



सत्यमेव जयते

File No.: TOR/29/2024
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Level Expert Appraisal Committee(SEAC),
KERALA)



Dated 19/11/2024



To,

SIBU PETER
SIBU PETER
Edayar, Kannavam P.O, Kannur District, Kerala-670650., KANNUR, KERALA, 670650
mdiknr2020@gmail.com

Subject: Grant of Standard Terms of Reference (ToR) to the proposed Project under the EIA Notification 2006- and as amended thereof-regarding.

Sir/Madam,

This is in reference to your application submitted to SEAC vide proposal number SIA/KL/MIN/499723/2024 dated 14/10/2024 for grant of Terms of Reference (ToR) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) ToR Identification No.	TO24B0108KL5630609N
(ii) File No.	TOR/29/2024
(iii) Clearance Type	Fresh ToR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals Granite (Building Stone) Quarry of M/s Modern Industries, Managing Partner, Mr. Sibü Peter, at Re Survey no.- 180/1B in Village- Kannavam, Taluk- Thalassery, District- Kannur, State- Kerala for lease area 2.6509 ha.
(vii) Name of Project	
(viii) Name of Company/Organization	SIBU PETER
(ix) Location of Project (District, State)	KANNUR, KERALA
(x) Issuing Authority	SEAC
(xii) Applicability of General Conditions	NO

3. The SEAC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after detailed examination hereby decided to grant Standard Terms of

Reference to the instant proposal of **M/s.SIBU PETER** under the provisions of the aforementioned Notification.

4. The brief about products and by products as submitted by the Project proponent in Form-1 (Part A, B) and Standard Terms of Reference are annexed to this letter as Annexure (1).
5. The Ministry reserves the right to stipulate additional TORs, if found necessary.
6. The Standard Terms of Reference (ToR) to the aforementioned project is under provisions of EIA Notification, 2006 and as amended thereof. It does not tantamount to approvals/consent/permissions etc required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
7. The granted letter, all the documents submitted as a part of application viz. Form-1 Part A and Part B are available on PARIVESH portal which can be accessed by scanning the QR Code above.

Copy To

N/A

Annexure 1

Standard Terms of Reference for conducting Environment Impact Assessment Study for Mining of minerals and information to be included in EIA/EMP report

1.

Sr. No.	Terms of Reference
1.1	An EIA-EMP Report shall be prepared for peak capacity (.....MTPA)operation in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
1.2	An EIA-EMP Report would be prepared for peak capacity operation to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.3	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also, providing pillar cordinates and site layout plan. In such cases cumulative impact of mine operation with washery to be assessd and EMP measure to be drawn to the worst scenario
1.4	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.5	Propoer KML file with pin drop and coordinate of mine at 500-1000 m interval be provided
1.6	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries, mines, coal washery and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given. The above details to be furnished in tabular form also

Sr. No.	Terms of Reference																								
1.7	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.																								
1.8	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.																								
1.9	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of rivers/ riverlet system and its respective order. The map should clearly indicate drainage pattern of the catchment area with basin of major rivers. Diversion of drains/ river need elaboration in form of length, quantity and quality of water to be diverted																								
1.10	(Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.																								
1.11	Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.																								
1.12	Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.																								
1.13	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.																								
1.14	<p>Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified. Area under Surface Rights</p> <table border="1" data-bbox="261 1688 1474 1973"> <thead> <tr> <th data-bbox="261 1688 564 1749">S.N ML/Project Land use</th> <th data-bbox="564 1688 804 1749">Area under Surface Rights(ha)</th> <th data-bbox="804 1688 1187 1749">Area Under Mining Rights(ha)</th> <th data-bbox="1187 1688 1474 1749">Area under Both (ha)</th> </tr> </thead> <tbody> <tr> <td data-bbox="261 1749 564 1809">1 Agricultural land</td> <td data-bbox="564 1749 804 1809"></td> <td data-bbox="804 1749 1187 1809"></td> <td data-bbox="1187 1749 1474 1809"></td> </tr> <tr> <td data-bbox="261 1809 564 1848">2 Forest Land</td> <td data-bbox="564 1809 804 1848"></td> <td data-bbox="804 1809 1187 1848"></td> <td data-bbox="1187 1809 1474 1848"></td> </tr> <tr> <td data-bbox="261 1848 564 1886">3 Grazing Land</td> <td data-bbox="564 1848 804 1886"></td> <td data-bbox="804 1848 1187 1886"></td> <td data-bbox="1187 1848 1474 1886"></td> </tr> <tr> <td data-bbox="261 1886 564 1924">4 Settlements</td> <td data-bbox="564 1886 804 1924"></td> <td data-bbox="804 1886 1187 1924"></td> <td data-bbox="1187 1886 1474 1924"></td> </tr> <tr> <td data-bbox="261 1924 564 1973">5 Others (specify)</td> <td data-bbox="564 1924 804 1973"></td> <td data-bbox="804 1924 1187 1973"></td> <td data-bbox="1187 1924 1474 1973"></td> </tr> </tbody> </table>	S.N ML/Project Land use	Area under Surface Rights(ha)	Area Under Mining Rights(ha)	Area under Both (ha)	1 Agricultural land				2 Forest Land				3 Grazing Land				4 Settlements				5 Others (specify)			
S.N ML/Project Land use	Area under Surface Rights(ha)	Area Under Mining Rights(ha)	Area under Both (ha)																						
1 Agricultural land																									
2 Forest Land																									
3 Grazing Land																									
4 Settlements																									
5 Others (specify)																									

Sr. No.	Terms of Reference																		
	<table border="1"> <thead> <tr> <th data-bbox="263 208 320 237">S.N.</th> <th data-bbox="448 208 533 237">Details</th> <th data-bbox="1086 208 1198 237">Area (ha)</th> </tr> </thead> <tbody> <tr> <td data-bbox="263 248 280 277">1</td> <td data-bbox="448 248 564 277">Buildings</td> <td></td> </tr> <tr> <td data-bbox="263 288 280 318">2</td> <td data-bbox="448 288 608 318">Infrastructure</td> <td></td> </tr> <tr> <td data-bbox="263 329 280 358">3</td> <td data-bbox="448 329 523 358">Roads</td> <td></td> </tr> <tr> <td data-bbox="263 369 280 398">4</td> <td data-bbox="448 369 635 398">Others (specify)</td> <td></td> </tr> <tr> <td></td> <td data-bbox="448 409 512 439">Total</td> <td></td> </tr> </tbody> </table>	S.N.	Details	Area (ha)	1	Buildings		2	Infrastructure		3	Roads		4	Others (specify)			Total	
S.N.	Details	Area (ha)																	
1	Buildings																		
2	Infrastructure																		
3	Roads																		
4	Others (specify)																		
	Total																		
1.15	<p>Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.</p>																		
1.16	<p>One-season (other than monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided. The detail of NABL/ MoEF&CC certification of the respective laboratory and NABET accreditation of the consultant to be provided.</p>																		
1.17	<p>Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.</p>																		
1.18	<p>For proper baseline air quality assessment, Wind rose pattern in the area should be reviewed and accordingly location of AAMSQ shall be planned by the collection of air quality data by adequate monitoring stations in the downwind areas. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. In case of expansion, the displayed data of CAAQMS and its comparison with the monitoring data to be provided</p>																		
1.19	<p>A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.</p>																		
1.20	<p>The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data should be provided in EIA/ EMP report also occupational status & economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.</p>																		

Sr. No.	Terms of Reference
1.21	The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.
1.22	Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
1.23	Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted
1.24	Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
1.25	Study on land subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
1.26	Detailed water balance should be provided. The break up of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
1.27	PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs
1.28	PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal. The measures adopted to conserve energy or use of renewable sources shall be explored
1.29	PP to evaluate the green house emission gases from the mine operation/ washery plant and corresponding carbon absorption plan.
1.30	PP shall explore the use of vent gases as generated from under ground Mine for use of energy generation/ in house energy consumption
1.31	Site specific Impact assessment with its mitigation measures, Risk Assessment and Disaster Preparedness and Management Plan should be provided.
1.32	Impact of stowing by using coal washery rejects/ flyash/ bottom ash shall be assessed in term of leachate generation and its characteristics
1.33	Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
1.34	Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be

Sr. No.	Terms of Reference
	given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
1.35	Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
1.36	Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
1.37	The number and efficiency of mobile/static water jet, Fog cannon sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
1.38	Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
1.39	Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre-mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
1.40	Adequate greenbelt nearby areas, coal stock yard and transportaion area of coal shall be provided with details of species selected and survival rate Greenbelt development should be undertaken particularly around the transport route and CHP.
1.41	Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
1.42	Details of R&R. Detailed project specific R&R Plan with data on the existing socio- economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
1.43	CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
1.44	Corporate Environment Responsibility:
1.45	a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
1.46	b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
1.47	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
1.48	d) To have proper checks and balances, the company should have a well laid down system of reporting of

Sr. No.	Terms of Reference																														
	non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.																														
1.49	e) Environment Management Cell and its responsibilities to be clearly spelled out in EIA/ EMP report																														
1.50	f) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.																														
1.51	Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.																														
1.52	Status of any litigations/ court cases filed/pending on the project should be provided.																														
1.53	PP shall submit clarification from PCCF that mine does not fall under corridors of any National Park and Wildlife Sanctuary with certified map showing distance of nearest sanctuary.																														
1.54	Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closure plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.																														
1.55	<p>Details on the Forest Clearance should be given as per the format given:</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Total ML Total</td> <td style="width: 15%;">Date of Extent</td> <td style="width: 15%;">of Balance area for which</td> <td style="width: 15%;">Status of appl For</td> </tr> <tr> <td>Project Area Forest</td> <td>(ha)</td> <td>FC</td> <td>Forest Land</td> <td>FC is yet to be obtained</td> </tr> <tr> <td></td> <td>land (ha)</td> <td></td> <td></td> <td>diversion of forest land</td> </tr> <tr> <td></td> <td>If more than one</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>provide details of each</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>FC</td> <td></td> <td></td> <td></td> </tr> </table>		Total ML Total	Date of Extent	of Balance area for which	Status of appl For	Project Area Forest	(ha)	FC	Forest Land	FC is yet to be obtained		land (ha)			diversion of forest land		If more than one					provide details of each					FC			
	Total ML Total	Date of Extent	of Balance area for which	Status of appl For																											
Project Area Forest	(ha)	FC	Forest Land	FC is yet to be obtained																											
	land (ha)			diversion of forest land																											
	If more than one																														
	provide details of each																														
	FC																														
1.56	In case of expansion of the proposal, the status of the work done as per mining plan and approved mine closure plan shall be detailed in EIA/ EMP report																														
1.57	Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the time bound action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.																														
1.58	PP shall carry out survey through drone highlighting the ground reality for atleast 10 minutes																														
1.59	Detailed Chronology of the project starting from the first lease deed allotted/Block allotment/ Land acquired to its No. of renewals, CTO /CTE with details of no. renewals, previous EC(s) granted details and its compliance details, NOC details from various Govt bodies like Forest NOC(s), CGWA permissions, Power permissions, etc as per the requisites respectively to be furnished in tabular form.																														
1.60	A copy of application submitted for 5 star rating system to Ministry of coal for expansion cases may be provided. Certificate /rating given to project shall be provided with EIA-EMP report																														
1.61	The first page of the EIA/ EMP report must mention the peak capacity production, area, detail of PP, Consultant (NABET accreditation) and Laboratory (NABL / MoEF & CC certification)																														

Sr. No.	Terms of Reference
1.62	The compliances of ToR must be properly cited with respective chapter section and page no in tabular form and also mention sequence of the respective ToR complied within the EIA-EMP report in all the chapter,s section.

Additional Terms of Reference

N/A

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Granite (Building Stone)	Product	85000	MTA	Road	This is a semi mechanized open cast Granite (Building Stone) mining project. It is used in the masonry works for construction purposes along with cement and stone chips. Road construction, ditch filling and embankment constructions are other usage.