

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 19 दिसम्बर 2023

अध्यक्ष महोदय की अनुमति से अन्य बिन्दुओं पर चर्चा

The following cases were placed before the committee in the 704th meeting of SEAC on 19th December 2023 for appraisal and recommended by the committee for grant of prior EC. Some clerical errors were observed in the minutes, the same have been corrected. Submissions, observations and discussions made before the committee, pertaining to these cases may be read as follows:

1- Case No 9913/2023 Mr. T. Sathianadhan, Head Manufacturing LR & PC, Product Factory Manager, Plot No. 158 & 158A, Sector-3, Pithampur, Dhar (MP)-454775, Prior Environment Clearance for regularization of existing production facilities for Steel wires of capacity 180000 TPA located at 158, 158A, Sector-A, Pithampur, Tehsil & District-Dhar, (M.P.) (EIA Presentation)

This is a case submitted for Prior Environment Clearance for Regularization of an existing unit engaged in production of Steel Wires (101400 TPA) and proposes to increase the production to 180000 TPA at Plot No. 158 & 158A, Industrial Area, Pithampur, Dist. Dhar (MP). The project is covered under the Category: 3(a) of EIA Notification. The case was presented by the PP and their Env. Consultants. It was submitted that earlier EIA Notification was not applicable to this project. Later, by virtue of NGT Order dated 12th February, 2020 and subsequent Notification S.O. 3250(E) dtd. 20th July. 2022 of MoEF&CC, the project was required to obtain EC. Thus, the proposal was submitted for regularization of production facilities for Steel Wires of capacity 180000 TPA (as per valid Consents of MPPCB). The TOR was recommended in the 649th meeting of SEAC dated 07th June 2023.

The case was presented by Env. Consultant Shri Garvey from M/s. Enacon Lab. Pvt. Ltd., Nagpur & PP Shri Mr. T. Sathianadhan.

Salient feature of the project are as follows:

- The company “M/s. TATA Steel Limited - Wire Division” was established in 1975 to produce steel wires for various applications. Wire division is one of the profit centres. The main objective of the organization is to achieve optimum production with high safety health & environment standard.
- “M/s. TATA Steel Limited - Wire Division” Pithampur MP plant started its operations in 2006, its old unit named as Indore Wire Company, acquired by Tata

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 19 दिसम्बर 2023

Steel Ltd. PWP as on 2021 is one of the well-established manufacturing unit for GWI from operational, market & financial perspective. PWP has become hub for infrastructure segment. Produces all wires of infra family like LRPC strand, single LR, PCSR etc. and is largest plant by capacity owned by GWI.

- The proposal is for a Regularization of facilities for steel wires of capacity 180000 TPA (as per CTE) located at Plot No. 158 & 158A, Industrial Area Pithampur, District: Dhar (MP) - 454775.
- This is a proposal for seeking Environmental clearance for regularization of existing production facilities (as per CTE) as per MoEFCC, Notification S.O. 3250(E) dtd. 20th July. 2022
- The Company has valid CTE for 180000 TPA production capacity from MPPCB with Letter No. 57134 Dtd. 06.10.2022.
- The present proposal is coming falls under Sector 3(a) Metallurgical Industries of B - Category as per EIA Notification 2006.
- Public Hearing exempted for rolling mills regularization projects As per Gazette of India Notification dtd. 20th July, 2022.

The presentation and submissions were found satisfactory and acceptable, hence the case was recommended for grant of **Prior Environment Clearance for regularization of existing production facilities for Steel wires of capacity 180000 TPA located at 158, 158A, Sector-A, Pithampur, Tehsil & District-Dhar, (M.P.)** subject to the following special conditions:

A. Statutory compliance:

- I. 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 State pollution Control Board/ Committee.
- II. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water/from the competent authority concerned in case of drawl of surface water required for the project.
- III. The project proponent shall obtain consent/authorization from MP Pollution Control Board.

B. Air quality monitoring and preservation

- I. 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 vide G.S.R 277 (E) dated 31" March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- II. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories
- III. The project proponent shall install system carryout Continuous 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 S02 and NOx in reference to S02 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.
- IV. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality I fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six monthly monitoring report.
- V. Appropriate Air Pollution Control (APC) system such as Bag filters (reverse pulse jet cleaning) shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
- VI. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- VII. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly. All the internal roads shall be made pucca.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 19 दिसम्बर 2023

- VIII. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- IX. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- X. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- XI. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- XII. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, oil, cellars.

C. Water quality monitoring and preservation

- I. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- II. The project proponent shall submit monthly summary report of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- III. Adhere to 'Zero Liquid Discharge'.
- IV. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- V. The treated water from STP shall be used for gardening and spraying of roads.
- VI. The project proponent shall practice rainwater harvesting to maximum possible extent, rain water therefore can be conserved within the plant.
- VII. PP shall be ensured that BOD level shall be maintained upto 3.0 mg/l in the proposed STP, proposal for filter press.
- VIII. Permission of CGWB shall be obtained for drawl of ground water.
- IX. A storage pond area of 5400 CuM of capacity is being used for rain water collection area. the water being reused in the process.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 19 दिसम्बर 2023

- X. 2 nos of Rain water Harvesting pond of area of 7200 CuM have already been constructed for harvesting rainwater from roof top of building/shade and reuse in the process.
- XI. Total 12000 – 12500 m³ of rain water will be harvested and re-used in the process from FY25

D. Noise monitoring and prevention

- I. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- II. 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.

E. Energy Conservation measures

- I. Solar Power utilization will be 30 % of total power consumption in the project.
- II. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- III. Practice hot charging of slabs and billets/blooms as far as possible.
- IV. Ensure installation of regenerative type burners on all reheating furnaces.
- V. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- VI. For this project Electrical Power 2500 KVA shall be met by Madhya Pradesh Electricity Board (MPEB).
- VII. Provide the project proponent for LED lights in their offices and residential areas.
- VIII. No DG Set is proposed for this project. So, there is no emission gaseous emission.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 19 दिसम्बर 2023

F. Waste management

- I. Fly Ash generated from process (if any) shall be managed and disposed as per the provisions of Flyash Notification as ammended.
- II. Any soild waste from process such as furnace Slag produced during process which shall be managed through installed iron recovery unit from slag and the recovered iron is being used with scrap to charge in induction furnace. The remaining part is being used for civil work & bricks manufacturing after TCLP test and approval from the MP Pollution Control Board.
- III. The waste/spent oil & other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- IV. Used refractories shall be recycled as far as possible.
- V. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces.

G. Green Belt

- I. Green belt shall be developed around 2.68 ha (i.e. 33%) is green belt area (existing and proposed) (2000 existing plantation + 4500 proposed plantation = 6500 total) with following plantation scheme and species :

Under proposed plantation program above 6 ft. height saplings will be planted within two years in coming Monsoon (after receipt of EC) whereas survival rate (80%) shall be maintained in subsequent years. Indigenous and broad leaf species for greenbelt development i.e. Karanj, Umber, Neem, Jarul, Maulsari, Amaltas, Shisam, Jamun, Karanj, Simul, Kadam Tacoma, Bel, etc. will be preferred.
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Total Plantation 6500

- II. The greenbelt shall inter alia cover the entire periphery of the plant with minimum three row plantation towards the road and village side..
- III. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

H. Public hearing and Human health issues

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 19 दिसम्बर 2023

- I. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- II. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- III. Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- IV. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

I. EMP& Corporate Environment Responsibility

- I. In the proposed EMP, Rs. 1000.00 Lakh as capital cost for the project and Rs. 240.00 Lakh /year has proposed as recurring expenses.
- II. Under CER Project Proponent has proposed Rs. 120 Lakh proposed. The activities are given below:-

SI.	PHYSICAL STATUS	Yr. - 1	Yr. - 2	Yr. - 3	Yr. - 4	Yr. - 5	TOTAL
EXPENSES UNDER MEDICAL FACILITIES							
1	Organising Medical Camp / eye checking camp (3 nos in a year) at village Bagdan and Village Kali Billod	2.0	2.0	2.0	2.0	2.0	10
2	Providing health awareness sessions at villages/ schools of village Bagdan and Village Kali Billod	0.5	0.5	0.5	0.5	0.5	2.5
3	Providing basic life support ambulance, mobile medical van at PHC Pithampur	0	0	10	0	0	10
EXPENSES UNDER EDUCATION FACILITIES							
1	Scholarship to school / college students	2.5	2.5	2.5	2.5	2.5	12.5
2	Skill development for local Govt. ITI and Career counselling	1	1	1	1	1	5

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 19 दिसम्बर 2023

SI.	PHYSICAL STATUS	Yr. - 1	Yr. - 2	Yr. - 3	Yr. - 4	Yr. - 5	TOTAL
	sessions through experts						
3	Conducting technical training sessions at schools/colleges	0.5	0.5	0.5	0.5	0.5	2.5
4	Safety and Environment awareness sessions at schools/colleges	0.50	0.25	0.25	0.25	0.25	1.50
EXPENSES UNDER INFRASTRUCTURE FACILITIES							
1.	Providing Drinking water Facility at Schools of Bagdanand Kali Bilod Village in collaboration with central TSL CSR team	10	2	5	2	5	24
2.	Rain Water Harvesting Structure / Pond for collection of Rain water at nearby villages	2	2	2	2	2	10
3.	Toilet Construction , preferably at Girls Schools at village Bagdan and Village Kali Billod	0	5	0	0	5	10
EXPENSES UNDER ENVIRONMENT							
1.	Study and implementation of present bird population, its diversity including vulture and Habitat improvement program.	3	2	2	2	2	11
2.	Tree plantation outside plant premises/villages	1.5	1.25	1.25	1.25	1.25	6.5
3.	Safety & Environment awareness sessions by experts to community around, schools/colleges	1.5	1.5	1.5	1.5	1.5	7.5
4.	Yoga and meditation camp will be organized and trainer will be appointed, necessary hall will be	3	1	1	1	1	7

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 19 दिसम्बर 2023

SI.	PHYSICAL STATUS	Yr. - 1	Yr. - 2	Yr. - 3	Yr. - 4	Yr. - 5	TOTAL
	provided.						
	Total – Year wise	28	21.5	29.5	16.5	24.5	120

- III. 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.
- IV. The company shall have a well laid down environmental policy duly approve 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.
- V. 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.
- VI. 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.
- VII. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- VIII. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 19 दिसम्बर 2023

J. Miscellaneous

- I. For Fire Protection System, fire water pumps of 5 H.P. Capacity shall be provided by PP.
- II. AC motor driven fire water pumps for hydrant, medium velocity water spray system and foam system and Jackey pump 1 no. (AC motor driven) for maintaining pressure shall be provided.
- III. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- IV. The project authorities must strictly adhere to the stipulations made by the MP Pollution Control Board and the State Government.
- V. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- VI. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- VII. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- VIII. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 19 दिसम्बर 2023

2. Case No 10744/2023 Ms. Sonia Khare, Lessee, Ward No. 17, Ekta Colony, Behind Gol Quarters, District-Tikamgarh (MP)-472001, Prior Environment Clearance for Badmadai Ugad Stone Mine in an area of 2.00 ha. (Stone-5000, M-Sand-25000 cum per year) (Khasra No. 266), Village –Badmadai Ugad, Tehsil –Badagaon Dhasan Tikamgarh (MP)

प्रस्तावित खदान बी-2 श्रेणी के अंतर्गत का है, जिसमें आज दिनांक 19/12/2023 को परियोजना प्रस्तावक सोनिया खरे के प्रतिनिधि एवं उनके पर्यावरणीय सलाहकार श्री अमर सिंह यादव, मेसर्स एसीरीज इंनवायरोटेक इंडिया प्रा. लि. लखनऊ उपस्थित हुए और उनके द्वारा समिति के समक्ष प्रस्तुतीकरण किया गया ।

परियोजना विवरण	परियोजना प्रस्तावक द्वारा प्रस्तुत दस्तावेज	
परियोजना प्रस्तावक, परियोजना / कम्पनी का नाम व पता	SONIA KHARE, LEESSEE, WARD NO. 17, EKTA COLONY, BEHIND GOL QUARTER, DISTRICT- TIKAMGARH (M.P.)	
खसरा नं./ क्षेत्रफल (सरकारी/निजी)	266 (सरकारी –नॉन फॉरेस्ट लैंड)	2.00 hectare.
स्थल	Village –Badmadai Ugad, Tehsil –Badagaon Dhasan, District-Tikamgarh (M.P.)	
लीज स्वीकृति	कार्यालय कलेक्टर (खनिज शाखा) जिला टीकमगढ़ के पत्र क्रमांक 570 दिनांक 10/07/2023 के द्वारा स्वीकृत ।	
ब्लास्टिंग/रॉक ब्रेकर	अनुमोदित खनन योजना अनुसार ब्लास्टिंग प्रस्तावित है ।	
प्रकरण की स्थिति	नया प्रोजेक्ट ।	
उत्पादन क्षमता	परियोजना प्रस्तावक द्वारा पत्थर-5,000 घनमीटर/वर्ष एवं एम सैंड-25,000 घनमीटर/वर्ष हेतु आवेदन किया गया है और अनुमोदित खनन योजना अनुसार पत्थर-5,000 घनमीटर/वर्ष एवं एम सैंड-25,000 घनमीटर/वर्ष है ।	
500 मीटर की परिधि में अन्य खदानें	कार्यालय कलेक्टर (खनिज शाखा) जिला टीकमगढ़ के एकल प्रमाण-पत्र क्रमांक 697 दिनांक 15/09/2023 अनुसार 500 मीटर की परिधि में अन्य कोई खदान संचालित/स्वीकृत नहीं है, अतः प्रकरण बी-2 श्रेणी का है ।	
वन मण्डलाधिकारी की अनापत्ति	कार्यालय कलेक्टर (खनिज शाखा) जिला टीकमगढ़ के एकल प्रमाण-पत्र क्रमांक 697 दिनांक 15/09/2023 अनुसार 10 किलोमीटर की परिधि में नेशनल पार्क/अभ्यारण्य/ईको सेंसेटिव जोन जैव विविधता क्षेत्र एवं 250 मीटर में वन क्षेत्र स्थित नहीं है ।	
तहसीलदार की	कार्यालय कलेक्टर (खनिज शाखा) जिला टीकमगढ़ के एकल प्रमाण-पत्र	

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 19 दिसम्बर 2023

अनापत्ति	क्रमांक 697 दिनांक 15/09/2023 अनुसार 500 मीटर की परिधि में नहीं है ।
ग्राम सभा/ ग्राम पंचायत की अनापत्ति	ग्राम पंचायत बड़मडई खास जिला टीकमगढ़ के ठहराव प्रस्ताव क्रमांक-1 दिनांक 14/04/2023 अनुसार प्रस्तावित स्थल पर खनन् कार्य का प्रस्ताव पारित ।
वृक्षों की वर्तमान स्थिति	खदान क्षेत्र में कुछ पेड है, परियोजना प्रस्तावक द्वारा अवगत कराया गया कि जिनमें से 12 पेड काटा जाना प्रस्तावित है एवं 120 अतिरिक्त पेड लगाये जाने का प्रस्ताव दिया गया है।
गूगल इमेज अनुसार वर्तमान स्थिति	परियोजना प्रस्तावक द्वारा अवगत कराया गया कि पश्चिम दिशा 100 मीटर पर स्टॉप डेम स्थित होने के कारण 100 मीटर का गैर खनन् क्षेत्र छोड़ा जाने का प्रस्ताव दिया गया है।
जिला सर्वेक्षण रिपोर्ट की स्थिति	कार्यालय कलेक्टर (खनिज शाखा) जिला टीकमगढ़ ने पत्र क्रमांक 823 दिनांक 23/09/2023 के द्वारा सूचित किया है कि उक्त खदान को आगामी नवीन डी.एस.आर. में शामिल कर लिया जावेगा । समिति ने चर्चा उपरांत निर्णय लिया कि राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण मध्यप्रदेश की 739वीं बैठक दिनांक 29/07/22 (प्रकरण में 9261/2022 – जारी पत्र क्रमांक 1306 दिनांक 04/08/22) में लिए गए निर्णय के परिप्रेक्ष्य में इस प्रकरण को भी पर्यावरणीय संवेदनशीलता के दृष्टिगत परीक्षण कर पर्यावरणीय स्वीकृति हेतु सिया को अनुशंसित किया जाये ।

परियोजना प्रस्तावक द्वारा दिए गए प्रस्तुतीकरण, पर्यावरण प्रबंधन योजना एवं अन्य प्रस्तुत की गई जानकारी संतोषजनक एवं स्वीकार्य योग्य होने से समिति द्वारा विशिष्ट शर्तों एवं स्टैण्डर्ड शर्तों संलग्नक-ए अनुसार निम्नानुसार पूर्व पर्यावरणीय स्वीकृति जारी करने की अनुशंसा करती है :—

1. अनुमोदित खनन् योजना अनुसार अधिकतम् उत्पादन क्षमता पत्थर-5,000 घनमीटर/वर्ष एवं एम सेंड-25,000 घनमीटर/वर्ष ।
2. प्रस्तावित क़शर एवं एम-सेंड प्लांट हेतु उपयुक्त वायु प्रदूषणरोधी उपकरण एवं स्लरी प्रबंधन योजना को लागू करने के पश्चात् ही कार्य प्रारम्भ किया जा सकेगा ।
3. पर्यावरण प्रबंधन योजना मद में कैपीटल राशि रु. 14.09 लाख एवं रिक्रिंग राशि रु. 03.11 लाख प्रति वर्ष ।
4. सी.ई.आर मद में निम्नानुसार राशि रु. 0.60 लाख तथा सी.ई.आर. में प्रस्तावित सभी कार्य आगामी 01 वर्ष में पूर्ण किये जाये :—

सी.ई.आर. मद से प्रस्तावित गतिविधि	राशि(रु. में)
शासकीय प्राथमिक स्कूल बड़मडई खास में हैन्डपम्प का निर्माण (बोरिंग कराना) एवं फर्नीचर (बीस नग	60,000

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 19 दिसम्बर 2023

बेंच एवं डेस्क)

- निम्नानुसार वृक्षारोपण कार्यक्रम अनुसार (सतत सिंचाई, 3 वर्षों तक मृत पौधों का बदलाव तथा खनन अवधि तक रख-रखाव के साथ) कम से कम 2520 वृक्षों का वृक्षारोपण :—

कं.	वृक्षारोपण के लिए नियत स्थान	पौधों की प्रजातियाँ	मात्रा (संख्या में)
1	बैरियर जोन	नीम, बॉस, करंज, आम, सीताफल, खमेर, एवं अन्य स्थानीय प्रजातियाँ	1000
2	परिवहन मार्ग	कदम्ब, कचनार, चिरोल, नीम, पीपल, आम एवं अन्य स्थानीय प्रजातियाँ ट्री गार्ड के साथ	100
3	नॉन माइनिंग जोन में	कदम्ब, कचनार, चिरोल, नीम, पीपल, आम, बॉस, एवं अन्य स्थानीय प्रजातियाँ ट्री गार्ड के साथ	1000
	शास. अंकुर योजना के तहत ग्रामवासियों में वितरण हेतु	इमली, आवंला, नीबू, बेल, आम, जामुन, कटहल, मुनगा, एवं अन्य स्थानीय प्रजातियाँ।	420
<p>✓ वृक्षों का रोपण एवं वितरण प्रथम वर्ष में पौधों का रख-रखाव स्वयं/ग्राम पंचायत/स्थानीय वन समिति /स्थानीय पंजीकृत स्वयं सेवी संस्था/सेल्फ हेल्प ग्रुप (SHG) के द्वारा खनन अवधि तक कराया जायेगा।</p> <p>✓ प्रस्तावित परियोजना में किसी भी पेड़ को काटा/उखाड़ा नहीं जायेगा।</p> <p>✓ एक पंक्ति से दूसरी पंक्ति में पौधे STAGGRED (आड़े-तिरछे) लगाये जायेंगे।</p> <p>टीप : वृक्षारोपण, बीजारोपण एवं रख-रखाव, मौके पर स्थल की उपलब्धता के अनुसार किया जायेगा एवं खदान क्षेत्र के आस पास पौधरोपण हेतु जगह उपलब्धता लंबाई एवं चौड़ाई में नहीं होने की स्थिति में नदी के जल ग्रहण क्षेत्र में/ग्रामीण स्कूल/पुलिस थाना/आंगनवाड़ी केंद्र/तहसील कार्यालय/ अन्य शासकीय भूमि, विभाग की सहमति पर पौधरोपण एवं रख - रखाव किया जावेगा। परिवहन मार्ग या अन्य स्थलो पर स्थनीय परिस्थितियों के कारण पर रोपण संभव न होने की स्थिति में नदी क्षेत्र से लगे ग्रामीणों को फलदार, बॉस पौधे प्रदाय किये जावेंगे तथा नदी क्षेत्र से लगे कृषकों को प्राथमिकता दी जावेगी तथा पौधारोपण की शर्त अनुसार संख्या की पूर्ती की जा सकेगी।</p>			

3- Case No 9641/2023 Shri Vijay Pratap Singh Kushwah S/o Satendra Pratap Singh Kushwah, Partner, M/s Gwalior Stone Industries, 201, Millenium Plaza, Govindpuri, Govindpuru University Road, (MP)-474011, Prior Environment Clearance for Khedaviran Quartz and Silica Sand Mine in an area of 05.360 ha. (100000 Cum per annum) (Khasra No. 141), Village- Khedaviran, Tehsil-Dabra, District-Gwalior (MP). EIA .

This is case of Quartz and Silica Sand Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 141), Village- Khedaviran, Tehsil-

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 19 दिसम्बर 2023

Dabra, District-Gwalior (MP) 05.360 Ha. The project requires prior EC before commencement of any activity at site.

प्रकरण में परीक्षण में पाया गया कि कार्यालय कलेक्टर (खनिज शाखा) एकल प्रमाण-पत्र क्रमांक 12409 दिनांक 21/12/2022 अनुसार प्रस्तावित खदान के 500 मीटर की परिधि में 01 अन्य खदान स्वीकृत/संचालित होने की जानकारी दी गई है जिनका कुल रकबा 5.0 हे. से अधिक होता है, अतः प्रश्नाधीन प्रकरण बी-1 श्रेणी के अंतर्गत आता है। अतः समिति ने 624वीं बैठक दिनांक 26/02/2023 को प्रस्तुत प्रकरण में टॉर अनुशंसित किया था।

आज दिनांक 19/12/23 को परियोजना प्रस्तावक श्री विजय प्रताप सिंह कुशवाहा (ऑनलाईन) और उनकी ओर से पर्यावरण सलाहकार श्री अमर सिंह यादव, मे0. ऐसीरीज इंवारेटेक इंडिया प्रा. लि. लखनऊ (उ.प्र.) उपस्थित हुए।

परियोजना प्रस्तावक द्वारा माइन प्लॉन के अक्षांश-देशांश के आधार पर गूगल इमेज अनुसार खदान का सम्पूर्ण भाग पहाड़ पर है जो कि समीपस्थ भूमि से लगभग 44 मी. की ऊंचाई पर है, एवं खनन क्षेत्र के पूर्व एवं पश्चिम दिशा में खदान के अंदर से एवं लीज बांझूड़ी से लगा हुआ एक कच्चा रोड निकल रहा है अतः इस संबंध में परियोजना प्रस्तावक ने अवगत कराया कि इनकी संरक्षण योजना की दृष्टि से खनन क्षेत्र के बायें ओर का क्षेत्र, जो कि घाटी के रूप में है, को छोड़कर खनन कार्य किया जावेगा। उपरोक्त अनुसार क्षेत्र छोड़ने के पश्चात् लगभग 3.5 हेक्टेयर भूमि खनन हेतु उपलब्ध रहेगी, जिससे प्रस्तावित मात्रा में खनिज का खनन किया जा सकेगा। परियोजना प्रस्तावक द्वारा अवगत कराया गया कि जनसुनवाई में रोजगार, वृक्षारोपण आदि सुझाव प्राप्त हुये थे जिन्हे ई.एम.पी. एवं सीईआर में शामिल कर लिया गया है।

परियोजना प्रस्तावक द्वारा प्रस्तुत की गई ई.आई.ए. रिपोर्ट एवं ई.एम.पी. की समीक्षा समिति द्वारा की गई। परियोजना के मुख्य बिन्दु निम्नानुसार है :-

प्रस्तुतीकरण के उपरांत परियोजना प्रस्तावक द्वारा प्रस्तुत ई.एम.पी. का मान्य करते हुए निम्न विशेष शर्तों के साथ प्रकरण को पर्यावरण स्वीकृति दी जाने की अनुशंसा की जाती है।

1. अनुमोदित खनन योजना अनुसार अधिकतम उत्पादन क्षमता पत्थर-10,000 घनमीटर/वर्ष ।
2. पर्यावरण दृष्टि से खनन क्षेत्र के बायें ओर का क्षेत्र, जो कि घाटी के रूप में है, को छोड़कर खनन कार्य किया जावे। उपरोक्त अनुसार क्षेत्र छोड़ने के पश्चात् लगभग 3.5 हेक्टेयर भूमि खनन हेतु उपलब्ध रहेगी, जिससे प्रस्तावित मात्रा में खनिज का खनन किया जा सकेगा।
3. परियोजना प्रस्तावक के अनुसार लीज क्षेत्र में केशर प्लान्ट/ एम.सेड प्लांट प्रस्तावित नहीं है, अतः लीज क्षेत्र में केशर प्लान्ट/एम.सेड प्लांट स्थापित करने की अनुमति नहीं दी जा सकेगी।
4. पर्यावरण प्रबंधन योजना मद में केपीटल राशि रु. 24.76 लाख एवं रिकरिंग राशि रु. 06.62 लाख प्रति वर्ष ।
5. सी.ई.आर मद में निम्नानुसार राशि रु 0.70 लाख तथा सी.ई.आर. में प्रस्तावित सभी कार्य आगामी 01 वर्ष में पूर्ण किये जाये :-


704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 19 दिसम्बर 2023


सी.इ.आर. मद से प्रस्तावित गतिविधि	राशि (रु. में)
ग्राम पुट्टी के प्राथमिक स्कूल के शिक्षक पालक संघ के खाते में परियोजना प्रस्तावक द्वारा भू प्रवेश के तीन महीने के अंदर राशि जमा करवाया जावेगा ।	70,000 /—

2. निम्नानुसार वृक्षारोपण कार्यक्रम अनुसार (सतत् सिंचाई, 5 वर्ष तक मृत पौधों का बदलाव तथा खनन अवधि तक रख-रखाव के साथ) कम से कम 6450 वृक्षों का वृक्षारोपण :-

कं.	वृक्षारोपण हेतु प्रस्तावित स्थान	पौधों की प्रजातियाँ	मात्रा (संख्या में)
1	बैरियर जोन	इमली, कटहल, आम, अमरुद, बेल, करधई , अंजन एवं अन्य फलदार स्थानीय प्रजातियाँ	1300
2	परिवहन मार्ग	नीम, पीपल, सेमल, चिरौल, करंज, एवं अन्य स्थानीय प्रजातियाँ	120
3	शुक्लहारी, पुट्टी, खेड़ा गांवों में ग्रामवासियों में वितरण हेतु	बेल, इमली, आंवला, कटहल, आम, अमरुद, सीता अशोक मुनगा इत्यादि ।	4500
4	शासकीय उच्चतर माध्यमिक विद्यालय शुक्लहारी में वितरण हेतु	कदंब, अमलतास, अशोक, नीम, पुतरंजीवा, मोलश्री, गुलमोहर इत्यादि ।	30
5	गैर-खनन क्षेत्र में	इमली, कटहल, आम, बरगद अमरुद, बेल, जामुन एवं अन्य फलदार स्थानीय प्रजातियाँ,	500

उपरोक्तानुसार वृक्षारोपण प्रथम वर्ष में किया जाये एवं 03 वर्ष तक उन पौधों का रख-रखाव / मृत पौधों का बदलाव खनन अवधि तक किया जाये । गरलेण्ड ड्रेन तथा सेटलिंग टैंक के बंड पर स्थानीय बीज बोवाई कर उनका संरक्षण किया जाना । परियोजना प्रस्तावक ग्रामीणों में पौधों का वितरण के समय गाँव का नाम, लाभान्वित व्यक्ति का नाम एवं प्रजाति का विवरण देते हुए पर्यावरणीय स्वीकृति के पालन प्रतिवेदन में शामिल करेंगे ।


(चंद्र मोहन ठाकुर)
सदस्य सचिव


(डॉ. पी.सी. दुबे)
अध्यक्ष

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 19 दिसम्बर 2023

Following standard conditions shall be applicable for the mining projects of minor mineral in addition to the specific conditions and cases appraised for grant of TOR:

Annexure- 'A'

Standard conditions applicable to Stone/Murum and Soil quarries:

1. Mining should be carried out as per the submitted land use plan and approved mine plan. The regulations of danger zone (500 meters) prescribed by Directorate General of Mines safety shall also be complied compulsorily and necessary measures should be taken to minimize the impact on environment.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars and fenced from all around the site. Necessary safety signage & caution boards shall be displayed at mine site.
3. Arrangements for overhead sprinklers with solar pumps / water tankers should be provided for dust suppression at the exit of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded along with annual record of water consumed in sprinkling during Summer (February to May/June) and winter session (October to January) separately.
4. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
5. Mineral evacuation road shall be made pucca (WBM/black top) by PP.
6. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
7. Crusher with inbuilt APCD & water sprinkling system shall be installed minimum 100 meters away from the road and 500 meters away from the habitations only after the permissions of MP Pollution Control Board with atleast 04 meters high wind breaking wall of suitable material to avoid fugitive emissions.
8. Working height of the loading machines shall be compatible with bench configuration.
9. Slurry Mixed Explosive (SME) shall be used instead of solid cartridge.
10. The OB shall be reutilized for maintenance of road. PP shall bound to compliance the final closure plan as approved by the IBM.
11. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
12. Six monthly occupational health surveys of workers for Cardio-vascular & Pulmonary health, vital parameters as prescribed by concerned regulatory authority shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.
13. A separate bank account should be maintained for all the expenses made in the EMP and CER activities by PP for financial accountability and these details should be provided in Annual Environmental Statement. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
14. To avoid vibration, no overcharging shall be carried out during blasting and muffle blasting shall be adopted. Blasting shall be carried out through certified blaster only and no explosive will be stored at mine site without permission from the competent authority.
15. Mine water should not be discharged from the lease and be used for sprinkling & plantations. For surface runoff and storm water garland drains and settling tanks (SS pattern) of suitable sizes shall be provided.
16. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
17. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
18. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक

दिनांक 19 दिसम्बर 2023

19. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
20. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
21. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
22. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
23. All the mines where production is > 50,000 cum/year, PP shall develop its own website to display various mining related activities proposed in EMP & CER along with budgetary allocations. All the six monthly progress report shall also be uploads on this website along with MoEF&CC & SEIAA, MP with relevant photographs of various activities such as garland drains, settling tanks, plantation, water sprinkling arrangements, transportation & haul road etc. PP or Mine Manager shall be made responsible for its maintenance & regular updation.
24. All the soil queries, the maximum permitted depth shall not exceed 02 meters below general ground level & other provisions laid down in MoEF&CC OM No. L-11011/47/2011-IA.II(M) dated 24/06/2013.
25. The mining lease holders shall after ceasing mining operation, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Moreover, a separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M, of MoEF&CC issued vide letter F.No. 22-34/2018-IA. III, dated 16/01/2020.
26. The project proponent shall follow the mitigation measures provided in MoEF&CCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
27. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
28. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
29. A display board (in hindi) with following details of the project is mandatory at the entry to the mine.
 - a. Lease owner's Name, Contact details etc.
 - b. Mining Lease area of the project (in ha.) with latitude and longitude.
 - c. Length, breadth, sanctioned depth of mine and mining time.
 - d. Sanctioned Production capacity of the project as per EC and Consent of MPPCB.
 - e. Method of mining (Manual/Semi Mechanised) and Blasting or Non-blasting.
 - f. Plantation and CER activities.
30. Dense plantation/ wood lot shall be carryout in the 7.5 meters periphery/barrier zone of the lease through concern CCF (social forestry) or concerned DFO or any other suitable agency and on mineral evacuation road & common area in the village through any suitable Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
31. Entire plantation proposed in barrier zone of lease area shall be carried out as per submitted plantation scheme and along the fencing seed sowing of Neem, Babool, Safed Castor etc shall also be carried out.
32. Top soil shall be simultaneously used for the plantation within the lease area and no OB/dump shall be stacked outside the lease area. PP should take-up entire plantation activity within initial three years of mining operations and shall maintain them for entire mine life including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations. PP shall explore the possibility for plantation in adjoining forest land in consultation with concerned DFO and commensurate budget shall be transferred for plantation to DFO.
33. Local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on degraded forest land through forest department or on other community land available for grassland and fodder development through Gram Panchayat in concerned village and handed over to Gram Panchayat after lease period.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 19 दिसम्बर 2023

34. Before onset of monsoon season as per submitted plantation scheme fruit bearing species preferably of fodder / native shall be distributed in nearby villagers to promote plantation and shall be procured from social forestry nursery/ Government Horticulture nursery. This activity shall be carried out under Govt. of Madhya Pradesh “ANKUR YOJNA” by registering individual villagers on “Vayudoot app”. Where ever Aushadhi Vatika (Medicinal Garden) is proposed by PP, a minimum of 50 saplings be planted considering 80% survival with proper protection measures in School or Aganwadi premises.
35. Adequate provisions of water for irrigating plantation shall be made by PP.
36. Activities proposed under CER should be based upon outcome of public hearing in category for B-1 projects. However in case of B-2 projects, CER shall be proposed based upon local need assessment and Gram Panchayat Annual Action Plan.

Annexure- ‘B’

Standard conditions applicable for the Sand Mine Quarries*

1. District Authority should annually record the deposition of sand in the lease area (at an interval of 100 meters for leases 10 ha or > 10.00 ha and at an interval of 50 meters for leases < 10 ha.) before monsoon & in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority shall allow lease holder to excavate only the replenished quantity of sand in the subsequent year.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars. Necessary safety signage & caution boards shall be displayed at mine site.
3. Arrangements for overhead sprinklers with solar pumps / water tankers should be provided for dust suppression at the exit of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
4. Only registered vehicles/tractor trolleys with GPS which are having the necessary registration and permission for the aforesaid purpose under the Motor Vehicle Act and also insurance coverage for the same shall alone be used for said purpose.
5. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
6. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.
7. Sand and gravel shall not be extracted up to a distance of 1 kilometer (1Km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.
8. Mining depth should be restricted to 3 meters or water level, whichever is less and distance from the bank should be 1/4th or river width and should not be less than 7.5 meters. No in-stream mining is allowed. Established water conveyance channels should not be relocated, straightened, or modified.
9. Demarcation of mining area with pillars and geo-referencing should be done prior to the start of mining.
10. PP shall carry out independent environmental audit atleast once in a year by reputed third party entity and report of such audit be placed on public domain such audits be placed on public domain through website developed for public interface along with photographs of work done w.r.t. EMP as well as CER.
11. No Mining shall be carried out during Monsoon season.
12. The mining shall be carried out strictly as per the approved mine plan and in accordance with the Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by the MoEF&CC ensuring that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
13. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
14. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
15. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक

दिनांक 19 दिसम्बर 2023

16. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
17. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights. All these facilities such as rest shelters, site office etc. Shall be removed from site after the expiry of the lease period.
18. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M, of MoEF&CC issued vide letter F.No. 22-34/2018-IA. III, dated 16/01/2020 and these details should be provided in Annual Environmental Statement.
19. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
20. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
21. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
22. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area.
23. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
24. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
25. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
26. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.
27. The project proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
28. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
29. A display board with following details of the project is mandatory at the entry to the mine.
 - g. Lease owner's Name, Contact details etc.
 - h. Mining Lease area of the project (in ha.) with latitude and longitude.
 - i. Length, breadth and sanctioned depth of mine.
 - j. Minable Potential of sand mine.
 - k. Sanctioned Production capacity of the project as per EC and Consent of MPPCB.
 - l. Method of mining (Manual/Semi Mechanised)
30. Following conditions must be implemented by PP in case of sand mining as per NGT (CZ) order dated 19/10/2020 in OA NO. 66/2020 and SEIAA's instruction vide letter No. 5084 dated 09/12/2020.
 - i. The Licensee must use minimum number of poclains and it should not be more than two in the project site.
 - ii. The District Administration should assess the site for Environmental impact at the end of first year to permit the continuation of the operation.
 - iii. The ultimate working depth shall be 01 m from the present natural river bed level and the thickness of the sand available shall be more than 03 m the proposed quarry site.
 - iv. The sand quarrying shall not be carried out blow the ground water table under any circumstances. In case, the ground water table occurs within the permitted depth at 01 meter, quarrying operation shall be stopped immediately.
 - v. The sand mining should not disturb in any way the turbidity, velocity and flow pattern of the river water.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 19 दिसम्बर 2023

- vi. After closure of the mining, the licensee shall immediately remove all the sheds put up in the quarry and all the equipments used for operation of sand quarry. The roads/pathways shall be leveled to let the river resume its normal course without any artificial obstruction to the extent possible.
 - vii. The mined out pits to be backfilled where warranted and area should be suitable landscaped to prevent environmental degradation.
 - viii. PP shall adhere to the norms regarding extent and depth of quarry as per approved mining plan. The boundary of the quarry shall be properly demarcated by PP.
31. Species such as Khus Slips and Nagar Motha shall be planted on the river banks for bank stabilization and to check soil erosion while on mineral evacuation road & common area in the village through any suitable Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
 32. Top soil shall be simultaneously used for the plantation within the lease area and no OB/dump shall be stacked outside the lease area. PP should take-up entire plantation activity within initial three years of mining operations and shall maintain them for entire mine life including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations. PP shall explore the possibility for plantation in adjoining forest land in consultation with concerned DFO and commensurate budget shall be transferred for plantation to DFO.
 33. Local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on degraded forest land through forest department or on other community land available for grassland and fodder development through Gram Panchayat in concerned village and handed over to Gram Panchayat after lease period.
 34. During initial three years before onset of monsoon season, minimum 100 saplings or maximum as per submitted plantation scheme and subsequently approved by the SEAC of fodder / native fruit bearing species shall be distributed in nearby villagers to promote plantation and shall be procured from social forestry nursery/ Government Horticulture nursery. This activity shall be carried out under Govt. of Madhya Pradesh “ANKUR YOJNA” by registering individual villagers on “Vayudoot app”. Where ever Aushadhi Vatika (Medicinal Garden) is proposed by PP, a minimum of 50 saplings be planted considering 80% survival with proper protection measures in School or Aganwadi premises.
 35. Adequate provisions of water for irrigating plantation shall be made by PP.
 36. Activities proposed under CER should be based upon outcome of public hearing in category for B-1 projects. However in case of B-2 projects, CER shall be proposed based upon local need assessment and Gram Panchayat Annual Action Plan.
 37. As per Enforcement and Monitoring Guidelines for Sand Mining 2020 , Page no. 24 Para (r) minimum 7.5 meters (inward) “from the river.....bank” shall be restricted should be followed in verbatim as the para says.
 38. विगत वर्षों में जारी पूर्व पर्यावरण स्वीकृति में एवं वर्तमान में जारी पर्यावरण स्वीकृति में उल्लेखित समस्त शर्तों का पालन मध्यप्रदेश स्टेट माईनिंग कॉर्पोरेशन द्वारा सुनिश्चित किया जायेगा।
 39. पूर्व एवं वर्तमान ई.सी. शर्तों का पालन प्रतिवेदन निर्धारित समयावधि में एम.ओ.ई.एफ. एण्ड सी.सी. तथा एम.पी. सिया, के समक्ष प्रस्तुत किया जायेगा।

Annexure- ‘C’

Standard conditions applicable for the Sand deposits on Agricultural Land/ Khodu Bharu Type Sand Mine Quarries*

1. Mining should be done only to the extent of reclaiming the agricultural land.
2. Only deposited sand is to be removed and no mining/digging below the ground level is allowed.
3. The mining shall be carried out strictly as per the approved mining plan.
4. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars and necessary safety signage & caution boards shall be displayed at mine site.
5. Arrangements for overhead sprinklers with solar pumps / water tankers should be provided for dust suppression at the exit of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक

दिनांक 19 दिसम्बर 2023

6. The mining activity shall be done as per approved mine plan and as per the land use plan submitted by PP.
7. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
8. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.
9. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
10. No Mining shall be carried out during Monsoon season.
11. The mining shall be carried out strictly as per the approved mine plan and in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.
12. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
13. Thick plantation shall be carryout on the banks of the river adjacent to the lease, mineral evacuation road and common area in the village. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
14. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
15. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.
16. A separate bank account should be maintained for all the expenses made in the EMP and CER activities by PP for financial accountability and these details should be provided in Annual Environmental Statement. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
17. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
18. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
19. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area.
20. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
21. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
22. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
23. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M, of MoEF&CC issued vide letter F.No. 22-34/2018-IA. III, dated 16/01/2020.
24. The project proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
25. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
26. A display board with following details of the project is mandatory at the entry to the mine.
 - m. Lease owner's Name, Contact details etc.
 - n. Mining Lease area of the project (in ha.) with latitude and longitude.
 - o. Length, breadth and sanctioned depth of mine.
 - p. Minable Potential of sand mine.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक

दिनांक 19 दिसम्बर 2023

- q. Sanctioned Production capacity of the project as per EC and Consent of MPPCB.
- r. Method of mining (Manual/Semi Mechanised)

27. Species such as Khus Slips and Nagar Motha shall be planted on the nearby river banks for bank stabilization and to check soil erosion while dense plantation/ wood lot shall be carryout in the 7.5 meters periphery/barrier zone of the lease through concern CCF (social forestry) and on mineral evacuation road & common area in the village through any suitable Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
28. Dense plantation shall be carryout in the 7.5 meters periphery/barrier zone of the lease through concern CCF (social forestry) or concerned DFO or any other suitable agency and on mineral evacuation road & common area in the village through any suitable Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
29. Entire plantation proposed in barrier zone of lease area shall be carried out in the first year itself as per submitted plantation scheme.
30. Top soil shall be simultaneously used for the plantation within the lease area and no OB/dump shall be stacked outside the lease area. PP should take-up entire plantation activity within initial three years of mining operations and shall maintain them for entire mine life including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations. PP shall explore the possibility for plantation in adjoining forest land in consultation with concerned DFO and commensurate budget shall be transferred for plantation to DFO.
31. Top soil shall be simultaneously used for the plantation within the lease area and no OB/dump shall be stacked outside the lease area. PP should take-up entire plantation activity within initial three years of mining operations and shall maintain them for entire mine life including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations. Plantation in adjoining forest land shall be carried out through concerned DFO and commensurate budget shall be transferred for plantation to DFO.
32. Local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on degraded forest land through forest department or on other community land available for grassland and fodder development through Gram Panchayat in concerned village and handed over to Gram Panchayat after lease period.
33. During initial three years before onset of monsoon season, minimum 100 saplings or maximum as per submitted plantation scheme and subsequently approved by the SEAC of fodder / native fruit bearing species shall be distributed in nearby villagers to promote plantation and shall be procured from social forestry nursery/ Government Horticulture nursery. This activity shall be carried out under Govt. of Madhya Pradesh “ANKUR YOJNA” by registering individual villagers on “Vayudoot app”. Where ever Aushadhi Vatika (Medicinal Garden) is proposed by PP, a minimum of 50 saplings be planted considering 80% survival with proper protection measures in School or Aganwadi premises.
34. Adequate provisions of water for irrigating plantation shall be made by PP.
35. Activities proposed under CER should be based upon outcome of public hearing in category for B-1 projects. However in case of B-2 projects, CER shall be proposed based upon local need assessment and Gram Panchayat Annual Action Plan.
36. The monitoring of the compliance of the conditions incorporated in the Environmental Clearance issued prior to the State Mining Corporation shall be carried out through the District mining office at District level and compliances be communicated to SEIAA within 06 months.
37. Riparian habitat including vegetative cover on and adjacent to the river bank controls erosion, provide nutrient inputs into the stream and prevent intrusion of pollutants in the stream through runoff. Bank erosion and change of morphology of the river can destroy the riparian vegetative cover should be protected.
38. Demarcation of mining area with pillars and geo-referencing should be done prior to start of mining.
39. The State Mining Corporation shall constitute an Environmental Cell including minimum of three persons qualified in the field to ensure the compliance of EC conditions.
40. The State Mining Corporation shall ensure the compliance of the different provision made in the Sand Mining Management Guidelines-2016 & Enforcement & Monitoring Guidelines for Sand Mining 2020, with Special reference to the para 4.3 and para-8 at para no. 45 of the said Guidelines.
41. Sand and gravel shall not be allowed to be extracted where erosion may occur, such as at the concave bank.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक

दिनांक 19 दिसम्बर 2023

42. The slope of mining area adjacent to agricultural fields should be proper (preferably 45 degree) and adequate gap (minimum 10 feet) be left from adjacement agricultural field to avoid erosion and scouning.
43. In sand mining over other areas apart from river bed replenishment study in the said area be carriedout every year by Mining Officer and subject to availability of sand quantity mining should allowed by Mining Officer during EC period as Sand replacement in such areas are subject to certain conditions and not a regular feature.
44. The top soil in Khodu-Bharu Sand mine shall be stored separately and shall be used for agriculture field only; it should not be washed away during sand washing process.

Annexure- 'D'

General conditions applicable for the granting of TOR

1. The date and duration of carrying out the baseline data collection and monitoring shall be informed to the concerned Regional Officer of the M.P Pollution Control Board.
2. During monitoring, photographs shall be taken as a proof of the activity with latitude & longitude, date, time & place and same shall be attached with the EIA report. A drone video showing various sensitivities of the lease and nearby area shall also be shown during EIA presentation.
3. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
4. An inventory of flora & fauna based on actual ground survey shall be presented.
5. Risk factors with their management plan should be discussed in the EIA report.
6. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
7. The EIA document shall be printed on both sides, as far as possible.
8. All documents should be properly indexed, page numbered.
9. Period/date of data collection should be clearly indicated.
10. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
11. The copy of the letter received from the SEAC prescribing TOR for the project should be attached as an annexure to the final EIA/EMP report.
12. The final EIA/EMP report submitted to the SEIAA must incorporate all issues mentioned in TOR and that raised in Public Hearing with the generic structure as detailed out in the EIA report.
13. Grant of TOR does not mean grant of EC.
14. The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared. If consultant has engaged other laboratory for carrying out the task of monitoring and analysis of pollutants, a representative from laboratory shall also be present to answer the site specific queries.
15. On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MOEF & CC) have been complied with and the data submitted is factually correct.
16. While submitting the EIA/EMP reports, the name of the experts associated with involved in the preparation of these reports and the laboratories through which the samples have been got analyzed should be stated in the report. It shall be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and also have NABL accreditation.
17. All the necessary NOC's duly verified by the competent authority should be annexed.
18. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
19. The EIA report should clearly mention activity wise EMP and CER cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CER cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
20. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक

दिनांक 19 दिसम्बर 2023

21. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
22. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
23. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
24. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006. The issues raised in public hearing shall be properly addressed in the EMP and suitable budgetary allocations shall be made in the EMP and CER based on their nature.
25. Actual measurement of top soil shall be carried out in the lease area at minimum 05 locations and additionally N, P, K and Heavy Metals shall be analyzed in all soil samples. Additionally in one soil sample, pesticides shall also be analyzed.
26. A separate budget in EMP & CER shall be maintained for development and maintenance of grazing land as per the latest O.M, of MoEF&CC issued vide letter F.No. 22-34/2018-IA. III, dated 16/01/2020.
27. PP shall submit biological diversity report stating that there is no adverse impact in- situ and on surrounding area by this project on local flora and fauna's habitat, breeding ground, corridor/ route etc. This report shall be filed annually with six-monthly compliance report.
28. The project proponent shall provide the mitigation measures as per MoEFCC's Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area" with EIA report.
29. LPG gas may be provided for camping labour under "Ujjwala Yojna .
30. In the project where ground water is proposed as water source, the project proponent shall apply to the competent authority such as Central Ground Water Authority (CGWA) as the case may be for obtaining, No Objection Certificate (NOC).
31. Consideration of mining proposals involving violation of the EIA Notification, 2006, the project proponent shall give an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court of India dated 02/08/2017 in WP © No. 114 of 2014 in the matter of Common Cause V/s Union of India & others before grant of TOR/EC. The undertaking inter-alia includes commitment of the PP not to repeat any such violation in future as per MoEF&CC OM No. F.NO. 3-50/2017-IA.III (Pt.) dated 30/05/2018.
32. The mining project proponents involving violations of the EIA Notification, 2006 under the provisions of S.O. 804 (E) dated 14/03/2017 and subsequent amendments for TOR/EC shall give an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. Before grant of TOR/EC the undertaking inter-alia include commitment of the PP not to repeat any such violation of future. In case of violation of above undertaking, the TOR/Environmental Clearance shall be liable to be terminated forthwith.
33. If the allotted land is private land and agricultural practices are being carried out in the nearby area, the effect of mining on agricultural practices shall be studied and discussed in the EIA report with the economic value of agricultural produce for last three years and details of total land holding of the PP in that district.
34. In case of mining on land where the land belongs to Charagah (Grazing) as per P-II form, proposal for development of equal area of land as grazing land shall be submitted with EIA report with its budgetary provisions. This Grazing land can be developed in consultation with DFO or Gram Panchayat of concerned area.
35. Under CER scheme commitments with physical targets shall be included in EIA report for:
 - ✓ Proposal for CER activities based upon commitment made during public hearing and COVID-19 pandemic.
 - ✓ Activities such as solar panels in school, awareness camps for Oral Hygiene, Diabetes and Blood Pressure, works related to plantation (distribution of fruit & fodder bearing trees) vaccination, cattle's health checkup etc. in concerned village shall be proposed.
 - ✓ No fuel wood shall be used as a source of energy by mine workers. Thus proposal for providing solar cookers / LPG gas cylinders under "Ujjwala Yojna" to them who are residing in the nearby villages, shall be considered.
 - ✓ PP's commitment that activities proposed in the CER scheme will be completed within initial 03 years of the project and in the remaining years shall be maintained shall be submitted with EIA report.

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक

दिनांक 19 दिसम्बर 2023

36. Under Plantation Scheme commitments with budgetary allocations shall be included in EIA report for :
- ✓ Comprehensive green belt plan with commitment that entire plantation shall be carried out in the initial three years and will be maintained thereafter with causality replacement. Proposal for distribution of fruit bearing species for nearby villagers shall also be incorporated in the plantation scheme and for which a primary survey for need assessment in concerned village shall be carried out.
 - ✓ Commitment that plantation shall be carried out preferably through Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
 - ✓ Commitment that high density plantation (preferably using “Miyawaki Technique or WALMI technique) shall be developed in 7.5m barrier zone left for plantation through concern CCF (social forestry) or concerned DFO or any other suitable agency.
 - ✓ Commitment that local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on degraded forest land suitable for the purpose through Forest Department/ through Gram Panchayat on suitable community land in the concerned village area.
 - ✓ PP shall explore the possibility for plantation in adjoining forest land in consultation with concerned DFO and commensurate budget shall be transferred for plantation to DFO.
 - ✓ Where ever Aushadhi Vatika (Medicinal Garden) is proposed by PP, minimum 50 saplings be planted considering 80% survival.
 - ✓ Adequate provisions of water for irrigating plantation shall be made by PP.

FOR PROJECTS LOCATED IN SCHEDULED (V) TRIBAL AREA , following should be studied and discussed in EIA Report before Public Hearing as per the instruction of SEIAA vide letter No. 1241 dated 30/07/2018.

37. Detailed analysis by a National Institute of repute of all aspects of the health of the residents of the Schedule Tribal block.
38. Detailed analysis of availability and quality of the drinking water resources available in the block.
39. A study by CPCB of the methodology of disposal of industrial waste from the existing industries in the block, whether it is being done in a manner that mitigate all health and environmental risks.
40. The consent of Gram Sabah of the villages in the area where project is proposed shall be obtained.

खदान क्षेत्र में किये जाने वाले वृक्षारोपण हेतु निर्देश :-

- नोट 1 :-** स्थल विशेष हेतु प्रजातियों के चयन में स्थानीय मृदा के प्रकार, संरचना, गहराई को ध्यान में रखकर रोपण किया जाना चाहिए ।
- नोट 2 :-** विषय विशेषज्ञ, उक्त विषय में रुचि रखने वाले स्थानीय जानकारों से राय ली जाने की सलाह है ।
- नोट 3 :-** पौधों की बढ़त हेतु सड़ी गोबर की खाद, केचुआ खाद, आवश्यक होने पर अच्छी मृदा का उपयोग, समय पर रोपण, पौधों की देख-रेख, मृदा नमी को बनाये रखने हेतु मल्विंग जल-संरचनाओं का निर्माण, निदाई-गुड़ाई, सिंचाई एवं सुरक्षा का पर्याप्त उपाय करना चाहिए ।
- नोट 4 :-** परिवहन मार्ग के किनारे लगाये जाने वाले पेड़ों के चारों ओर ट्री गार्ड होना आवश्यक है । इसी प्रकार स्कूल/ ऑगनवाडी/पंचायत भवन इत्यादि में प्रस्तावित वृक्षारोपणों के चारों ओर सुरक्षा के इंतजाम जैसे फेंसिंग/ट्री गार्ड आवश्यक रूप से प्रस्तावित किये जायें ।
- नोट 5 :-** भू-क्षरण स्थल पाये जाने पर भू-संरक्षण का कार्य (विशेष रूप से वाटर चैनल के किनारे तथा उत्पत्ति स्थान पर) किया जाना चाहिए ।
- नोट 6 :-** रोपित पौधों का मापदंड एवं अन्य कार्य

क्र.	स्थल	ऊँचाई न्यूनतम	गोलाई न्यूनतम
1.	बैरियर जोन/नॉन माईनिंग क्षेत्र	02.5 – 03.0 फिट	03-05 से. मी.
2.	रोड साईड/स्कूल/ ऑगनवाडी	03.5 – 05.5 फिट	05-10 से.मी.
3.	पौधों के चारों ओर निदाई-गुड़ाई, थाला (1.5 मी.गोलाई में) तीन वर्षों तक ।		
4.	आवश्यकतानुसार सिंचाई एवं प्राथमिकता पर जैविक खाद		

704वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक

दिनांक 19 दिसम्बर 2023

नोट 7 :- बीज बुआई एवं अंकुरण पश्चात् देख-रेख –

- स्थानीय स्तर पर बीज संग्रहण एवं गुड़ाई/जुताई उपचार, वर्षा पूर्व रोपण। जामुन, महुआ, नीम, साल बीज का रोपण बीज गिरने के तुरंत (07 दिवस के अंदर) पश्चात् रोपण।
- अंकुरण पश्चात् 4 से 6 पत्तियों आने पर, पौधे के चारों तरफ निदाई-गुड़ाई एवं सड़ी गोबर की खाद डालना।
- बीज रोपण तीन वर्षों तक लगातार पौधों की जीवितता एवं सफलता के आधार पर करना।
- सीड-बाल विधि से भी बीज रोपण किया जा सकता है।

नोट – 8 :- रेत के प्रकरणों में (पौधों की ऊँचाई न्यूनतम 1.5 मीटर)

1	एक पंक्ति से दूसरी पंक्ति की दूरी एवं दूसरी से तीसरी पंक्ति शाकीय पौधे जैसे : खस, घास, अगेव स्थानीय घास बीजप्रजातियाँ।	1.00 से 1.5 मीटर (पंक्ति में पौधों के बीच की दूरी 10 से 15 सेंटीमीटर)
2	4 पंक्ति से 5वीं पंक्ति (वृक्ष प्रजाति)	न्यूनतम दूरी 3 मीटर (पौधों के बीच में दूरी 03 मीटर)
3	6वीं पंक्ति 3.0 से 5.0 मीटर (वृक्ष प्रजाति)	पौधों के बीच में 3 से 5 मीटर

- (चयनित प्रजातियों एवं नदी के किनारों पर भूमि की उपलब्धता को ध्यान में रखकर आवंटित क्षेत्र से बाहरी दिशा में 10 से 15 मीटर की चौड़ाई में हरित पट्टी विकसित किया जाये)
- नोट – 9 :- छठी पंक्ति हेतु पौधों की सुरक्षा अवधि न्यूनतम 3 वर्ष
- जामुन, कहवा, करंज, नीम, पौधों में पौधों की दूरी 2.5 मीटर से 5 मीटर लसोड़ा, करंज, आम, इत्यादि।
- नोट – प्रथम तीन पंक्तियों के पौधों के मध्य में एक वर्षीय औषधि प्रजातियों का बीच छिड़काव।

1	पहली, दूसरी, तीसरी पंक्ति हेतु (स्थानीय घास प्रजातियाँ, खस घास बीजअगेव आदि)	पंक्ति से पंक्ति की दूरी 01 से 10.5 फीट पंक्ति में पौधों से पौधों की दूरी 10 से 15 सेंटीमीटर।
2	स्थानीय झाड़ी प्रजाति के पौधे	01 11.6 फीट
3	चौथी से पाँचवी, छठवीं पंक्ति हेतु बॉस एवं स्थानीय झाड़ी प्रजाति।	पंक्ति की दूरी 2.5 मीटर से 3 मीटर पंक्ति में पौधों की दूरी 3 मीटर से 5 मीटर

- मौसमी नदी के न्यूनतम 05 मीटर तथा पेरिनियल रिवर में न्यूनतम 10मी तक घाटों के किनारे स्थित वृक्षों, झाड़ियों, लताओं को और घास को क्षति नहीं पहुँचाई जायेगी।
- रेत निकासी परिवहन मार्ग निजी भूमि से होकर जाता है तो संबंधित कृषक/कृषको से सहमति पश्चात् ही परिवहन किया जायेगी।
- खदान संचालन शुरू करने के पहले परियोजना प्रस्तावक जिला मत्स्य पालन विभाग अधिकारी का अभिमत प्राप्त करेगा कि खनन क्षेत्र में कोई चतुर्दम ठतममकपदह बमदजमत तो नहीं है और यदि किसी क्षेत्र का संज्ञान होगा तो अनुकूल रोकथाम के उपाय विषय विशेषज्ञ के सुझाव अनुसार अपनाये जायेंगे।