yearly basis.
- (2) The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighbourhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.
- (3) The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic ChromiumFortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept

for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).

- (4) The Proponent shall maintain a record of performance indicators for workers which includes
 - a. there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9,
 - b. the Final Chest X-Ray compared with the base line X-Ray should not show any capacities,
 - c. At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1) Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age,
 - d. their hearing should not be affected. As a proof an Audiogram (first and last need to be presented),
 - e. they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement,
 - f. they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC annually along with details of the relief and compensation paid to workers having above indications.
- (5) The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- (6) Project Proponent shall make provision for the housing for workers/labors or shall construct labour camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- (7) The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing, if applicable, shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

j) Corporate Environment Responsibility (CER)

- (1) The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. III dated 30/09/2020 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner

and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.

- (2) Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEFCC and its concerned Regional Office.

k) Miscellaneous

- (1) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area and KML file for recording the base line data and closure time data (after three years) and submit a report to concerned Regional Office of the MoEFCC.
- (2) The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (3) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.
- (4) A separate ‘Environmental Management Cell’ with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.
- (5) The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data / information / monitoring reports.

SPECIFIC CONDITIONS: -

1	The Project Proponent must obtain NOCs from competent authority of all the concerned stake holder departments /Joint Inspection Report prior to grant of formal Environmental Clearance (EC). The EC shall be subject to strict compliance of conditions of the NOCs issued by the stake holder departments.
2	The cremation ground if any in the vicinity be properly demarcated and left undisturbed and its map showing geographical coordinates be submitted to JKEIAA before issuance of formal EC. Besides, map showing extraction route bypassing village settlements and agricultural/horticultural land as far as possible be submitted to the JKEIAA before formal grant of EC.
3	The maximum exploitation of the RBM from the mining block shall be as per approved mining plan or <u>as per revised mining plan to be approved by competent authority denovo</u> within the prescribed area and depth recommended by the JK Expert Appraisal Committee, as the case may be and <u>whichever is less</u> . Mining depth mentioned above the recommended depth by JKEAC, if mentioned anywhere in any of the submitted documents whether by mistake or otherwise, shall be treated as omitted.
4	A green belt shall be developed under close supervision of the local panchayat.

5	The river bed material shall be sold to the local population within radial distance of 2 kms from the mine site for residential construction purpose at 50% concessional rates.
6	The formal lease shall be granted only after the Project Proponent deposits the funds earmarked under EMP / CER in a separate account to be opened for the purpose and funds be utilized in coordination with DFO, Social Forestry Dept. and concerned Chief Medical Officer (CMO) under supervision of local Panchayat Head. The funds earmarked for CSR shall also be utilized in accordance with CSR Policy Rules.
7	All the provisions of Minor Mineral Rules sanctioned under SRO105 with all amendments with respect to pertinent provisions of the legal framework relating to progressive mine closure shall be complied by the Project Proponent.
8	This Environmental Clearance is subject to final outcome of any litigation pending before Hon'ble Supreme Court of India, Hon'ble High Court of Jammu & Kashmir, Hon'ble NGT, or any other Court of Law, if any, as may be applicable to this project.
9	This Environmental Clearance is without prejudice to the standing instructions /orders from the competent authorities in the MoEF&CC, GoI and the UT of J&K w.r.t river bed mining activity.
10	An inspection Committee comprising of Additional Dy. Commissioner, District Mineral Officer, representative of Pollution Control Board, Executive Engineer Irrigation & Flood Control Dept., Executive Engineer, PHE(Jalshakti) Dept. and District Fisheries Officer shall monitor the implementation of the EMP and also certify at the end of each monsoon, that sufficient replenishment of the minor mineral has taken place during monsoon and further mining in the mining block shall not adversely affect the hydrological and ecological settings in the area.
11	The Project Proponent shall take all precautionary measures during mining operations for conservation and protection of endangered fauna and flora in the area.
12	Masks and PPE shall be provided to the workers in view of COVID-19.
13	Social distancing norms and other standard operating procedures relating to COVID-19 shall be followed during mining activity.
14	The plan worked out and expenditure made under Occupational Health should be undertaken in consultation with the Local Health Institution/PHC/Sub-Centre for utilization for the health and welfare of the local workers involved in mining activity and villagers living in the close vicinity. Regular Medical checkups and free medicines shall be provided under the fund.
15	The Project Proponent must ensure that the biological clock of the villagers in the vicinity of the project is not disturbed by any unauthorized night operations and all measures must be taken for keeping the noise levels within prescribed levels.
16	Provision shall be kept for housing of the labour force, toilets, facilities for cooking, safe water, health care, crèche etc. for the labour force.
17	A final Mine closure Plan along with details of Corpus fund shall be communicated to the MoEF&CC in advance for approval.
18	The top soil in case of surface land mining shall be temporarily stored at the designated / appropriate site and concurrently used for land reclamation.
19	The mining operations shall be undertaken in a systematic manner so that it does not damage the aesthetic view of the area.

20	Adequate steps should be taken to check soil erosion and engineering structures shall be raised wherever required. The mining shall be restricted to 3/4 th 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.
21	The compliance report shall be submitted to the Regional Office of the MoEF&CC at Chandigarh with a copy to the Regulatory Authority.
22	The mining activity should in no case go beyond the area as mentioned in the Letter of Intent or Environmental clearance letter, whichever is less and a buffer area is maintained such that the slopes of adjoining area does not get disturbed.
23	All the provisions made and restrictions imposed as covered in the Minor Mineral Rules, shall be complied with, particularly regarding Environment Management Practices and its fund management.
24	The recommendations made in the District Survey Report on sustainable mining practices if any shall be complied.
25	The mining shall be done in bench form with maximum bench height within the mining depth as prescribed by the Expert Appraisal Committee
26	Mining should be initiated only after installation of signboards with demarcation pillars indicating the geo-coordinates of the plot as mentioned in the letter of intent, measurements (length /breadth) and should be laid in presence of the authorized official of the Geology & Mining Department. 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).The demarcation pillars site should mention the specific EC conditions and contact details of concerned authorities responsible for monitoring of compliance of EC conditions/district administration/Police at four corners of the mining block prominently on a large size durable display board for enabling the public to inform the authorities in case of violation of the EC conditions. The display board with details shall be maintained in perfect order throughout the period of lease/mining.
27	There should be no change in the method of excavation and quantity of minerals to be extracted.
28	The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers concerned for inspection.
29	The access to mining site should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for in accordance with standing guidelines issued by the Govt.
30	The Geology & Mining Department should use technology like Bar Coding, Information and Communications Technology (ICT), Web based and ICT enabled services, mobile SMS App etc. to account for weight of mineral being taken out of the plot and the number of trucks moving out with the mineral.
31	The PP should ensure no agriculture land in the area is used for any storage of sand or gets damaged due to any other transportation activity. Where ever, damages to agricultural land, assets or human or bovine life by way of plying of trollies and tippers etc. involved in transportation of minor mineral is reported, the Project Proponent shall

	pay adequate compensation with penalty to the effected persons as to be fixed up by the competent authority.
32	Waste generated will be collected on regular basis and will be disposed as per the Municipal Solid Waste Management (Management & Handling) Rule 2000 and its subsequent amendments.
33	Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.
34	The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded.
35	Overloading of trucks and trolleys will be avoided.
36	All the instructions from authorities representing various government departments having stakes shall be complied with during the mining operations.
37	Haul road will be kept wide, compact and water spraying will be done. It shall be properly maintained by the PP and restored to original position after mining. Axle load on the roads should not exceed the prescribed load as per IRC.
38	Restricted working hours. Mining operation has to be carried out between 6 am to 7 pm. During day light. Mining operations shall not be allowed at night.
39	No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope. Mining activity shall not be avoided in rainy season
40	Vehicles used for transportation of material are to be permitted only with fitness and PUC Certificates.
41	There shall be no extraction of stone / boulder in landslide prone areas.
42	Adequate facility for drinking water and toilets should be provided for the workers.
43	There should be controlled clearance of overground vegetation to be undertaken.
44	Transport of mineral will not be done through villages / habitations and any private productive or waste land.
45	Deep drilled handpump with sufficient funding provision should be earmarked for providing drinking facility to the labour force.
46	Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted.
47	The PP shall be responsible for enforcement of COVID-19 standard operating procedures and guidelines with respect to safety of workers involved in the mining activity.
48	Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC relevant guidelines if any in this regard.
49	Health and safety of workers should be taken care of. They should also be provided training in safety and health care aspects.
50	Junction at takeoff point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.
51	No stacking shall be allowed on road side along National Highway or any public road.
52	Concealing of any information/data of submission of wrong/fabricated information by the Project Proponent and failure to comply with any of the above conditions may lead to withdrawal of the EC and attract action under the provisions of EP Act, 1986.

53	Mining shall be done manually minimally supported by semi-mechanized methods. Heavy machinery like JCBs, Excavators/L&T hydraulic excavators etc. should not be allowed. Emphasis should be given to employment of locally available labour force to address the socio-economic concerns of the locals.
54	The progressive mine closure shall be as per Rules in vogue. All actions relating to progressive mine closure shall be taken well in advance during the final year of mining so that the site is rehabilitated ecologically.
55	The reasonable concerns expressed by the local population during public hearing or otherwise shall be addressed by the Project Proponent. No blasting operations shall be allowed.
56	No mining activity shall be carried out in flowing water channel area within the mining block and adequate measures shall be taken to safeguard water quality and aquatic life including fisheries if available in the same.
57	The PP shall earmark funds strictly as per the agreed Environmental Management Plan to be spent on environmental monitoring, dust sprinkling, green belt development, rehabilitation of mined out area and landscaping/regressing and haulage route maintenance. The detailed updated plan shall be submitted to JKEIAA as per above deliberations before grant of formal EC, if desired by the JKEAC. Further, the CSR funds shall be earmarked and utilized as per CSR Rules.
58	The hydraulic structures/embankments /protection bunds shall not be disturbed /damaged during mining operations.
59	The alignment of the bank of the river and water shall not be changed in any case.
60	The water way of the Nalla shall not be restricted.
61	The applicant is bound to abide by the J&K Water Resources (Regulation and Management) Act and Rules of 2011 and J&K Fisheries Act, 2016 and all other relevant Acts and Rules thereof.
62	The EC is subject to condition that the mining block is located on state land exclusively in river bed without any encumbrances of any sort.
63	Under CSR, within 2 km radial distance, activities like regular health check-up of local villagers once a week shall be undertaken with free medicines. Safe drinking water facility by way of renovation of existing tanks/wells, digging of new tube wells and installation of water filters shall be undertaken. Skill development trainings shall be organized for unemployed local youth. Further, construction of toilets in schools, solar street lighting, free distribution of books, note books, N95 masks, hand sanitizers and school bags among students within 2 km radius from the mine area shall be undertaken. Under EMP, with 2 kms radial distance from mine area; air, water, soil, noise pollution monitoring on half yearly basis, black topping of roads passing through villages and maintenance of haulage /extraction routes, water sprinkling, PPE to mine workers, bearing of school/college fee and allied costs on education of children of mine workers, bearing of all costs on ailments/healthcare of mine workers, creation of green belt by way of raising and maintenance of 2500 trees per hectare on land identified by DFO Social Forestry concerned in consultation with village panchayat during the period of mining, shall be undertaken.
64	The JKEIAA reserves the right to impose any other condition in the EC at any time during the period of mining lease. The JKEIAA reserves the right to revoke the EC in case any of the environmental clearance conditions are violated during the mining activity. Mere grant of Environmental Clearance does not entitle the Project Proponent for grant of mining lease unless he obtains all other clearances as required under other provisions of law.

65	The EC is subject to condition that the Project proponent shall not change the water course of the river and no mining activity shall be carried out in active channel area, if any in the mining block.
66	Wherever the PP has to transport the mined out material across shallow water creeks found inside the mining block, he shall lay Hume pipes of appropriate sizes for the purpose so as not to disturb the natural flow of water.
67	On the request of project proponent, the competent authority shall issue necessary corrigendum to the approved mining plan w.r.t mining depth and area excluding the active water channel /green patch/ flood control structures/maintenance of safe distance to bridges/hydraulic structures and quantification of the targeted mineral, if and wherever, recommended by the Expert Appraisal Committee.
68	The project proponent shall undertake an environmental audit at least once a year by a reputed third-party entity and report of such audit shall be placed in public domain.
69	To ensure that irrigation inlets are not left high and dry due to mining and resultant degradation of bed, the Project Proponent also must construct well-designed cut-off walls, stretching bank to bank, having depth 1.5 times the maximum scour depth below the bed level, both upstream and downstream, maintaining prescribed distance from irrigation inlet/s as per guidelines.
70	The District Mineral Officer shall monitor the replenishment of the mined-out areas, traffic management, levels of production, river bank erosion, exit point of the site and instruct the Project proponent for initiating measures for mitigating environmental concerns.
71	The PP shall not sub-let the mining block to any third party without written approval from the JKEIAA
72	After ceasing the mining operations, the project proponent shall undertake re-grassing of the mining lease area and any other area which may have been disturbed due to mining activities and restore the area to a condition fit for growth of flora, fauna and fodder as per rules in vogue.
73	The Project Proponent shall strictly adhere to the Sand Mining Guidelines of 2016 and Enforcement and Monitoring Guidelines of 2020 issued by the Ministry of Environment, Forest & Climate Change, GoI
74	An appeal against the EC shall lie with the Hon'ble NGT, if preferred within 30 days as prescribed under Section 16 of the NGT Act, 2010.
75	In the event any conflict in interpretation of Standard /General Conditions vis-a vis Specific Conditions, the Specific Conditions shall prevail.