



सत्यमेव जयते

File No: 454643/02-IND1/12-2023

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority (SEIAA),
ODISHA)



Dated 27/08/2024



To,

Suman Swain, Proprietor
Prime Industries, Plot No 29 & 32, Rahanja Industrial Estate, IDCO, Rahanja, Rahanja, BHADRAK,
ODISHA, 756111
sumanswain329@gmail.com

Subject: Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application for Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding in respect of project Chrome ore beneficiation plant with throughput capacity of 18,500 TPA within the existing Chrome monolithic unit of M/s Prime Industries in Rahanja Industrial Estate, village Rahanja of Bhadrak District, Odisha submitted to Ministry vide proposal number SIA/OR/IND1/454643/2023 dated 07/12/2023.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO23B0901OR5761880N
(ii) File No.	454643/02-IND1/12-2023
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	2(b) Mineral beneficiation Chrome ore beneficiation plant with throughput capacity of 18,500 TPA within the existing Chrome monolithic unit of M/s Prime Industries in Rahanja Industrial Estate, village Rahanja of Bhadrak District, Odisha
(vii) Name of Project	SUMAN SWAIN
(viii) Name of Company/Organization	BHADRAK, ODISHA
(ix) Location of Project (District, State)	SEIAA, Odisha
(x) Issuing Authority	no
(xii) Applicability of General Conditions	no
(xiii) Applicability of Specific Conditions	no

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the SEAC, Odisha for an appraisal by the State Level Expert Appraisal Committee (SEAC) under the provision of EIA notification 2006 and its subsequent amendments thereto.
4. The above-mentioned proposal has been considered by SEAC in its meeting held on 22.07.2024. The minutes of the meeting and all the project documents as submitted by project proponent are available in the Parivesh portal which can be accessed from the Parivesh portal by scanning the QR Code above.
5. Details of the project along with the salient features of the project as submitted by the project proponent in Form- 1 (Part A and B) and as presented before SEAC are annexed to this EC as Annexure- 2.
6. This proposal conforms to item no. 2(b)- ‘Mineral Beneficiation’ in the schedule of EIA Notification, 2006 as amended time to time, and the proposed project falls under Category B2 as the throughput capacity of the project is \leq 20,000 TPA.
7. The SEAC, after detailed deliberations made by the Project Proponent and the EIA Consultant, in its meeting held on 22.07.2024 under the provisions of EIA Notification 2006 and its subsequent amendments, recommended to issue Terms of References (ToRs) exempting public hearing for undertaking detailed EIA studies, stipulating various conditions(standard & specific).
8. The matter was examined in the State Environment Impact Assessment Authority (SEIAA), Odisha in its 174th meeting held on 14.08.2024, recommendation of SEAC and in accordance with the EIA Notification, 2006 and further amendments thereto. After detailed deliberation in the matter, the Authority decided to issue ToR (Standard & Specific conditions) exempting public hearing for this project for undertaking detailed EIA studies. The standard and specific ToR are attached as Annexure-1.
9. Terms of Reference (ToR) is granted to the project exempting public hearing under the provisions of EIA Notification No. S.O. 1533 (E) dated the 14th September, 2006 of the Government of India in the erstwhile Ministry of Environment and Forests, as amended from time to time for proposed setting up of "Chrome ore beneficiation plant with throughput capacity of 18,500 TPA within the existing Chrome monolithic unit located in Rahanja Industrial Estate, Village- Rahanja, District- Bhadrak by M/s Prime Industries” for undertaking detailed EIA studies with the specific conditions as mentioned below along with standard conditions for preparation of EIA/EMP report for the project as given in Annexure- 1.
10. The SEIAA, Odisha reserves the right to alter /modify the above conditions or stipulate any further condition in the interest of environment protection.
11. This issue with an approval of the Competent Authority.

4.

Copy To

1. Joint Secretary (IA Division), Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for information.
2. Additional Chief Secretary, Forests & Environment Dept., Government of Odisha for information.
3. Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
4. Additional Principal Conservator of Forests, Integrated Regional Office (IRO), Ministry of Environment & Forests, A/3, Chandrasekharpur, Bhubaneswar for information.
5. Regional Director, CGWA, South Eastern Region, Bhujal Bhawan, Khandagiri, Bhubaneswar, Pin-751030.
6. Collector & DM, Bhadrak, District-Bhadrak for Information and necessary action.
7. Guard file for record/Website/Parivesh Portal.

Annexure 1

Standard Terms of Reference for (Mineral beneficiation)

1.

S. No	Terms of Reference
1.1	The alternate sites considered, the relative merits and demerits and the reasons for selecting the proposed site for the Beneficiation Plant should be indicated.
1.2	Details of the technology and process involved for beneficiation should be given. .
1.3	Location of the proposed Plant w.r.t. the source of raw material and mode of transportations of the ore from mines to the beneficiation plant should be justified.
1.4	Treatment of run of mine (ROM) and or of the fines/waste dump should be spelt out.
1.5	Estimation of the fines going into the washings should be made and its management described.
1.6	Details of the equipment, settling pond etc. should be furnished.
1.7	Detailed material balance should be provided.
1.8	Sources of raw material and its transportation should be indicated. Steps proposed to be taken to protect the ore from getting air borne should be brought out.
1.9	Management and disposal of tailings and closure plan of the tailing pond, if any after the project is over, should be detailed in a quantified manner.
1.10	The water requirement for the project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should also be indicated.
1.11	A copy of the document in support of the fact that the Proponent is the rightful lessee of the unit should be given.
1.12	All documents including EIA/EMP report should be compatible with one another in terms of the production levels, waste generation and its management and technology and should be in the name of the lessee.
1.13	All corner coordinates of the Unit, superimposed on a High Resolution Imagery/Toposheet should be provided. Such an Imagery of the proposed Unit should clearly show the land use and other ecological features of the study area (core and buffer zone).
1.14	It should be clearly indicated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
1.15	Issues relating to Safety should be detailed. The proposed safeguard measures in each case should also be provided. Disaster management plan shall be prepared and included in the

S. No	Terms of Reference
	EIA/EMP Report.
1.16	The study area will comprise of 10 km zone around the Plant.
1.17	Cumulative impact study of both Beneficiation Plant with suggested mitigation measures as per the study should be described.
1.18	Option to provide only silo for storage of minerals instead of open stacking to avoid fugitive dust should be explored and arrangements finalized justified.
1.19	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
1.20	Details of the land for any Over Burden Dumps outside the lease, such as extent of land area, distance from lease, its land use, if any, should be given.
1.21	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the Project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
1.22	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
1.23	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
1.24	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site- specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should

S. No	Terms of Reference
	be at least one monitoring station within 500 m of the unit in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
1.25	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
1.26	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
1.27	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be secured and copy furnished. .
1.28	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
1.29	Impact of the project on the water quality, both surface and groundwater should be assessed and necessary safeguard measures, if any required, should be provided.
1.30	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
1.31	A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the project. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to the pollution.
1.32	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
1.33	Details of the onsite shelter and facilities to be provided to the workers should be included in the EIA report.
1.34	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP.
1.35	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.

S. No	Terms of Reference
1.36	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
1.37	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.
1.38	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
1.39	Benefits of the Project, if the project is implemented should be outlined. The benefits of the projects shall clearly indicate environmental, social, economic, employment potential, etc.
1.40	Besides the above, the below mentioned general points are also to be followed:- a) All documents to be properly referenced with index and continuous page numbering. b) Where data are presented in the report especially in Tables, the period in which the data were collected and the sources should be indicated. c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the project. d) Where the documents provided are in a language other than English, an English translation should be provided. e) The Questionnaire for environmental appraisal of project as devised earlier by the Ministry shall also be filled and submitted. f) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should also be followed. g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified Report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project by the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
1.41	The prescribed TOR would be valid for a period of four years for submission of the EIA/EMP report, as per the Notification S.O.751(E) dated 17.02.2020. The instant TOR is valid up to four years from the date of issuance of TOR.
1.42	The Project Proponent should submit the EIA/EMP report as per the generic structure prescribed in Appendix-III of the EIA Notification,2006 exempting public hearing to take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification,2006.

Additional Terms of Reference

- (i) Document for ownership of additional land.
- (ii) Layout showing the current unit, Beneficiation plant, raw material storage and products for both, internal road for truck/JCB movements.
- (iii) All raw materials and products to be under covered place along with retaining wall to protect from any contamination with storm water.
- (iv) Tailing pond capacity with management plan of effluent load and protection against overflow to be submitted.
- (v) Material movement plans and load to be submitted as a write-up.
- (vi) Green belt was there but advised to increase in the new piece of land
- (vii) Drainage plans with RWH to be submitted if not done.

- (viii) Plan for ZLD in details.
- (ix) Drain network, tailing/settling pond details
- (x) Management of Cr+6
- (xi) Particle size analysis.
- (xii) Process details in flow sheet of the existing plant along with mass balance.
- (xiii) Note on ETP details, disposal of ETP sludge and treatment process.
- (xiv) Copy of documentation in support of raw material sourcing for proposed expansion.
- (xv) Note on calculation of Surface run off considering the highest rainfall and treatment system to be adopted.
- (xvi) Detail plan of handling, storage and disposal of the proposed chrome ore beneficiation plant tailings (4500 ton / year containing <10% Cr₂O₃) as reported by the PP) to be submitted.
- (xvii) The proposed chrome ore beneficiation plant is to be in the premises of an existing industrial unit owned and operated by the project proponent. Details of compliance with the CTE and CTO order of the existing operating unit.



PARIVESH 2.0, AGENDA No.174.01	
Proposal No.	SIA/OR/IND1/454643/2023
Date of application	18.03.2024
File no.	454643/02-IND1/12-2023
Project Type	Fresh ToR
Category	B
Project/Activity including Schedule No.	2(b) Mineral beneficiation
Name of the Project	Proposal for ToR for Chrome ore beneficiation plant with throughput capacity of 18,500 TPA within the existing Chrome monolithic unit of M/s Prime Industries in Rahanja Industrial Estate, village Rahanja of Bhadrak District, Odisha
Name of the company/Organization	Sri Suman Swain Applicant
Location of Project	village Rahanja of Bhadrak District, Odisha
ToR issued date	Yet to be issued
Name of Consultant	

1. Proposal in brief:

The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

1. The proposal was considered by the committee to determine the “Terms of Reference (ToR)” for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference (ToR) for obtaining Environmental Clearance of M/s Prime Industries for Chrome ore beneficiation plant with throughput capacity of 18,500 TPA within the existing Chrome monolithic unit in Rahanja Industrial Estate, village Rahanja of Bhadrak District of Sri Suman Swain.
3. **Category:** The proposed project is for beneficiation facility of Chrome ore with throughput of 18500 TPA capacity. The project comes under sector 2 (b) and Category B2 (<20000 TPA) as per EIA Notification 2006 and subsequent amendments (OM dated 24th December 2013).
4. **Project details:** This is an existing unit of Prime industries which is a chrome monolithic unit and is operating since 2015.
5. The existing unit is operating with the consent to establish vide CTE letter no 409 dated 03.03.2015 and valid consent to vide letter no. 1003/CTO-2846/2015 on dated 19.05.2022 which is valid for the period up to 31.03.2026 from Odisha State Pollution Control Board.

6. **The existing chrome monolithic unit does not attract Environment Clearance as it is only mixing of raw materials without any use of heat and chemical treatment.**
7. Existing production from the unit are Chrome Monolithics :18000MT/annum, Refractory Mortar: 18000MT/annum and Ferro Alloy Metals (Reclaimed from Ferro alloy slag): 720 MT/annum
8. **Location and connectivity:** The proposed unit is located at IDCO Plot No-29 & 32, Rahanja Industrial State of Bhadrak District, Odisha. Odisha. The land area required for the project will be 0.198 Acres which comes under Mouza- Ranja bearing Khata no. 1 & 247 and Rev. plot no- 526(p), 527(p) and 528 (p) (sabik) and belongs to the project proponent. The area falls in toposheet number F450/12. Nearest National Highway is NH 16 at a distance of 0.17Km, SEE from the project site. Nearest railway station is at Ranital road railway station located at a distance of 3.30 Km from the project site. The NH- 16 is located at a distance of 0.18km, SEE from the project site. There is no wild life sanctuary, corridor, National Park, biosphere reserve located within 10Km buffer zone of the project site. Nearest Wildlife Sanctuary is Kuldhia Forest & Wildlife Sanctuary located at a distance of 26Km.
9. The proposed project for establishment of Chrome ore Beneficiation plant over an area of 0.798 Acres with throughput capacity of 18,500 TPA within the existing Chrome monolithic unit of M/s Prime Industries. The throughput capacity of the beneficiation unit will be 18500 TPA and beneficiated ore production will be 13800 TPA. The low-grade chrome ore will be procured from mines of OMC, Sukinda through auction process.

Existing product of the project:

- Chrome Monolithics :18000MT/annum
- Refractory Mortar :18000MT/annum
- Ferro Alloy Metals (Reclaimed from Ferro alloy slag) : 720 MT/annum

Proposed unit:

- Chrome ore Beneficiation Plant: 18500TPA

Units	Products and By Products	Existing	Additional	After Expansion
TPA	Chrome Ore	--	18500	18500

From the Chrome Ore beneficiation will be maximum i.e. 4700 TPA (<10% Cr₂O₃) (25%) will be generated.

MATERIAL BALANCE

INPUT		OUTPUT	
Chrome Ore Beneficiation Plant			
Raw Material (37% Cr₂O₃)	18500 TPA	Beneficiated Ore (50% Cr ₂ O ₃) (Recovery 75%)	13800 TPA
		Tailings (<10% Cr ₂ O ₃) (25%)	4700 TPA
Total	18500 TPA		18500 TPA
Chrome Monolithic Plant			
Beneficiated Ore (50% Cr₂O₃)	12000 TPA	Chrome Monolithic as per Market requirement	18000 TPA
Tailing (<10% Cr₂O₃)	4500 TPA		

Bentonite, Lime and Alumina	1500 TPA		
Total	18000 TPA		18000 TPA

10. Waste generation and management: The major solid waste will be the tailings generated from beneficiation process. The quantity of tailings to be 4700 TPA having <10% Cr₂O₃. The tailing generated will be utilized for blending in the chrome refractory mortar plant and there will be no solid waste dumping in long term. The tailing will be stored in the tailing dump. After drying the tailing will be blended in the chrome refractory mortar as per the demand of the customer. An area has been demarcated for storage of tailing within the plant premises. After beneficiation the tailings will flow down to the settling tank. An area of 225 m² has been earmarked, for storage of tailings and can store dry tailings upto two months. The tailings generated on daily basis will be shifted to the monolithic unit.

19. Baseline Study Details: Baseline study is under progress.

11. Water Requirement and waste water management: Total water requirement for the proposed project will be 153 KLD and make up water requirement will be 13 KLD. Out of the makeup water requirement 1 KLD used for drinking purpose which will be sourced from nearby village through tankers and rest water requirement of 12 KLD will be sourced from Rain Water Harvesting Pond. The water utilized in the process will be recycled resulting in zero discharge of wastewater. The tailing pond of adequate capacity will be constructed with suitable impervious lining to prevent percolation into ground water.

Description	For COB Plant (KLD) NON - MONSOON PERIOD		
	Fresh Water	Recycled	Total
Beneficiation (Make-up) from proposed rain water harvesting unit	3	7	10
Dust suppression	1.0	-	-
Green belt	1.0	-	-
Domestic	1.0	-	3.0
Total	6.0	7.0	13.0

Description	For COB Plant (KLD) MONSOON PERIOD		
	Fresh Water	Recycled	Total
Beneficiation (Make-up) from proposed rain water harvesting unit	3	7	10
Dust suppression	0.5	-	0.5
Green belt	0.5	-	0.5
Domestic	1.0	-	1.0
Total	5.0	7.0	12.0

12. Power Requirement and solar power details: The power requirement is estimated as 100 KVA and will be procured from TPCODL, Odisha. Also proposed to install 125 kVA DG set.

13. Rain water Harvesting Details: There will be construction of rain water recharge pit used for recharge of rain water in the premises.

14. Green belt: Green belt will be developed over an area of 1063 sq.m area with 250 saplings.

PROPOSED GREEN BELT PLAN

Location	Area Under Plantation (Sq.m)	No. of saplings Proposed	Species Proposed
Green Belt around the plant boundary. Near entrance gate	840 (3m width)	200	Dalbergia sisoo, Cassia siamea, Gmelia arborea, Tectona grandis, Alstonia scholaris, Azadirachta indica, Mangifera indica, Bamboo sps, Phyllanthus emblica, Punica granatum, Psidium guajva, Mimosops elengii, Hibiscus rosa sinensis, Nerium oliander
Plantation in open space (SE part of plant)	223 Sq.m	50	Dalbergia sisoo, Cassia siamea, Gmelia arborea, Acacia sps, Tectona grandis, Alstonia scholaris
Total	1063	250	
The proposed Green belt will be developed within 1 years of the plant operation			

15. **Manpower:** Proposed employment generation from proposed project will be 12 direct employments which includes operator -2, supervisor 2, 4 no of semi-skilled labor and 4 no of unskilled labour.

16. **Project Cost:** Total project cost is approx 5.195 Crore rupees and proposed EMP cost will be 32.0 lakhs and CSR cost will be 10.0 Lakhs.

Sl. No	Particulars	Amount (Rs in Lakhs)
Capital Cost		
01	Pollution Control Measures	18.00
02	Acoustics	5.00
03	Env. monitoring and management	3.00
04	Green Belt Development	2.0
05	Occupational Health & safety	2.0
Total		32.0
Recurring Cost		
01	Environmental Monitoring	3.00
02	Occupational health & safety	1.00
03	Greenbelt Development and maintenance	1.0
Total		5.0

17. **Environment Consultant:** The Environment consultant **M/s Kalyani Laboratories Pvt Ltd, Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee on 09.02.2024.

18. The SEAC in its meeting held on dated **09-02-2024** recommended the following:

A. The proponent may be asked to submit the following for further processing of TOR application:

- i) Complete layout of existing monolithic plant and proposed plant.
- ii) Specify the area earmarked for existing and proposed dumping stockyard and submit plant layout for existing and proposed unit.
- iii) Copy of Agreement (MOU) with raw material suppliers for the existing Monolithic plant and proposed chrome ore beneficiation Plant.
- iv) Submit water balance, material balance, chromium content and hexavalent Chromium content in the whole process.

- v) Layout of the whole plant demarcating the settling pond, jigging plant, spiral area, parking area, storage space and Surface Runoff treatment system.
- vi) Submit Particle size analysis.
- vii) The SEAC observed that, the existing land is insufficient for all the total setup of the proposed plant and the Terms of Reference (TOR) can be considered subjected to acquisition of additional land.

B. The proposed site shall be visited by Sub-Committee of SEAC to verify the followings

- i) Environmental compliance of the existing project and adequacy of the land available for setting of the proposed project.
- ii) Construction activities if any carried out for the proposed project.
- iii) Drainage network at the site.
- iv) Discharge point for discharge of treated waste water and distance of the discharge point from the project site.
- v) Area available for tailings management.
- vi) Road connectivity to the project site.
- i) Any other issues including local issues.

19. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Complete layout of existing monolithic plant and proposed plant.	Complete layout showing the existing and proposed plant is given as Annexure 1	Copy submitted
2.	Specify the area earmarked for existing and proposed dumping stockyard and submit plant layout for existing and proposed unit.	There will be no separate stacking of raw material for monolithic unit and proposed chrome ore beneficiation. The raw material for chrome ore beneficiation is low grade chrome ore which will be stacked in the existing stack yard and the product of the beneficiation unit will be used as raw material for monolithic plant. However the material stack yard is demarcated in the layout plan.	-
3.	Copy of Agreement (MOU) with raw material suppliers for the existing Monolithic plant and proposed chrome ore beneficiation Plant.	Copy of MoU for raw material sourcing is attached as Annexure 2	Consent letters to supply raw materials to Prime Industries by Kamarda & Saurubil Chromite mines is submitted.
4.	Submit water balance, material balance, chromium content and hexavalent Chromium content in the whole process.	Water balance and material balance and chromium content in the process is attached Annexure 3	Water balance and material balance submitted.
5.	Layout of the whole plant demarcating the settling pond, jigging plant, spiral area, parking area, storage space and Surface Runoff treatment system.	Layout plan demarcating the settling pond, jigging plant, spiral area, parking area, storage space and Surface Runoff treatment system is attached Annexure 1	Copy submitted
6.	Submit Particle size analysis.	Particle size analysis will be submitted along with the EIA report.	-
7.	The SEAC observed that, the existing land is insufficient for all the total setup of the proposed plant and the Terms of Reference (TOR) can be considered subjected to acquisition of additional land.	Additional area of 0.3 acres has been acquired for the proposed project. The tailing disposal area and rain water harvesting will be constructed in this area. Additional land document is attached as Annexure 4.	Copy submitted

20. The SEAC in its meeting held on dated 16-05-2024 decided to take decision on the proposal after a site visit of the Sub-Committee of SEAC.

21. The proposed site was visited by the sub-committee of SEAC on **18.06.2024**. Following are the observations of the sub-committee:

- a) The site is allotted by IDCO and is adjacent to the road with drain.
- b) The PP informed that they are now making Monolithic at one side and they want to go for a beneficiation unit of chrome ore at the other side of land. They informed that they have also acquired another piece of land for the same.
- c) The land has space available for beneficiation unit and they need to clean-up the area.
- d) PP was advised the following and asked to submit the following documents if not done:
 - i) Document for ownership of additional land.
 - ii) Layout showing the current unit, Beneficiation plant, raw material storage and products for both, internal road for truck/JCB movements
 - iii) All raw materials and products to be under covered place along with retaining wall to protect from any contamination with storm water
 - iv) Tailing pond capacity with management plan of effluent load and protection against overflow to be submitted
 - v) Material movement plans and load to be submitted as a write-up
 - vi) Green belt was there but advised to increase in the new piece of land
 - vii) Drainage plans with RWH to be submitted if not done
 - viii) All other points asked during presentation.

22. Any deficiencies/omission have been noticed in the above documents- Nil

2. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 22.07.2024 and the SEAC recommended to issue Terms of References (ToRs) exempting public hearing for conducting EIA study as per Annexure – A with following specific TORs:

- (i) Document for ownership of additional land.
- (ii) Layout showing the current unit, Beneficiation plant, raw material storage and products for both, internal road for truck/JCB movements.
- (iii) All raw materials and products to be under covered place along with retaining wall to protect from any contamination with storm water.
- (iv) Tailing pond capacity with management plan of effluent load and protection against overflow to be submitted.
- (v) Material movement plans and load to be submitted as a write-up.
- (vi) Green belt was there but advised to increase in the new piece of land
- (vii) Drainage plans with RWH to be submitted if not done.
- (viii) Plan for ZLD in details.
- (ix) Drain network, tailing/settling pond details
- (x) Management of Cr+6
- (xi) Particle size analysis.
- (xii) Process details in flow sheet of the existing plant along with mass balance.
- (xiii) Note on ETP details, disposal of ETP sludge and treatment process.
- (xiv) Copy of documentation in support of raw material sourcing for proposed expansion.
- (xv) Note on calculation of Surface run off considering the highest rainfall and treatment system to be adopted.
- (xvi) Detail plan of handling, storage and disposal of the proposed chrome ore beneficiation plant tailings (4500 ton / year containing <10% Cr₂O₃) as reported by the PP) to be submitted.
- (xvii) The proposed chrome ore beneficiation plant is to be in the premises of an existing industrial unit owned and operated by the project proponent. Details of compliance with the CTE and CTO order of the existing operating unit.

Decision Of Authority: Approved

After detailed deliberation in the matter, the Authority allowed ToR (both standard and SEAC recommended specific conditions) for EIA studies.

