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 Ministry of Environment, Forest & Climate Change, Govt. of India.  
**J&K UT LEVEL EXPERT APPRAISAL COMMITTEE (JKEAC)**  
 Department of Ecology, Environment & Remote Sensing  
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**MINUTES OF MEETING**

**MINUTES OF 110<sup>TH</sup> MEETING OF THE JK EXPERT APPRAISAL COMMITTEE HELD ON 18<sup>TH</sup> OF MAY, 2023 VIA VIDEO CONFERENCING**

In pursuance to Meeting Notice issued vide No: EAC/JK/23/14882-14899 Dated: 11/05/2023 and subsequent addendum issued vide No. No: EAC/JK/23/14900-14915 dated 12/05/2023, the 110<sup>th</sup> Meeting of JK Level Expert Appraisal Committee (JKEAC) was held on 18<sup>th</sup> of May, 2023 at 11:00 A.M. via video Conferencing. The following attended the meeting:-

No.	Name	Designation
1	Mr. S.C. Sharma, IFS(Rtd.)	Chairman
2	Mr. M.A Tak, IFS(Rtd.)	Member
3	Engineer B.B. Sharma	Member
4	Prof. Anil Kr. Raina	Member
5	Mr. A.R. Makroo	Member
6	Dr. G.M.Dar	Member
7	Shri J.N Sharma, JKPCC	Special invitee
8	Dr. Abdul Majeed Bhat	Special Invitee
9	Mr. Humayun Rashid	Secretary

The Secretary, JKEAC welcomed the Chairman, Members of the JK Expert Appraisal Committee, Shri JN Sharma, Environmental Engineer (Special invitee from JK Pollution Control Committee), Dr. Abdul Majeed Bhat, Geological Expert, the project proponents and the consultants.

The meeting proceeded as per following sequence: -

**AGENDA ITEM NO: 01**

Title of case:	Grant of Environmental Clearance (EC) for chemical Industry located at SIDCO Industries Growth Center, Phase-I, Tehsil/ District Samba, UT of Jammu & Kashmir for Expansion of API Manufacturing Industries Unit in favour of "M/S Indswift Laboratories Ltd".
Project type: (whether mining lease/STP/ Quarry license/brick earth/ Industry)	Synthetic organic chemical industry (Expansion)
Category (B1/B2)	B2 (Refer MoEF&CC OM S.O. 2859 (E) dated 16/07/2021)
Proposal no:	SIA/JK/IND2/204316/2021 // SIA/JK/IND2/152747/2020
File no:	SEAC/2018/64
Consultant with validity	M/S Eco Laboratories and Consultants Pvt Ltd. Valid till: 09/07/2021

Presenter of consultant:	Ms Jyoti Lakhi
Project proponent / representative of Project proponent:	Shri Arvind Mahajan

## CASE SUMMARY

Status	Category of the project	Project cost (in Cr.)	Spent so far (in Cr.)	Proposed for expansion (in Cr.)	EPM cost proposed (in lacs)		CER budget proposed (lacs)
					Capital	Recurring	
Expansion of existing plant	5 (f)-B	73.73	56.98	16.75	35.00	11.00	17.00

## COMPLIANCE REPORT OF EARLIER EC

Date of submission of application for grant of EC for expansion	Compliance Report of previous Environmental Clearance conditions	Date of site inspection by JKPC to verify Compliance of EC conditions	Submission date of compliance report
17/03/2021	Verified by JK Pollution Control Committee	17/07/2021	03/08/2021

## CONSENT STATUS FROM JK UT PCC

Date of renewal of Consent to Establish/Operate	Date of authorization under Rule6(2) of the Hazardous & other waste Management & Trans-boundary movement Rules, 2016
25/01/2021	25/01/2021

## **APPRAISAL PROCESS**

### **STATUS OF DOCUMENTATION**

S. No	Document	Status	Remarks of the Committee
1	Form 1/Form 2 as applicable	Submitted	Duly filled Form 2 need to be submitted in accordance with OM dated 20 April, 2018 issued by MoEF&CC, GoI, New Delhi
2	Pre-feasibility report (PFR)	Submitted	
3	Environmental Management Plan	Submitted	
4.	Compliance report of earlier EC conditions	Submitted	Verified by JK Pollution Control Committee
5	Corporate Environmental Responsibility Plan	Submitted	

### **LAND USE PLANNING DETAILS**

S. No	Details	Area
1	Total plot area (plot1+ plot 2)	30,000 sq. m (3 hectares)
2	Total covered area (plot1 + plot 2)	8,822.51 sq. m
3	Green area (plot1 + plot 2)	9,908.61 sq. m
4	Other area	11,268.88 sq. m

### **SOLID WASTE MANAGEMENT DETAILS**

<b>Solid waste Generation (Kg/month) (Existing)</b>	<b>Solid waste Generation (Kg/month) (Proposed)</b>	<b>Solid waste Generation (Kg/month) (Total)</b>	<b>Waste water generation (KLD) (Existing)</b>	<b>Waste water generation (KLD) (Proposed)</b>	<b>Waste water generation (KLD) (Total)</b>
50-60	100-110	150-160	85	34	119

## POWER REQUIREMENT DETAILS

Power Requirement (KW) (Existing)	Power Requirement (KW) (Proposed)	Power Requirement (KW) (Total)	Supplying Agency	No of Diesel Gen sets/capacity (KVA) (Existing)	No of Diesel Gen sets/capacity (KVA) (Proposed)
932.12	417.88	1350	PDD, JAMMU	02 NO. (500 & 1010 KVA)	01 No. (1010 KVA)

## WATER REQUIREMENT DETAILS

Fresh water demand (KLD) (Existing)	Fresh water demand (KLD) (Proposed)	Fresh water demand (KLD) (Total)	Source of fresh water
150	48	198	Borewell (1 No.)

## PROJECT DETAILS OF EXISTING UNIT AND PROPOSED EXPANSION

S. No	Description	Existing	Proposed	Total (After expansion)
1	Total plot area	3 hectares		
2	Total production	294.3 TPA	262.6 TPA	556.9 TPA
3	Fresh water demand	150 KLD	48 KLD	198 KLD
4	Waste water generated	85 KLD	34 KLD	119 KLD
5	ETP capacity MEE capacity STP capacity	66 KLD 48 KLD 15 KLD		
6	Power load	932.12 KW	417.88 KW	1350 KW
7	Project cost	56.98 CR. (spent so far)	16.75 CR.	73.73 CR.

## MANPOWER REQUIREMENT

S. No	Description	Existing	Proposed	Total (after expansion)
1	Manpower	331 persons		

### Expenditure on typical Environmental Protection Measures for (Expansion)

S. No	Environmental Protection Measures	Capital Cost (Rs in Lakhs)	Recurring Cost (Rs in Lakhs)	Remarks
1	Air pollution control	5	1.5	
2	Water pollution control measures	-	3	
3	Green belt development	-	1	
4	Solid & Hazardous waste management	20	3	
5	Environment monitoring & Management	-	1	
6	Health, Safety & Risk Assessment	-	1	
7	Miscellaneous	10	0.5	
	<b>Total</b>	<b>35.00</b>	<b>11.00</b>	

### Corporate Environmental Responsibility Activity proposed by the PP

S. No	Activities proposed by the Project Proponent	Timeline (After grant of EC)	Total Expenditure in 1 year (in lakhs)	Activities proposed by JKEAC
1	Maintenance of pond in village Diani Samba	2 Years	8.5	However, the JKEAC desired the PP to spend CER as per recommendations herein below in consultation with District Magistrate and local PRI
	<b>Total amount to be spent under CER</b>		<b>17.00</b>	

### DELIBERATIONS/SPECIFIC OBSERVATION(S) OF COMMITTEE:

- a) Earlier the expansion proposal had been considered in terms of MoEF & CC, Govt. of India Notification No. S.O. 1223(E) dated 27th March, 2020 read with latest Notification No. S.O. 2859(E) dated 16/07/2021 which read as:-  
*“All proposals for projects or activities in respect of Active Pharmaceutical Ingredients (API), received from 16th July, 2021 to 31st December, 2021, shall be appraised, as Category ‘B2’ projects, provided that any subsequent amendment or expansion or change in product mix, after the 31st December, 2021, shall be considered as per the provisions in force at that time.”*

The project had accordingly been discussed in the 80<sup>th</sup> meeting held on 29/12/2021 during which the Committee had asked the PP to submit compliance to the following observations:

- i. *Submission of compliance to General Condition No.5 under Air Quality Monitoring of the earlier EC.*
  - ii. *Solution for upgrading the existing air pollution control devices to match the future pollution load owing to expansion proposal.*
  - iii. *Amelioration of existing ETP to cater to the treatment of the increased quantity of waste water due to expansion of the existing facility.*
  - iv. *Updation of PFR with Clarification as to how the project proponent could expand the unit within the existing space of 3 Ha as there is already shortage of space for any expansion.*
  - v. *Upgradation of the existing ETP with the ZLD technology preferably Multi-effect evaporation system or MBR technology.*
  - vi. *PFR needs to be updated to provide solution for arresting the odour emanating from the unit which needs to be taken care of by suitable pollution control measures.*
  - vii. *Submission of Safety audit report from the UT Disaster Management Authority/Department which should cover entire gamut of protocols required under rules for such units.*
  - viii. *The Committee had also desired that the PP should submit material safety data sheets for each of the raw material to be stored in the premises of the unit.*
  - ix. *Submission of thumb rule for calculation of water as per designed criteria and the specification with design of all the APCDs and ETP for adequacy of the pollution control measures.*
  - x. *Submission of audited data to reflect the actual production achieved against the production capacity projected especially after the grant of Environmental Clearance for expansion by JKEIAA.*
  - xi. *Collection of the requisite base data afresh along with photographs in presence of PCCs Officers duly analyzed by some other reputed NABEL accredited laboratory with proven track record as the existing consultant was blacklisted by JKPC.*
  - xii. *Submission of compliance report of the consent conditions in case, the consent to operate has already been granted to the existing unit by the JK UT PCC.*
  - xiii. *The Committee also desired that the project proponent should obtain a certificate from the J&K Pollution Control Committee to the effect that further expansion of the pharmaceutical industry with introduction of the products proposed under the present expansion will not cause any future environmental implication in the area that would adversely impact the human and livestock health, agricultural activity, Air & water quality and livelihoods. The JKPC may also propose various mitigation measures that could be undertaken by the project proponent to address implications that may arise owing to such expansion.*
- b) On 26/12/2022, in the 103<sup>rd</sup> meeting, JKEAC had asked the consultant Dr. Simranjeet Kaur to present compliances to the observations made by JKEAC in the 80<sup>th</sup> JKEAC meeting.

- c) The consultant had presented following compliances at that point of time:-
- i. With respect to item i, Supra, the consultant had informed that Terma Cyclone has been installed on 5 TPH boiler so as to achieve SPM emission limit of 100 mg/Nm<sup>3</sup>. Shri JN Sharma, Environmental Engineer had suggested to go for additional two stage treatment for Air Control Pollution design and this had been agreed by the consultant and PP during deliberations.
  - ii. With respect to item ii, Supra the consultant had presented the test reports of stack emission of boiler & incinerator along with DG sets, conducted by JKPCC. She had further informed that ambient air monitoring, stack emissions from boiler & work zone monitoring (fugitive emissions) has also been conducted by NABL accredited laboratory viz. Eco Paryavaran Laboratories & Consultants Pvt. Ltd.. Shri JN Sharma had asked her if there was any solution planned for upgrading additional scrubber on the new process stake. In response, Dr. priyanka had presented the Line Diagram showing scrubber systems which, however, had not been found to be satisfactory and **she had been asked to revise the same.**
  - iii. With respect to item iii, Supra the PP had informed that it has been proposed to upgrade existing capacity of ETP from 66 KLD to 80 KLD and existing capacity of MEE from 48 KLD to 60 KLD for future expansion. **She had further informed that the Feasibility report for ETP of 80 KLD capacity and MEE of 60 KLD had been submitted to JKEIAA.**
  - iv. With respect to item iv, Supra the consultant had informed that PP plans to expand 02 buildings (civil) in plot-1 to cater the future expansion capacity of the project. Also, existing steel shed in plot-2 will be dismantled to act as green area of 9908.61 sq. m. so as to comply the condition of 33% green belt area, she had informed. **Copy of layout plan depicting proposed plant 02 building in plot 1 and shed which is to be demolished in plot-2 was presented.** However, JKEAC desired to examine the unit on Google Image and found that the campus of the unit is bisected by a road and that the PP was planning to substitute the green space of the unit across the road. JKEAC desired to assess the ground situation by a Sub-Committee constituted for site visit to the unit.
  - v. With respect to item v, Supra the PP had submitted compliance under **Annexure D1 and D2.**
  - vi. With respect to item vi, **Compliance were found to be awaited.**
  - vii. With respect to item vii, The Consultant informed that on the direction of District Magistrate, the Fire Service Dept. had issued the NOC but the JKEAC had desired to obtain it from Disaster Mgmt. Authority in the previous meeting. In this regard, the PP had informed that they had approached District Disaster Management Authority(DDMA), Samba after which the PP had been asked to get the third party audit for safety concerns done vide letter No. DCS/HQA/22-23/216-17 dated 08/07/2022. **However, JKEAC was of the opinion that the third party expert agency has to submit onsite emergency plan duly attested by the DDMA while as for offsite emergency, the responsibility has to be taken by the DDMA itself. Therefore, the necessary documentation is required to be submitted by the PP for enabling JKEAC to consider the case.** In this regard, JKEIAA may take up the matter with the concerned authority, the Committee had desired.

- viii. With respect to item viii, Supra the PP informed that **the material safety data sheets for key materials had been submitted.**
- ix. With respect to item ix, Supra the PP had submitted that water demand calculations which have been estimated based on actual requirement of the process and considering seasonal variation of atmospheric temperature of the cooling towers. She had informed that there was as such, no thumb rule for calculation of water. Further, engineering design practices were followed by the agencies for the designing of APCD as well as ETP. Practical learning from earlier installations had also been considered while designing the air & water pollution control systems, the consultant had informed.
- x. With respect to item x, Supra the PP had informed that production capacity of 250.64 MT had been achieved during the year 2021 which is less as compared to production capacity of 294 MT granted in earlier EC. The certificate issued by the Chartered Accountant stating the same had been presented.
- xi. With respect to item xi, Supra the PP had informed that a fresh analysis had been carried out by NABL accredited laboratory i.e. Eco Paryavaran Laboratories & Consultants Pvt. Ltd. Copy of test reports had been presented before the Committee. In addition, samples for the analysis of inlet & outlet of ETP, Boiler, incinerator stacks & DG sets had been collected by officers of JKPCCE vide letter dated 22/08/2022. Copy of test reports had been presented before the forum.
- xii. With respect to item xii, compliance was presented before the committee.
- xiii. With respect to item xiii, **compliance had been awaited.**
- d) JKEAC had desired the PP to present the compliance of all conditions of the previous ECs duly verified by concerned agency including those of expansions granted from time to time.
- e) JKEAC had also desired that before further appraisal of the case, it would be appropriate to constitute a Sub-Committee to visit the premises for making on the spot assessment of the various environmental factors at play and suitability of the site for further expansion of the unit vis-à-vis the compliances made so far and recorded herein above.
- f) It was informed that the Sub-Committee conducted the site visit of the premises of the unit on 27/02/2023.
- g) In the instant 110<sup>th</sup> JKEAC meeting, the consultant Ms Jyoti Lakhi gave a detailed PowerPoint presentation on compliances made on the observations during the previous meeting. The report of the Sub-Committee also came under discussions and the members of the sub-committee informed that the premises was suitable for further expansion and that the PP had made necessary compliances to the conditions of the earlier ECs at site. However, they desired that the following recommendations made in the report of the Sub-Committee should be complied with, by the PP:-
  - i. The proposal of the Project Proponent to use the existing green patch for construction of the new unit is not in order as the construction at this site would rob the plant of its only green patch, cause felling of grown up trees and also removal of natural segregation which as of now acts as the firewall with the adjacent industrial unit and the collection area in case of a disaster/ SOS situation. On the other hand, the visiting team, seeing the scanty plantation, suggested that existing Eucalyptus trees be supplemented with high density eco-friendly species of plants.



- ii. The visiting team found the space, as lying adjacent and to the north of the existing plant and presently being used for storage of drums more appropriate and technically suitable for the construction of the building/s required for expansion of the existing unit.
  - iii. In response, the project proponent agreed that as suggested by the visiting team, the two buildings, existing and the 2 proposed ones, would lie parallel to each other and this would also lead to synergy of operations and optimal utilization of existing infrastructure and may even lead to economy.
  - iv. The alternative piece of land adjacent to the existing plant building was tentatively measured and found adequate for construction of the building/s required for expansion of operations. Project Proponent also agreed to shift the drum storage and other activities as being conducted on area now identified for construction of the building/s to the 16 kanal plot lying on the other side of the SIDCO road.
  - v. Project Proponent agreed to modify the drawings and the other proposals pending before JKEIAA/JKEAC based on above cited observations/ recommendations.
- h) Further as per the Site Inspection Report, the PP had informed the Sub-Committee that:-
- *Existing plant / unit of Ind-Swift Laboratories Ltd. complies with all the terms and conditions of the Environmental Clearance and Consent to Operate (CTO) granted earlier to the unit and that the plant is being regularly visited by the JKPCC Staff of the Samba Division for periodical inspections.*
  - *PP has installed Online Air and Water Quality Monitoring systems linked to CPCB and JKPCC for continuous online monitoring.*
  - *In keeping with the directions of JKPCC, project proponent has also installed interlocking system for Pollution Control Devices.*
- i) During discussions, the Chairman asked the participating members of the Sub-Committee for their overall comments on the project, keeping in view the insight gained and observations made during the site visit. Accordingly, the Members of the Sub-Committee responded as under:-
- i. Shri J.N. Sharma, Environmental Engineer, JKPCC desired that the project proponent should submit the revised design and specifications of the proposed expansion proposal.
  - ii. Er. B.B. Sharma, Member, JKEAC insisted that the Green Area should be preserved at all costs and that the revised drawings with landscape plan be submitted, prior to grant of EC.
  - iii. Professor Anil Kr. Raina, Member, JKEAC desired that High density plantation should be raised in the campus.
- j) Shri M.A Tak, Member, JKEAC asked the consultant whether the expansion proposal would require installation of additional machinery in the campus. The consultant responded by saying that no additional machinery is being installed and the capacity to scale up manufacturing would be met out of the existing machinery.
- k) The Chairman, while summing up the overall observations said that the disaster management related commitments as suggested by the Committee in previous meetings were not made by the PP. The Consultant presented a third party audit report. However, the JKEAC desired that commitments made during the PowerPoint

presentations should also come on record and that **the third party expert agency must submit onsite emergency plan duly attested by the DDMA while as, for offsite emergency, the responsibility has to be taken by the DDMA itself in very clear terms. Therefore, JKEAC desired that necessary documentation is required to be submitted by the PP before grant of EC.**

#### **RECOMMENDATION OF THE COMMITTEE:**

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

1. That, the expansion proposal falls within the ambit of Notification No. S.O. 1223(E) dated 27th March, 2020 read with Notification No. S.O. 2859(E) dated 16/07/2021 whereunder relief to consider the case under B2 category was granted by MoEF&CC owing to COVID-19 outbreak and subject to condition that no further amendment to EIA Notification of 2006 has been issued by the Govt. for withdrawal of benefit to consider the case under B2 category subsequent to these notifications.
2. That, PP submits appropriate design with specifications of Additional two stage treatment for Air Control Pollution duly endorsed by JK Pollution Control Committee to JKEIAA, **prior to grant of EC.**
3. That, PP submits revised Line Diagram showing additional scrubber on the new process stake duly endorsed by JKPCC, **prior to grant of EC.**
4. That, PP adheres to the precautionary measures proposed by Joint Director, Fire & Emergency Services Department, Jammu vide his letter No.5035 dated 16/11/2020.
5. That, PP submits onsite emergency plan formulated by expert third party duly endorsed by the District Disaster Management Authority(DDMA), Samba while taking full responsibility of the offsite emergencies by DDMA itself, **prior to grant of EC.**
6. That JKPCC ensures that further expansion of the pharmaceutical industry with introduction of the products proposed under the present expansion will not cause any future environmental implication in the area that would adversely impact the human and livestock health, agricultural activity, air & water quality and livelihoods, **while granting Consent to operate to the expansion project.**
7. That, PP submits Self-Attested (with seal and signature of authorized person) of the Material **safety data sheets for key materials to be handled in the unit under the present expansion project, prior to grant of EC.**
8. That, PP submits Compliance of all conditions of the previous ECs granted initially by MoEF&CC at New Delhi or by JKEIAA for expansion, duly verified by the concerned IRO/Regional office, MoEF&CC, if pending any, **prior to grant of EC.**
9. That, PP submits modified drawings of the site in accordance with recommendations of the Sub-Committee as reflected in the Site Visit Report, **prior to grant of EC.**
10. That, PP implements the COVID-19 SOPs and guidelines issued by the Health & Family Welfare Department, GoI or the UT Disaster Management Authority from time to time.
11. That, workers in the unit shall be provided with safety equipment and special protective gear.
12. That, silent genset shall be installed at least 6 feet away from the boundary wall.

13. That, an amount of Rs 35.00 lacs shall be earmarked under Environmental Management Plan under capital budget and an amount of Rs 11.00 lacs annually as recurring costs for environmental protection.
14. That, an amount of Rs 50.00 lacs or as per CER Guidelines whichever is more, shall be spent under CER on activities like infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas, etc. in accordance with CER policy translated under OM dated 1<sup>st</sup> May, 2018 issued by MoEF&CC as per need of the local area in consultation with the District Magistrate and local PRI.
15. That, health and Life insurance of the workers of the unit shall be undertaken by the unit holder at his/her own costs.
16. That, 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.
17. That, JKEIAA reserves the right to impose any other condition in the EC at any time during the validity period. The JKEIAA reserves the right to revoke the EC in case any of the environmental clearance conditions are violated during the validity period.
18. That, mere grant of Environmental Clearance for the unit does not entitle the Project Proponent to enhance the production unless he obtains all other clearances as required under other provisions of law.
19. That, the CER and CSR activities undertaken by the unit holder with photographic evidence shall be communicated to the regulatory authority / JKEIAA annually towards the fag end of financial year.
20. That, the validity period of the EC shall be 10 years in accordance with Notification S.O. No.1807 (E) dated 12 April, 2022 issued by MoEF&CC.

#### **GENERAL CONDITIONS:**

##### **Statutory Compliance**

1. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned Pollution Control Board/ Committee.
2. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
3. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989
4. The project proponent shall strictly comply with other legal provisions applicable to the project.

##### **Air quality monitoring and preservation**

1. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
3. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
4. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.
5. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
6. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
7. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with

### **Water Quality monitoring and preservation**

1. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)
2. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).
3. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
4. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
5. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
6. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
7. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

## **Noise monitoring and prevention**

1. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
2. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
3. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time Energy conservation measures The energy sources for lighting purposes shall preferably be LED based.

## **Waste management**

1. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
2. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
3. The company shall undertake waste minimization measures as below:-
  - a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - c. Use of automated filling to minimize spillage.
  - d. Use of Close Feed system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

## **Green belt**

The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

## **Safety, Public Hearing & Human Health Issues**

1. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
2. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places
3. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
4. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
5. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.

6. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

7. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

### **Corporate Environment Responsibility**

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.

2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

5. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

### **Miscellaneous**

1. 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.

2. 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.

3. 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.

4. 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.

5. The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEFCC.

**Other conditions: -**

1. The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Chandigarh.

2. This Clearance is subject to final order of the Hon'ble Supreme Court of India or any other court of competent jurisdiction in any matter having bearing on the said project.

3. The Environmental Clearance shall be without prejudice to any order /standing instruction from Hon'ble National Green Tribunal, Ministry of Environment, Forest & Climate Change(MoEF&CC), Indian Council of Medical research(ICMR) or Drug Controller, J&K or any competent authority.

4. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Institute by the proponent.

5. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the institute in the public domain.

6. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

7. The Environmental Clearance shall be valid for a period of five years from the date of its issuance or as per guidelines from the MoEF&CC issued in this regard whichever is less.

8. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**AGENDA ITEM NO: 02**

Title of case:	Reconsideration of the case relating to Grant of Environment Clearance for STP Minor Mineral (Quarry) block, Area (0.25 Ha) at village Hunjala, District-Kishtwar, in favour of M/S Executive Engineer, PMGSY, Kishtwar.
Project type (whether mining lease/STP/Quarry license/brick earth)	STP Quarry (Minor mineral)
Category(B1/B2)	B2
Proposal no:	SIA/JK/MIN/268040/2022
File no:	JKEIA/2023/646
Consultant with validity	M/S Dr. J.S. JAMWAL (RQP) Valid till: 12/02/2029
Presenter of consultant:	Dr. J.S. JAMWAL
Project proponent / representative of Project proponent:	None.

**CASE SUMMARY**

Status	Area (Ha)	Land Title	Khasra & Survey No.	Adv. Royalty (in lacs)	Project cost (in lacs)	EMP cost proposed (in lacs)		CER budget proposed (lacs/annum)
						Capital	Recurring	
New Project	0.25	Pvt. Land	1416 43 (0/15)	3.805	12.769	1.94	---	0.38

Dimensions of the Pit (Mts) (L*W*H)	Mining Methodology	Topography (mRL)		Cluster situation (Yes/No)
		Highest Contour	Lowest Contour	
(72*42*2)	Open cast, bench method	1656	1629	NO

Mine Closure plan proposed (in lacs)	Ultimate Pit Depth (mts.)	Mining period (Months)	Total quantity of mineral to be extracted in 3 months as per approved mine plan (MT)	Water Requirement (KLD)	Bulk density proposed	Haulage Route (Kms)
0.0375	2.00	3	15000	3.50	2.6	0.75



## PROJECT EVENT DATES

Date of Letter of Intent/Approval	Revalidation of LOI, if any	LoI Date of Validity	Date of Mining Plan approval
26/06/2021	18/08/2022	18/02/2023	30/09/2021

ToRs granted on	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	24/12/2022 and 15/01/2023	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	
4	District Survey Report	Formulated not as per guidelines	
5	Environmental Management Plan/ Corporate Environmental Responsibility (EMP/CER)	Formulated but needs revision	

### NO OBJECTION CERTIFICATES

S. No.	Department	Status as per NOC	Remarks/ Reference
1	Irrigation Dept.	Issued	The NOC issued by the Revenue Dept., is ambiguous and not legible.
2	Flood Control Dept.	Issued	
3	Fisheries Dept.	Issued conditionally	
4	Forest Dept. (if required)	Issued as non-forest	

5	Wildlife Protection Dept (If required)	Issued conditionally	As per PFR the land under the quarry mining is private land (Affidavit attached)
6	Pollution Control Board	Not submitted	
7	Revenue Dept.	Ambiguous	
8	PHE (Jalshakti) Dept.	Issued conditionally	
10	Soil and Water Conservation dept.	---	

## WATER REQUIREMENT

Source	Purpose	Avg. Demand/day (KLD)
Portable water	Dust suppression & Green belt	3.00
	Domestic (Considering 15 litres per person per day for 21 people)	0.50
Total water demand		3.50

## ENVIRONMENTAL MANAGEMENT PLAN

S. No	Proposed actions	Budget proposed by Proponent (in lacs)		Budget recommended by JKEAC (in lacs)	
		Capital	Recurring	Capital	Recurring
1	Green belt development	0.30	0.00	0.50	0.00
2	Haulage route maintenance	0.30	0.00	1.00	0.00
3	Env. Awareness programme	0.10	0.00	0.00	0.00
4	Pollution monitoring	0.00	0.00	0.00	0.00
5	Dust suppression	0.90	0.00	1.00	0.00
6	Occupational Health & Safety of mine workers	0.34	0.00	0.50	0.00
7	Solid waste management	0.00	0.00	0.00	0.00
	Total	1.94	0.00	3.00	0.00

## CORPORATE ENVIRONMENT RESPONSIBILITY

S.No.	Project activity	Activities	Annual Budget proposed by Proponent (in lacs)	Remarks
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1	Education	Provision for uniform, stationary items to school going children	0.12	
2	Env. awareness	Environmental awareness camp in the nearby village	0.10	
3	Health	Community medical camp	0.16	
	Total		0.38	

#### **BUDGET FOR SURVILIENCE**

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

**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	Adjacent to Mining site boundary	Uphill (Mts.)	Downhill (Mts.)	Remarks
1	Features indicative of Illegal mining	No	-	-	-
2	Settlements around the quarry	Yes	325 mtr	350 mtr	Settlements were observed both uphill and downhill of the mining site
3	Educational Institution	Not identifiable	-	-	Not identifiable
4	Hospital/Health Institution	Not identifiable	-	-	Not identifiable
5	Green patch (Cropland / trees /orchard etc.)	Yes	Within block	Within Block	Open forest/ scattered trees were observed both within & outside quarry mining block
6	Stream/River in close vicinity	Not identifiable	-	-	Not identifiable
7	Springs and other drinking water sources in close vicinity	Not identifiable	-	-	Not identifiable
8	Haulage route	Yes	-	65 mtr	Approach road is located adjacent to the mining site
9	Distance w.r.t National Park/Wildlife Sanctuary/ESZ	Not identifiable	-	-	Not identifiable
10	Involvement of forest land or any other relevant specific feature of interest or condition which is critical to grant of Environmental Clearance to the proposed project	No	-	-	As per NOC of Forest Dept. the quarry mining site is 544 m away from the nearest forest boundary line.

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

- a) The case had earlier been initially presented by Mr. Jamwal, RQP for consideration of case relating to grant of EC for Short Term Permit Quarry submitted by the Executive Engineer, PMGSY, Kishtwar under B2 category with an area of 0.25 Ha for extraction of 15000MT of stones in the 105<sup>th</sup> Meeting

held on 24/12/2022 during which the Committee had not agreed to recommend the case in view of dense vegetation and slopy terrain observed on Google Earth image.

- b) Subsequently, the case had again been listed in the 108<sup>th</sup> JKEAC held on 15/01/2023 in pursuance to letter No. JKEIAA/2023/646/7953-54 dated 06/02/2023 received from JKEIAA, for its reconsideration.
- c) During proceedings of 108<sup>th</sup> Meeting of the Expert Appraisal Committee, the KML file of the project site submitted by the project proponent was again used to examine the STP site on the Google Earth Image and JKEAC again observed features indicative of vegetative cover and slopy terrain.
- d) The consultant had tried to present a live video of the area with a person in field but he could not co-relate the site as viewed on Google Earth with the ground features. There was also none from the concerned department/Project Proponent's side to explain the real ground situation to the Committee.
- e) The Committee had also observed that the area had considerable slope and any mining activity would trigger landslides. Further, committee had expressed its apprehensions on as to how the haulage of material would be carried out without disturbing the slope in the intervening area from road to the site as observed on the image.
- f) Therefore, JKEAC had recommended that the DFO and DMO concerned after identifying the STP site in field, should issue a clarification with respect to type of vegetation in the STP and likely impact of mining on the slope for enabling this forum to take further decision in the matter.
- g) In the instant 110<sup>th</sup> JKEAC Meeting, the Consultant presented copies of letter No. DMO/K/JKEAC/2022-23/969-71 dated 31/03/2023 from concerned DMO and letter No.7594/KFD dated 29/03/2023 from concerned DFO in response to JKEAC letter No. EAC/JK/23/14777-14782 dated 23/02/2023 wherein clarification had been sought to help JKEAC in taking an appropriate decision in the matter. The content of the two letters came under discussion and it was observed that the DMO has clarified that the site was appropriate for quarrying purposes. Similarly, the DFO has reported that there is no vegetation in the proposed site except Heru (*Quercus ilex*) found in the area adjoining the proposed site.
- h) The consultant/RQP was asked to provide details as to how the haulage of materials could be carried out and he presented the extraction route plan. The Committee observed that the extraction route is required to be constructed from the main road and therefore, adequate engineering measures need to be taken to stabilize the slope along the extraction route, with updation of mineral recovery details owing to extraction route in revised mining plan. The RQP, Shri Jamwal informed that the maximum bench height shall be maintained at 2m only.
- i) Therefore, in view of the assertions made in the communication from the concerned DFO and DMO, the Committee agreed to recommend the case for grant of EC subject to conditions as mentioned in the following recommendation and under close supervision of the stakeholder departments.

#### **RECOMMENDATION OF THE COMMITTEE:**

In view of the above deliberations and report received from the DFO and DMO concerned, JKEAC recommends the case for grant of Environmental Clearance subject to condition that the **project proponent revises and updates the mining plan, prior to grant of EC**, by including the area coming under proposed approach/haulage for the mine in the

mined area itself and observes all stipulations for environmental protection/guidelines as govern the minor mineral projects, besides, adhering to following General and Specific conditions:-

**GENERAL CONDITIONS: -**

<b>Category</b>	<b>S. No.</b>	<b>Environmental Conditions</b>
<b>Stake holder engagement</b>	1	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.
	2	The genuine concerns of the local people translated through local Panchayat shall be addressed during the mining operations
	3	The labourers should preferably be from nearby villages
	4	All the orders from Hon'ble Courts of competent jurisdiction and authorities representing various government departments having stakes shall be complied with during the mining operations.
<b>Sustainable Mining Practices</b>	5	The recommendations made in the District Survey Report on sustainable mining practices if any shall be complied
	6	The bench height shall be as per mining plan or as recommended by the J&K Expert Appraisal Committee
	7	Mining activity shall not be allowed in rainy season
	8	The extraction route shall be properly defined by the DMO concerned in consultation with other stakeholders.
	9	The extraction route shall be stabilized through construction of concrete retaining walls with provision of catch water drains to arrest erosion
	10	No stream should be diverted for the purpose of mining. No natural water course and/ or water resources should be obstructed due to mining operations.
	11	Mining shall be carried by low profile machinery out without adoption of drilling & blasting. The minor mineral shall be exploited manually with spade, chisel, etc.

<b>Identification and Preparation of Mining Site</b>	12	Mining should be initiated only after installation of signboards with demarcation pillars indicating the geo-coordinates of the plot at each corner to be laid in presence of the authorized official of the Geology & Mining Department
	13	There should be no change in the method of excavation and quantity of minerals to be extracted.
<b>Monitoring the Mining of Mineral and its Transportation</b>	14	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
	15	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.
	16	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.
<b>Noise Management</b>	17	Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit. Measures should be taken to control noise levels below 85 dBA in the work environment. Workers should be provided with ear plugs.
	18	Restricted working hours. Mining operation has to be carried out between 6 am to 7 pm.
<b>Air Pollution and Dust Management</b>	19	The EC holder shall take all measures for protection of Environment and control of Pollution.
	20	The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly at loading, unloading and transfer points.
	21	The critical parameters of the Air and water shall be monitored within the impact zone of the Mine area particularly in the nearby habitations. The standing instructions issued from time to time by the Ministry of

		Environment, Forest & Climate Change (MoEF&CC) and Central Pollution Control Board (CPCB) shall be referred in this regard for compliance.
	22	Air due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.
	23	The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded.
	24	Overloading of trucks and trolleys will be avoided.
	25	Personal protective equipment's will be provided to the workers.
	26	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
<b>Solid waste management</b>	27	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.
	28	Bins shall have to be provided at site for collection of solid waste.
<b>Bio-Diversity Protection</b>	29	Adequate measures must be taken for the protection of local fauna and flora
	30	Protection of wildlife habitats shall be ensured.
	31	No felling of trees within or near mining site is allowed.
	32	Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.
<b>Management of Instability and Erosion</b>	33	The PP shall use of oversize material to control erosion and movement of sediments
	34	There shall be no extraction of stone / boulder / sand in landslide prone areas.
	35	The mined area should be regressed and properly turfed



	36	The PP should take adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures
	37	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.
<b>Waste Management</b>	38	Site clearance and tidiness is very much needed to have less visual impact of mining.
	39	Dumping of waste shall be done in earmarked places as approved in Mining Plan
	40	Rubbish burial shall not be done in the nearby streams
<b>Enhancement of Road Safety</b>	41	Vehicles used for transportation of sand are to be permitted only with fitness and PUC Certificates
	42	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.
	43	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.
	44	No stacking shall be allowed on road side or along National Highways.
<b>Health and Safety</b>	45	Health and safety of workers should be taken care of. They should also be provided training in safety and health care aspects.
	46	Adequate facility for drinking water and toilets should be provided for the workers
	47	Transport of mineral will not be done through villages / habitations.
	48	Deep drilled handpump with sufficient funding provision should be earmarked for providing drinking facility to the labour force and accordingly it should be reflected in the revised EMP

	49	Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted.
<b>COVID-19 SOPs</b>	50	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.
<b>Other mandatory requirements</b>	51	The copy of the EC shall be endorsed to the local Panchayat and all stake holder departments.
	52	The JK Pollution Control Board/ Committee shall display the EC at its Regional office, District Industries Centre, Collectors office/ Tehsildar Office for 30 days.
	53	The Project Proponent shall advertise, within 7 days of the date of issue of the EC, in two local dailies that the project has been granted EC and the copy of EC is uploaded on the MoEF&CC website at parivesh.nic.in. and copy of same should be endorsed to the Regional Office of the MoEF&CC at Chandigarh for information and necessary action.
	54	The MoEF&CC may alter/ modify or stipulate any other condition before, during the operations of the mine if it is found to be in the interest of environmental protection.
	55	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 with drawl of the EC and attract action under the provisions of EP Act, 1986.
	56	All the provisions of Minor Mineral Rules sanctioned under SRO105 with all amendments thereof with respect to pertinent provisions of the legal framework relating to progressive mine closure shall be complied by the Project Proponent.
	57	The EC is subject to condition that the mining site is located on state land exclusively without any encumbrances of any sort.
	58	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.

**Specific Conditions: -**

1	The EC shall be subject to other statutory clearances including FCA and Wildlife Clearance, <b>if applicable to the project, under rules.</b>
2	The project proponent shall extract material only within the prescribed bench height as per mining plan and as agreed by the Expert Appraisal Committee, strictly within the size of the plot area as provided in the allotment letter from G&M Dept. and within the prescribed period under Rules.
2	The EC shall be subject to the condition that the material extracted is utilized only for the purpose for which the applicant has applied.
3	The formal STP shall be granted only after the Project proponent transfers funds earmarked under EMP/CER to the concerned stake holder departments like CMO concerned and DFO concerned <b>in advance before grant of STP</b> for utilization under close supervision of the Local Panchayat Head.
4	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.
5	This Environmental Clearance is without prejudice to the standing instructions /orders/ Notifications from the competent authorities in the MoEF&CC, GoI and the UT of J&K.
6	The grant of EC does not imply approval of the Govt. required under any other provision of law applicable in the UT of J&K
7	Before granting the STP, the Geology & Mining Department shall certify that no mining lease is in operation within 500 mts from the plot identified for STP.
8	The EC holder shall obtain an estimate from the concerned DFO, Social Forestry Division for planting recommended number of saplings of indigenous species in the nearby wastelands for which the funds required for planting and its maintenance for 2 years shall be transferred to the DFO, Social Forestry concerned <b>in advance</b> prior to grant of formal Short-Term Permit, for utilization to protect local biodiversity in the area. Accordingly, the PP shall revise the Environment Management Plan in consultation with concerned DFO Social Forestry Dept. Separate account shall be maintained for the funds so earmarked.
9	The District Mineral Officer shall monitor the stability of mined-out areas, traffic management, levels of production, exit point of the site and instruct the Project proponent for initiating measures for mitigating environmental concerns.
10	The project proponent shall take all precautionary measures during mining operations for conservation and protection of endangered fauna and flora in the area.

11	The workers should be provided with PPEs. 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. The funds earmarked under Occupational Health care shall be transferred to the CMO concerned <b>in advance</b> before grant of STP in favour of the project proponent who will maintain separate account for the same.
12	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.
13	Provision shall be kept for housing of the labour force, toilets, facilities for cooking, safe water, health care, crèche etc. for the labour force.
14	A final Mine closure Plan along with details of Corpus fund shall be communicated to the MoEF&CC in advance for approval.
15	The top soil in case of surface land mining shall be temporarily stored at an appropriate site and concurrently used for land reclamation.
16	The mining operations shall be undertaken in a systematic manner so that it does not damage the aesthetic view of the area.
17	Adequate steps should be taken to check soil erosion and engineering structures shall be raised wherever required.
18	Mining shall not be allowed where there is danger to slope stability and places of cultural, religious and historical significance.
19	The compliance report shall be submitted to the Regional Office of the MoEF&CC at Chandigarh with a copy to the Regulatory Authority.
20	The quantity of mineral to be extracted under the STP shall in no case exceed 15000MT within the maximum prescribed period of three months.
21	While formally granting STP, the G&M Dept. shall obtain a certificate from the concerned DMO to the effect that mining operations shall not involve any felling of green tree(s) and destabilization of the slope.
22	The PP shall not sublet the quarry to any third party without written approval of the JKEIAA
24	The EC shall be valid for a maximum period of three months or as approved by JKEIAA, operational from the date of commencement of the mining operations duly

	certified by the District Mineral Officer concerned with intimation to the JKEIAA, JKPCB and the concerned District Administration.
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### AGENDA ITEM NO: 03

Title of case:	Grant of Terms of Reference for “Limestone mine” at village-Mattan Martand, District- Anantnag, UT- J&K; Area- 4.844 Ha in favour of M/S BAWAN MINERALS. (TOR).
Project type (whether mining lease/STP/ Quarry license/brick earth)	Limestone Quarry (Major mineral)
Category(B1/B2)	B1
Proposal no:	SIA/JK/MIN/407176/2022
File no:	SEAC/JK/2018/63
Consultant with validity	M/S Paramarsh ( Servicing Environment & Development) Valid till: 01/05/2024
Presenter of consultant:	Dr. Suirin Vikram and Shri Pankaj Pandey
Project proponent / representative of Project proponent:	Jehangir Ahmad Khan

### CASE SUMMARY

Status	Area (Ha)	Land Title	Khasra No.	Mining lease reference No.	Project cost (in lacs)	EMP cost proposed (in lacs)		CER budget proposed (lacs/annum)
						Capital	Recurring	
New Project	4.844	State land	1925-Min	G.O.159-IND of 2005	92.97	5.20	0.00	4.64

Mine Closure plan proposed (in lacs)	Ultimate Pit Depth (mts.)	Annual depth of working (m)	Mining Methodology	Topography (mRL)		Cluster situation (Yes/No)
				Highest Contour	Lowest Contour	
Not provided	66	1 <sup>st</sup> Year=18 2 <sup>nd</sup> Year to 5 <sup>th</sup> year=12x4=48	Mechanized, open cast mining method	1882.40	1804.60	Yes

Mining period (years)	Total mineable reserves as per approved mine plan (MT)	Avg. Annual Production (MT/Annum)	Water Requirement (KLD)	Bulk density proposed (t/m <sup>3</sup> )	Haulage Route (Kms)
5	1.265117	143930	6.08	2.5	0.30

### PROJECT EVENT DATES

Date of lease	Lease extension date	Existing Lease (Date of Execution)	Date of extension of Lease	Period of Lease extension (yrs)	Date of Mining Plan approval
21/06/2005	21/01/2023	15/12/2015	21/01/2023	50	26/07/2022

ToRs granted on	Baseline data Collection by project proponent as the case may be	Public Hearing held on	Case discussed by JKEAC earlier on	Earlier Decision
Not Yet	Not Yet	Not Yet	08/09/2018 in 9 <sup>th</sup> Meeting of JKEAC	PP asked to apply afresh under B1 category

### APPRAISAL PROCESS

(To be filled by JKEAC during online appraisal)

### STATUS OF DOCUMENTATION

S. No.	Document	Status	Remarks of the Committee
1	Form 1/Form 2 /Form 1-M as applicable	Submitted	Form-1 Submitted
2	Pre-feasibility report (PFR)	Submitted	Needs revision as per deliberations/ observations /recommendations
3	Approved Mine Plan /Mine closure Plan	Formulated not as per guidelines	Needs revision as per deliberations.
4	District Survey Report	Formulated not as per guidelines	

5	Environmental Management Plan/ Corporate Environmental Responsibility (EMP/CER)	Formulated but needs revision	Needs revision as per deliberations/ observations /recommendations
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### 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.	Not submitted	
4	Forest Dept. (if required)	Issued as non-forest	
5	Wildlife Protection Dept (If required)	Issued	
6	Pollution Control Board	Not Issued	
7	Revenue Dept.	Issued as state land	
8	PHE (Jalshakti) Dept.	Not submitted	
10	Soil and Water Conservation dept.	Issued conditionally	

### WATER REQUIREMENT

Source	Purpose	Details	Avg. Demand/day
Portable water	Drinking @ 15 lpcd/workers	48 workers × 10 lpcd = 480 lpcd	0.480 KLD
	Mine operation/ others	---	1.00 KLD
	Land reclamation/ plantation @ 1 Lit/tree	1000 trees × 1 lpcd = 1000 lpcd	1.00 KLD
	Dust suppression @ 2 lit/Sq. m (Twice in a day)	Haul Road Area = (300 m Length × 6 m width = 1800 m <sup>2</sup> ) × 2 lpcd/Sq. m = 3600 lpcd	3.6 KLD
Total water demand			6.08 KLD

### DETAILS OF REVENUE/ROYALTY COLLECTED IN LAST THREE YEARS

YEAR	2014-2015	2015-2016	2016-2017
Total amount	15,36,088	28,19,917	21,50,400

### ENVIRONMENTAL MANAGEMENT PLAN

S. No	Proposed actions	Budget proposed by Proponent	Remarks/
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		(in lacs)		Shall have to be revised with appropriate budget after conduct of EIA study
		Capital	Recurring	
1	Green belt development	2.00	0.00	
2	Haulage route maintenance	1.00	0.00	
3	Env. Awareness programme	0.00	0.00	
4	Pollution monitoring	1.00	0.00	
5	Dust suppression	1.20	0.00	
6	Occupational Health & Safety of mine workers	0.00	0.00	
7	Solid waste management	0.00	0.00	
	Total	5.20	0.00	

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

S.no.	Features observed	Adjacent to Mining site boundary	Uphill (Mts.)	Downhill (Mts.)	Remarks
1	Features indicative of Illegal mining	Yes	-	-	Illegal mining signs were observed both within & outside mining block the in latest google image of 12/2022
2	Settlements around the quarry	Yes	-	290 m	Settlements were observed downhill of the mining site
3	Educational Institution	Yes	-	850 m	Govt. higher secondary school located downhill of the mining block
4	Hospital/Health Institution	Yes	-	660 m	Primary health centre located in the downhill of the mining site
5	Green patch	Yes	125 m	260 m	Scattered trees/orchid were observed both



	(Cropland / trees /orchard etc.)				uphill & downhill of the mining site
<b>6</b>	Stream/river in close vicinity	<b>Yes</b>	-	<b>30 m</b>	Martand canal was observed on latest google image on downhill of the mining site
<b>7</b>	Springs and other drinking water sources in close vicinity	<b>Not identifiable</b>	-	-	Not identifiable
<b>8</b>	Haulage route	<b>Yes</b>	-	-	Running adjacent to the mining block
<b>9</b>	Distance w.r.t National Park/Wildlife Sanctuary/ESZ	<b>Not identifiable</b>	-	-	Not identifiable
<b>10</b>	Involvement of forest land or any other relevant specific feature of interest or condition which is critical to grant of Environmental Clearance to the proposed project	<b>No</b>	-	-	As per NOC of Forest Dept. the mining site is 122 m away from the nearest forest boundary line.

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

- a) Earlier, the case had been discussed online on 15/02/2023 and later in physical mode at Jammu on 20/03/2023 during which PP had informed that he had changed the consultant from M/S Cognizance Research India Pvt. Ltd. to M/S Paramarsh (servicing Environment and Development).
- b) In the instant 110<sup>th</sup> JKEAC meeting a brief historical perspective of the case was presented before the committee in view of presence of Dr. Abdul Majeed Bhat, Geological Expert who had been requested to assist the committee during the meeting.
- c) The consultant gave a detailed PowerPoint presentation on the project which was followed by discussion in the light of observations made by the Committee during its site visit conducted on 8<sup>th</sup> of April, 2023. The Secretary read out the Site Visit Report before the Committee after displaying it on the screen.
- d) Dr. Abdul Majeed Bhat, was asked to provide his expert comments and suggestions which could be included in the specific ToRs for making the EIA report more

comprehensive and meaningful in view of natural, manmade and archaeological assets in close vicinity of the project site. He was of the opinion that the Committee should recommend a study specifically for ruling out the possibility of it being a fossils site. He desired ground truth verification of the area by him for developing better understanding of the site. Therefore, the Chairman asked the Secretary to facilitate site visit of Dr. Abdul Majeed Bhat at the earliest. In the meantime, it was unanimously agreed to recommend the project for grant of Terms of Reference for preparation of the EIA Report/EMP and it was suggested that in case Dr. Abdul Majeed Bhat comes up with any other specific ToRs after site visit, that shall be communicated to the Consultant for inclusion in the EIA study.

- e) Further, it was desired that a chapter on aesthetic impact of mining activity and the requisite mitigation measures to compensate for the same should be included in the EIA study, besides comprehensive study on cost benefit analysis w.r.t environmental and social aspects.

### **Recommendation:**

In view of the above deliberations, the Committee recommended grant of following Terms of Reference to the project for enabling the consultant to prepare the EIA/EMP and to conduct the Public Hearing as per Rules: -

#### ***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 Form1 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. On account of natural topography of the mining site, there is a strong possibility of loose muck, mined mineral and the accumulated surface runoff finding its way into the canal causing its blockage and consequent overflow of canal which may result in loss of life and property. Therefore, the area needs to be studied on this aspect as well and all engineering measures, as are felt necessary by the Irrigation and Flood Control Department to prevent such an eventuality need to be assessed with costs thereof.

2. As per site visit report, there exists a buffer area of average 7.5 mts in width in the shape of a strip that runs all along between uphill side of the Martand Canal and the lower boundary of the proposed mining site. A study is required to assess the possibility of construction of an embankment in the buffer area with cost thereof including cost of creation of green belt/ plantation for its stabilization.
3. To compensate for the loss of aesthetics and to hide the scars on the natural landscape of the hillock due to proposed mining, JKEAC desires that a study is required to be undertaken to assess the quantum of muck / over burden / top soil eventually getting generated through such mining activity, with appropriate disposal, without adversely impacting the local environment.
4. The slope of the hillock is steep and therefore, the mining reserve and its exploitation needs to be backed up by extensive geological studies which should include study on the behavior of the rocks, their joints, slopes, benching required for safe harvesting of the mineral and assessment of the impact of use of heavy equipment in the area. A comprehensive Environment Impact Assessment of mining in this ecologically fragile area with consequent Geological and ecological implications is also required to be studied.
5. Though the rock outcrop appears to be stable yet impact on the forest demarcation line at the top of the hill further needs to be assessed. It was also opined that mining should not be proposed in areas with precipitous slope close to the forest demarcation line.
6. The Members also desired to know the total number and size of leases granted by the dept. or in pipeline likely to be granted in the hillock and desired a comprehensive study on assessment of cumulative impact of such mining leases on the fragile ecology of the area, important monuments, canal system and health of human and bovine population.
7. The impact of mining activity on runoff and judicious mitigative measures that could help channelization of the runoff through multiple catch-water drains to prevent land slips also need to be assessed.
8. The analysis of environmental costs and probable economic benefit to balance environmental concerns and economic benefits using well established scientific models need to be conducted to ensure that environmental costs do not outweigh the economic benefits from any such mining activity in a locality with fragile ecology and high tourism potential.
9. Impact of mining activity on archaeological, tourist and other assets in the area.
10. Impact of mining activity on adjacent agricultural / Horticultural land with particular reference to run off, soil erosion and top-soil loss due to change in topography.
11. Details of Gradient of riverbed and 3-D view draped on the satellite image.
12. Details of excavation schedule & sequential mining plan with maximum bench height
13. 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.
14. Impact on mining activity on the existing land use patterns in the study area.
15. NOCs from HoD/competent authority of Wildlife Protection Department and Disaster Management Department, Health Services Dept. School Education Dept., concerned Superintendent of Jail in the close vicinity, Irrigation Dept., PHE Dept., Agriculture Department and Horticulture department should be obtained and submitted while applying for EC.
16. A digitalised surface plan showing coordinates, physical measurements, gradient and inter-cross sections at different intervals should be a mandatory part of mining plan.



17. The Photography and videography of the mining site shall be part of the Terms of Reference.
18. The maps shall be submitted on a scale of 1: 3000 and 1: 1500 within 10 kms. Radius of the site.
19. The shortest extraction route leading to the main road but with minimum interference with human settlements should be identified and described in detail along with mitigation measures if required so. This along with the map and its KML file be part of an exclusive chapter in the EIA/EMP.
20. Dust suppression measures should be prescribed in the EIA/EMP.
21. Ecological /landscape restoration plan need to be submitted under a separate chapter with mine closure plan.
22. Post project monitoring plan should be included in the study.
23. Occupational health impacts should be assessed and plan for implementation of COVID-19 SOPs in the mining activity should be detailed.
24. 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.
25. 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.
26. Mining shall be proposed manually minimally supported by semi-mechanized methods. No blasting operations shall be proposed in the mining plan.
27. Impact on human health and bovine population in the vicinity should be assessed and mitigative plans proposed.
28. The prescribed TORs would be valid for a period of four years for submission of the EIA/EMP reports, as per the S.O. No. 751(E) dated 17th of Feb., 2020. Besides, the TORs are recommended without prejudice to the standing court orders, if any, w.r.t the concerned mining project or final outcome of writ petitions/LPAs pending disposal before any competent court of law w.r.t the concerned mining site.

### **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	M/S Eco Laboratories and Consultants Pvt Ltd.	M/S Joginder Singh Jamwal (RQP)	M/S Paramarsh ( Servicing Environment & Development)
1	Submission of the documents	5	5	6
2	Site Appreciation Note, kml /kmz file, site photo and site videos and PowerPoint presentation	5	5	5
3	Presentation of factual details of case(s)	4	4	5
4	Field knowledge of the case(s)	6	3	5

5	Formulation of PFR, EMP, EIA, CER etc.	5	4	5
	Overall professional conduct during proceedings	5.0	4.2	5.2

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

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

NO:EAC/JK/23/14921-14934

Dated:01-06-2023

Copy by email to:

1. The Member Secretary, J&K Environment Impact Assessment Authority (JKEIAA), /PCCF/Director, Ecology, Environment and Remote Sensing, J&K Govt., Jammu for favour kind information.
2. Sh. S. C. Sharma, Chairman, J&K Expert Appraisal Committee, (JKEAC) 331 Shastri Nagar, Jammu-180004 for favour of kind information.
3. Sh. M.A Tak, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) 124 Mominabad (Near Jakfed), Anantnag Kashmir,-192101 for favour of kind information.
4. Sh. BrajBhushan Sharma, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) 278/2 Channi Himmat, Jammu for favour of kind information.
5. Professor Shakeel Ahmad Romshoo, Member, J&K Expert Appraisal Committee, (JKEAC) Department of Earth Sciences Kashmir University Srinagar-190006 for favour of kind information and necessary action please.
6. Sh. Abdul Rashid Makroo, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) H/No. 9 Lane No 11 Sector C, Gulshan Nagar Nowgam Bypass, Srinagar-190019 for favour of kind information please.
7. Professor ArvindJasrotia Member, J&K Expert Appraisal COMMITTEE, (JKEAC) 33/D Sainik Colony Jammu-180011 for favour of kind information please.
8. Dr.Ghulam Mohammad Dar, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) Main Campus IMPA&RD, M.A Road, Srinagar-190001 for favour of kind information please.
9. Sh. IrfanYasin, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) Bagh-e-Hyderpora, Bypass, Srinagar for favour of kind information please.
10. Professor Anil Kumar Raina, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) Department of Environmental Science University of Jammu, Jammu-180006 for favour of kind information please.
11. Professor M. A. Khan, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) Khan House, A-27 Milatabad, Peerbagh "B" Srinagar for favour of kind information please.

12. Dr.Falendra Kumar Sudan, Member, J&K Expert Appraisal COMMITTEE, (JKEAC) Professor Department of Economics University of Jammu, Jammu for favour of kind information please.
13. Shri JN Sharma, Environmental Engineer, JKPCC, Jammu for information and necessary action please.
14. Dr. Abdul Majeed Bhat, Geological Expert, Bachpora for information.
15. Sh. Jehangir Ahmad Malik Sr. Steno/Sheikh Sajid, for information and with direction to upload the minutes on the environmental clearance portal at [parivesh.nic.in](http://parivesh.nic.in).
16. Concerned File.