ENVIRONMENTAL CLEARANCE	Government Ministry of Environment Ministry of Environment Impact As To, The Director SHYAM METALICS AND ENE VISWAKARMA	rnment of India ent, Forest and Climate Change sessment Division)
PARIVESH ive and Responsive Facilitation by Interactive, firtuous Environment Single-Window Hub)	 83, TOPSIA Road Kolkota-700 046,,Sambalpur,C Subject: Grant of Environmental Cleara under the provision of EIA Noti Sir/Madam, This is in reference to your a in respect of project submitted to IA/OR/IND/269835/2020 dated 11 May clearance granted to the project are as 1. EC Identification No. 2. File No. 3. Project Type 4. Category 5. Project/Activity including Schedule No. 6. Name of Project 7. Name of Company/Organization 8. Location of Project 	Prissa-758212 nce (EC) to the proposed Project Activity fication 2006-regarding pplication for Environmental Clearance (EC) b the Ministry vide proposal number 2022. The particulars of the environmental below. EC22A008OR121224 F.NO.J-11011/495/2006-IA.II(I) Expansion A 3(a) Metallurgical industries (ferrous & non ferrous) Expansion of existing Integrated steel plant to final capacity of Sponge Iron– 20,54,000 TPA, Billets (Mild & Alloy Steel) - 23,73,566 TPA, Rolled Products -15,60,000 TPA, Captive Power- 328 MW, Pellet SHYAM METALICS AND ENERGY LIMITED Orissa
(Pro-Ac	9. TOR Date The project details along with terms and no 2 onwards.	14 Jan 2021 conditions are appended herewith from page
	Date: 16/08/2022	(e-signed) Dr. R. B. Lal Scientist E IA - (Industrial Projects - 1 sector)
Contraction of the second seco	Note: A valid environmental clearand number & E-Sign generated from a number in all future correspondent	e shall be one that has EC identification PARIVESH.Please quote identification ce.

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By Speed Post/Online

F. No. IA- J-11011/495/2006 -IA.II (I) Government of India Ministry of Environment, Forest and Climate Change (I.A. Division – Industry I sector) ***

Indira Paryavaran Bhawan Vayu Wing, 3rd Floor, Jor Bagh Road, Aliganj, New Delhi – 110003

Dated: 16th August, 2022

To,

M/s Shyam Metalics and Energy Limited Rengali, Sambalpur, Orissa-758212 Email: shyammetalics05@gmail.com

Project: Expansion of existing Integrated steel plant to final capacity of Sponge Iron - 2,054,000 TPA, Billets (Mild & Alloy Steel)- 23,73,566 TPA, Rolled Products - 15,60,000 TPA, Captive Power-308 MW, Pellets - 30,00,000 TPA, Producer Gas Plant-96,450 Nm3/Hr, Sinter Plant- 5,90,625 TPA, Blast Furnace- 3,93,750 TPA by M/s. Shyam Metalics and Energy Limited located at Village - Pandloi, Block-Lapanga, District- Sambalpur, Odisha –Grant of Environmental Clearance regarding.

Sir,

This refers to your proposal no. IA/OR/IND/269835/2020 dated 11/05/2022 received through PARIVESH Portal for grant of Environmental Clearance (EC) for the project mentioned above.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under category <u>'A'</u> of item <u>3(a) Metallurgical Industries</u> (ferrous & non-ferrous), 2(b) Mineral Beneficiation and 1(d) Thermal Power Plant of the EIA Notification, 2006 and appraised at Central Level.

3. The above-mentioned proposal has been considered in $\frac{8^{th}}{May}$ meeting of Expert Appraisal Committee (Industry-1 Sector) held on 23-24th May, 2022. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <u>https://parivesh.nic.in</u>.

4. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are as under: -

S. No.	Particulars		Details					
a.	Terms of Reference for	14.01.2021 and a	14.01.2021 and amendment 26.05.2022					
	undertaking EIA study							
b.	Period of baseline data	1st December 20	020 to 28th February, 2021 &	Additional one month AAQ				
	collection	for January,2022						
с.	Date of Public	31.08.2021						
	Consultation							
d.	Action plan to address	An amount of R	s. 12.13 crores have been earn	narked to address the issues				
	the PH issues	raised during p	raised during public hearing. Detail of activities proposed attached					
		Annexure 1.						
e.	Location of the project	Village - Pandloi	, Block-Lapanga, District- Sam	balpur, Odisha				
f.	Latitude and Longitude	Point	Latitude	Longitude				
	of the project site	A	21°41'4.78"N	84°2'28.93"E				



S. No.	Particulars			Details				
		В	2	21°40'24.71"N	84°2'49.39"E			
		С	2	21°39'36.36"N	84°2'42.91"E			
		D		21°40'1.30"N	84°2'38.09"E			
		Е		21°40'2.10"N	84°2'26.20"E			
		F	2	21°39'45.21"N	84°2'14.29"E			
		G		21°40'0.70"N	84°1'43.51"E			
		Н	2	21°40'39.58"N	84° 2'9.19"E			
g.	Total land	347.058 ha [Fore 235.924 ha]	est land:	46.754 ha.; Govt. lanc	l: 64.38 ha; Private Land:			
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Existing plant is Additional Lan of acquisition Sambalpur.	running d Area by N	on land area of 166.20 of 180.789 ha for ex 1/s Shyam Metalio	59 ha already in possession. Apansion is in the process cs & Energy Limited,			
i.	Existence of habitation & involvement of R&R, if any	There is no ex acquisition. Hence	istence e no R&	of habitants identifier. Rissues	ed within the land under			
j.	Elevation of the project site	195-205 m above	mean se	ea level				
k.	Involvement of Forest land if any.	Area of the forest land involved: 8.361ha. For land under acquisition Stage 1 forest Clearance has already been approvedvide letter No. 82/10760/E&E dated 0/01/2020 and Stage 2 Forest Clearance is in Press.						
1.	Water body exists within the project site as well as	Project Site:	le nits ex	ast in the proposed site	for expansion			
	study area	Study area		dist in the proposed site	Tor expansion.			
		Water boo	ly	Distance	Direction			
		Hirakud Reserv	oir	0.67 Km	NW			
		Matwali Nala		0.15 km	NE			
		Sankri Nadi		2.8 km	S			
	2.	Makarkusha Na	ıla	4.1 km	Е			
	- A.N.	Bhedan Nadi		9.02 km	NNW			
m.	Existence of ESZ / ESA	Nil	-	105				
	/ national park / wildlife	List of Reserved	and pro	otected forests:				
	Sanctuary / biosphere	Ghichamura RF: 4.5km (NE)						
	elephant reserve etc. if	Jharghati Garpat	i RF: 4.6	5 Km (SE),				
	any within the study area	Maulabhanja RF	: 2.1 Kn	n (W),				
		Baighara RF: 2.6 Km (SW)						
		Kilasama	a RF: 4.7	7 Km (S				
n.	Project cost	Proposed – Rs 12	205.00 C	rores INR	D			
0.	EMP COSt	Туре		Capital Resin Crores	(Res in Crores)			
		Proposed	(182.0	18.0			
р.	Employment opportunity	170 person	1		20.0			
q.	Water and Power	(Existing + propo	sed)Wa	ter -22,729 KLD, Pow	ver – 228.1 MW			
1	requirement							

Unit configuration and capacity:

			Existin	g Facilities	as per	EC dated	21.5.20)19 &					
Plant Sl. Equipm No. ent/Faci		Total (A + B)		Implemented (A)		ient dated Un implem (B	Un- implemented (B)		As per CTO		osed ts	Final +Pr	(Existing oposed)
	шу	Config.	Cap acity	Config.	Capa city	Config.	Cap acity	Config.	Capa city	Config.	Cap acity	Config.	Capacity
1.	Sponge Iron	(2x350TP D+2x100 TPD+4x5 00 TPD)	8,00 ,000 TP A	(2x350T PD+2x1 00 TPD+4x 500 TPD)	8,00 ,000 TP A	28	Nil	(2x350T PD+2x1 00 TPD+4x 500 TPD)	8,00 ,000 TP A	(4x60 0 TPD &2x7 00 TPD)	12,5 4,00 0 TP A	2x350 TPD+ 2x100 TPD+ 4x500 TPD+ 4x600 TPD+ 2x700 TPD)	20,54,000 TPA
2.	Billet Caster	-	2,00 ,000 TP A	X	2,00 ,000 TP A		Nil	2,00,00 0 TPA	2,00 ,000 TP A	Ì	-	-	2,00,000 TPA
3.	Rolling mill	1,00,000 TMT Rod mill, 1x70,000 TMT Bar Mill, 1x60,000 Structural Mill, 2x2,00,00 0 Wire Rod Mill, 1x30,000 Pipe Mill	6,60 ,000 TP A	1x60,00 0 TMT Rod mill, 1x60,00 0 TMT Bar Mill, 1x60,00 0 Structur al Mill, 1x2,00, 000 Wire Rod Mill, 1x30,00 0 Pipe Mill	4,10 ,000 TP A	1x2,00 ,000T PA Wire rod mill & 1x50,0 00 TPA R.M	2,50 ,000 TP A	1x60,00 0 TMT Rod mill, 1x60,00 0 TMT Bar Mill, 1x60,00 0 Structur al Mill, 1x2,00, 000 Wire Rod Mill, 1x30,00 0 Pipe Mill	4,10 ,000 TP A	Other long produ ct 9,00,0 00 TPA	9,00 ,000 TP A	1x1,0 0,000 TMT ROD, 1x70, 000 TMT Bar Mill, 1x60, 000 Struct ural Mill, 2x2,0 0,000 Wire Rod Mill, 1x30, 000 Pipe Mill, 000 Pipe Mill, 000 Cher long produ ct 9,00,0 00 TPA	15,60,000 TPA
4.	Sinter Plant	-	-	-	-	-	-	-	-	65 m ²	5,90, 000 TPA	-	5,90,000 TPA
5.	MBF	-	-	-	-	-	-	-	-	450 m ³	3,93 ,750 TP		3,93,750 TPA (1x450



			Existin and su	g Facilities bsequent a	as per mendn	EC dated	21.5.20)19 & 2019					
SI. No.	Plant Equipm ent/Faci	Total (A -	+ B)	Impleme (A)	ented	Un implem (B	- ented	As per (сто	Units		Final +Pr	(Existing oposed)
	lity	Config.	Cap acity	Config.	Capa city	Config.	Cap acity	Config.	Capa city	Config.	Cap acity	Config.	Capacity
											A (1x 450 m ³)		m ³)
6.	Ferro alloys	(2x6MVA +2x9 MVA+3x 11 MVA- Matching capacity for 1,17,000 TPA	2,50 ,000 TP A		1,33 ,000 TP A		1,17 ,000 TP A	(3x11 MVA+2 x9 MVA+2 x6 MVA	1,33 ,000 TP A		-	(2x6 MVA +2x9 MVA +3x11 MVA - Match ing capaci ty for 1,17,0 00 TPA	2,50,000 TPA
7.	SMS	(EAF 1x80T(18 H) hot metal route; IF.15x18T +4x12T+. 4x8T, IF with matching LF)	14,4 4,28 6 TP A	4x8 T/Heat, 8x18 T/Heat, 4x12 T/Heat	6,23 ,080 TP A		821 206 TP A	4x8 T/Heat, 8x18 T/Heat, 4x12 T/Heat	6,23 ,080 TP A	(16x2 0T, & 4x8T)	9,29 ,280 TP A	(1x80 T, 15x18 T, 4x12T &8x8 T) &16x 20T)	23,73,286 TPA
8.	Pelletiza tion & beneficia tion unit	2x6,00,00 0 TPA	12,0 0,00 0 TP A	(2x6,00, 000 TPA)	12,0 0,00 0 TP A	ts if	Nil	(2x6,00, 000 TPA)	12,0 0,00 0 TP A	2x0.6 MTP A to be moder nized to 2x0.9 MTP A+1x 1.20 MTP A New)	18,0 0,00 0 TP A	(2x0.9 MTP A+1x 1.20 MTP A	30,00,000 TPA
9.	Coal Washery	1x10,00,0 00 TPA	10,0 0,00 0 TP A	1x3,00, 000 TPA	3,00 ,000 TP A	-	700 000 TP A	-	300 000 TP A	-	-	1X10, 00,00 0 TPA	10,00,000 TPA



			Existin	g Facilities	as per	EC dated	21.5.2)19 &					
	Plant	and subsequent amendn			ent dated 14.10 2019			Proposed		Final (Existing			
SI. No.	Equipm ent/Faci	Total (A + B)		Implemented (A)		Un- implemented (B)		As per CTO		Units		+Proposed)	
	шу	Config.	Cap acity	Config.	Capa city	Config.	Cap acity	Config.	Capa city	Config.	Cap acity	Config.	Capacity
10	Power Plant	58 MW(WH RB) +100 mw (AFBC	158 MW	58 MW(W HRB) +100 mw (AFBC)	158 MW		Nil	2	158 MW	88 MW WHR B + 80 MW AFBC + 2.0 MW TRT	170 M W	WHR B- 146 MW AFBC -180 MW TRT - 2 MW	328 MW
11	Bloom Caster	-	3,53 ,000 TP A	Ż	3,53 ,000 TP A		Ţ	2	3,53 ,000 TP A	à	-	-	3,53,000 TPA
12	Lime Plant		60,0 00 TP A	()	1		60,0 00 TP A	~		1	-	-	60,000 TPA
13	Producer Gas Plant	48,450 Nm ³ /hr)	48,4 50 Nm ³ /hr	Nm ³ /hr)	48,4 50 Nm ³ /hr		•	48,450 Nm ³ /hr.)	484 50 Nm ³ /hr	48,000 Nm ³ /h r)	48,0 00 Nm ³ /hr	96,45 0Nm ³ / hr)	96,450 Nm ³ /hr)

5. The EAC, in its 8th meeting of Expert Appraisal Committee (Industry-1 Sector) held on 23-24th June, 2022, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance subject to stipulation of specific and general conditions as detailed in the point below.

6. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the **Expert Appraisal Committee (Industry-1 Sector) hereby decided to grant Environment Clearance for instant proposal of M/s. Shyam Metalics and Energy Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

A. Specific conditions:

- i. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- ii. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.

- iii. The activities and the action plan proposed by the project proponent to address the issues raised during public hearing and socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.
- iv. Manmade pits exist in the proposed site for expansion along-with Hirakud Reservoir and rivers and nallahs exists within the study area from the project site. The water bodies shall not be disturbed. Landscaping shall be done on both embankments, with green belt covering 10 m land on both sides of the nallah. This shall be in addition to the 33% green belt development.
- v. Tailings from Iron Ore washing plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.
- vi. Solid waste utilization
 - PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
 - PP shall recycle/reuse 100 % solid waste generated in the plant.
 - Used refractories shall be recycled as far as possible.
- vii. Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.
- viii. Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
- ix. Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450m³), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.
- x. Secondary fume extraction system shall be installed on converters of Steel Melting Shop.
- xi. Basic Oxygen Furnace (BOF) gas shall be cleaned dry.
- xii. Electric Arc Furnace shall be closed type with 4th hole extraction system.
- xiii. 85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.
- xiv. Dust emission from Steel Plant stacks shall be up to 30 mg/Nm³.
- xv. 22,729 KLD of water requirement for the total project shall be met from Hirakud Reservoir after necessary permission. No GW abstraction is permitted.
- xvi. Three tier Green Belt shall be developed in a time frame of one year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. In addition, PP shall provide 50-meter-wide green belt towards Reserve Forest located at 0.50 km from project site. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- xvii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- xviii. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
 - xix. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

- xx. The proposed project shall be designed as "Zero Liquid Discharge" Plant. No waste water will be discharged outside the plant boundary.
- xxi. Hirakud water reservoir is at 0.67 km from the Unit. Mitigation measures as committed w.r.t. safeguarding the water bodies shall be implemented.
- xxii. As committed earlier, Rs. 2.00 Crores shall be earmarked for setting up of Industrial Training Institute (ITI) in consultation with the State Government and progress shall be reported to the Ministry's Integrated Regional Office.
- xxiii. PP shall ensure the education benefits demanded in PH reach to the beneficiaries directly (in terms of no. of youth sponsored for post-school education, from the local villages) and donations to the ITI should not be counted against this.
- xxiv. Air cooled condensers shall be used in the power plant.
- xxv. A proper action plan must be implemented to dispose of the electronic waste generated
- xxvi. During operational phase-at coke oven areas the PP shall monitor the benzene, toluene, xylene (BTX) and Polycyclic Aromatic Hydrocarbons (PAHs) in the occupational environments and the concentrations found to be compared with permissible limits for these chemicals as per Indian Factories Act, 1948.
- xxvii. The coal dust to be measured at coal handling areas, ball mills, furnace charging areas through personal and area monitoring and to be compared and it should be within 2 mg/m3, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
- xxviii. The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

B. <u>General conditions:</u>

I. Statutory compliance:

i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- 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. Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
- iv. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- v. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vi. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- vii. 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.
- viii. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).
- x. Land-based APC system shall be installed to control coke pushing emissions.
- xi. Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.
- xii. Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.
- xiii. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xiv. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

- The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) 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 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.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off.
- v. Tyre washing facilities shall be provided at the entrance of the plant gates.
- vi. Water meters shall be provided at the inlet to all unit processes in the steel plants.



IV. Noise monitoring and prevention

i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

V. Energy Conservation measures

- i. Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
- ii. Restrict Gas flaring to < 1%.
- iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- iv. Provide LED lights in their offices and residential areas.
- v. Ensure installation of regenerative/recuperative type burners on all reheating furnaces.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

- i. Green belt shall be developed in an area equal to 33% of the plant area with native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.
- iii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.

VIII. Public hearing and Human health issues

- 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.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.



IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020.
- ii. 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.
- iii. 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.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (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.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. 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.



- ix. 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).
- x. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 7. This issues with the approval of the Competent Authority.

(Dr. R. B. Lal) Scientist 'E'/Additional Director Tel: 011-20819346 <u>Email-rb.lal@nic.in</u>

Encl. as above at Annexure -I

Copy to: -

- 1. The Principal Secretary, Department of Forest and Environment, Government of Odisha, Bhubaneswar, Odisha
- 2. The Director General of Forest, Ministry Of Environment, Forest and Climate Change, New Delhi
- 3. The Principal Chief Conservator of Forests & Hoff, Aranya Bhawan, Chandrasekharpur, Bhubaneswar 751 023, Odisha
- 4. The Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, A/3, Chandersekharpur, Bhubaneswar 751023 Odisha
- 5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, Cbd-Cum-Office Complex, East Arjun Nagar, Delhi 32

- 6. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
- 7. The Member Secretary, Odisha State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit Viii, Bhubaneswar -12 Odisha.
- 8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
- 9. District Collector, Sambalpur, Odisha.
- 10. Guard File/Monitoring File/ Parivesh Portal /Record File.

(Dr. R. B. Lal) Scientist 'E'/Additional Director Tel: 011-20819346 Email-rb.lal@nic.in C Protects 10 158



Annexure – 1

Action plan as per MoEF&CC O.M. dated 30/09/2020

Sh. Issues raised posted ACMUNY & Action Pian as per O.M dated 30.09.2020 Capital Budget to be spent in 1 yr Recurring (Rs. In Lakhs) Action Pian per tin next) (Rs. In Lakhs) Influe spent in next (Rs. In Lakhs) Influe spent in next (Rs. In Lakhs) 1 Employment upportunities to local People & Local 1.M/s. SMEL is giving recruitment in their students from nearby villages namely, Katarbaga, Khinda, Gurupali, Nishabhanga etc. 50.00 50.00 This process will be completed within 3 ys 2 Employment under company payroll SMEL will adhere protocols and will try to revised opportunities as per Qualification an agement. So the company will ensure for engagement of locals in those jobs. - This process of giving employment to local people is continuing & within 3 yrs 3 Supply of safe trinking water in nearby villages. SMEL will adhere protocols and will try to provide opportunities as per Qualification an agement. So the company will ensure for engagement of locals in those jobs. 58.00 It will be completed within 1 be done. 3 Supply of safe in nearby villages. SMEL is providing safe dinking water through tanker in nearby villages namely by SMEL. Actions Plan: 2 nos. of Purified Dinking Water facilities shall be installed at strategic public locations Locations Locations Locations Supply of safe through tanker in nearby villages namely within 1 be provide in nearby villages shall be installed at strategic public locations Locations Locations 6.00 - Dec, 2022 <td< th=""><th></th><th>Tama and the fo</th><th></th><th>C</th><th>D</th><th>T!</th></td<>		Tama and the fo		C	D	T!
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Finite Wein & Finite of , Mishahohanga & Rahapada Pond in nearby Village Village 5 Women Promotion of Income Generation 30.00 30.00 5 Women Activities- Kitchen Garden, Leaf plate, in surrounding Pickle making, NTFP etc. continuing villages by (100 interested women beneficiaries within Providing jobs 10 SHG members of nearby GPs shall be & financial trained)		tube well &	Pandloi Nishanbhanga & Kalianada			
1 one in nearby village village in second for the		Pond in nearby				
Structure Promotion of Income Generation 30.00 30.00 This process is continuing 5 Women Activities- Kitchen Garden, Leaf plate, in surrounding Pickle making, NTFP etc. continuing villages by (100 interested women beneficiaries within Providing jobs 10 SHG members of nearby GPs shall be continuing & financial trained) trained trained continuing		villages	v muge			
Source From the formation of meanine definition 50.00 Finis process is Empowerment Activities- Kitchen Garden, Leaf plate, continuing in surrounding Pickle making, NTFP etc. continuing villages by (100 interested women beneficiaries within Providing jobs 10 SHG members of nearby GPs shall be & financial trained)	5	Women	Promotion of Income Generation	30.00	30.00	This process is
in surrounding Pickle making, NTFP etc. villages by (100 interested women beneficiaries within Providing jobs 10 SHG members of nearby GPs shall be & financial trained)	5	Empowerment	Activities- Kitchen Garden Leaf nlate	50.00	50.00	continuing
villages by(100 interested women beneficiaries withinProviding jobs10 SHG members of nearby GPs shall be& financialtrained)		in surrounding	Pickle making, NTFP etc.			- sincing
Providing jobs 10 SHG members of nearby GPs shall be & financial trained)		villages by	(100 interested women beneficiaries within			
& financial trained)		Providing inhs	10 SHG members of nearby GPs shall be			
		& financial	trained)			



Sl.	Issues raised	Physical Activity & Action Plan as per	Capital Budget	Recurring	Time
No.	by Public	O.M dated 30.09.2020	to be spent in 1	Budget to be	Schedule for
	-		yr	spent in next 2	Implementati
			(Rs. In Lakhs)	yrs (Rs. In	on
				Lakhs)	
	support to				
	SHG groups.				
6	Integrated	Education	80.00	20.00	This process is
	development of	i.Tie up with local ITI college from 2009			continuing
	Education &	& providing all financial support for			
	public Health	development of education.			
	facility of	Budget=Rs. 25.00 Lakh Avg. per year			
	locality &	(Letter from ITI college is attached as			
	organizing	Annexure)			
	local Health	<u>Health</u>	2		
	Camps	ii. Two Health Camps per year.	I Dara		
		Location-Pandloi, Nishanbhanga, Bamaloi,	- V / 49		
		Gurupali	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
		Budget=Rs. 55.00 lakh	1 NY	2	
		3.Purchase of Ambulance for the benefit of			
		the local villages.(Rs.20.00 Lakh)			
7	Providing	Company is supplying Computers & other	100.00	100.00	This Process
	Computers,	accessories to 6 nos. of schools.		N	will continue
	Table, Chair to	Namely: (1)Lahamani U.G High School,	•		
	village School	Jangala	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	& financial	(2)Akshara English School, Rengali	150 000		
	assistance to	(3)Govt. Polytechnic Sambalpur, Rengali	× 1 230		
	private	(4) Govt. H <mark>os</mark> pital, Rengali-	0.40 2/19	1 I I I I I I I I I I I I I I I I I I I	
	teachers.	(5)Jambahal Primary School, Jangala			
		(6)Golamal High School, Ludhapali			
8	1 Renair &	1 Maintainance of PCC road Location-	280.00	100.00	June 2023
0	Construction of	Meherpada Ganesh nagar Pandloi	200.00	100.00	June, 2025
	Approach road	2 Contruction of PCC from Nishanbhanga	1	18	
	to plant &	to Iharmunda		1.57	
	village roads	3. Providing mechanical sweeping machine			
	2. Peripherial	to keep the road clean from dust.	10		
	Development	12	- N		
9	Installation of	Installation of 1,000 Solar street light at	50.00		Dec, 2022
	Street light on	10 m interval in villages namely Pandloi,	1916		
	approaching	Nishanbhanga, Jharmunda(@5,000			
	road from	rupees each)			
	plant to villages	• · · · · ·			
10	Pollution	1.Raw material is being transported	239.00		Dec, 2022
	control	through properly covered trucks from			
	measures for	the plant site.			
	reduction of	2. 5 nos. of truck mounted mist cannon			
	the Pollution	fogging system in and around the plant			
	level.	premises will be installed.			
		3. Engaging automatic heavy duty road			
		sweeper in all roads to remove the dust			
		before the dust resuspended by truck			
		movement.			

Sl.	Issues raised	Physical Activity & Action Plan as per	Capital Budget	Recurring	Time
No.	by Public	O.M dated 30.09.2020	to be spent in 1	Budget to be	Schedule for
			yr	spent in next 2	Implementati
			(Rs. In Lakhs)	yrs (Rs. In	on
				Lakhs)	
		4.Water sprinkling is done at regular			
		intervals on the internal & external			
		roads used for material transportation.			
		5.Additionally wheel wash system will			
		be installed at the Main entry/Exit gate			
		for control fugitive emission.			
		6.5 nos. of Water tankers of 10KLD			
		capacity each have been engaged to			
		sprinkle water on nearby village roads			
		twice a day.	2		
11	Encourage	SMEL is giving 1 st preference to the local	T DOWN	-	This Process
	Local	contactors having relevant skills and work	L V 1.49		will continue.
	Contractors by	experience.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	giving contract	Whenever the company authority requires		S	
	works in	the help of contractors it will provide to		~	
	Priority basis.	them.			
12	Help to needy	1.Promotion of Income Generation	80.00	27.00	This Process
	people	Activities- Mushroom Cultivation,		N	will continue.
		NTFP etc.			
		2. SMEL is helping to needy people &	1 N N	11	
		engaged in different developmental	Same Bar		
		works in its nearby villages through its	×124		
		CSR activities.	6 AL 2/1	6	
13	Adoption of	Name of Village: Bausen	60.00	53.00	This Process
	Village	Physical Activities:		11	will
		Different developmental program will be		110	continue
		carried out such as health, education &	1 - 13	1.5	
		road & infrastructure development.	11	12	
		2	1	1 A.	
		Budget Allocated		25	
		(1)For Health=Rs. 40.00 Lakh			
		(11)For Education=Rs.38.00Lakh	- 5		
		(111) Road & Infrastructure	1.16		
		Development=Rs.35.00 Lakh			
Total	Budget	12 12 11 12	1213.00		

