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**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**Compliance Report**  
**2024**  
**01 Jun(01 Oct - 31 Mar)**



**Proposal Details**

<b>Proposal Name</b>	Expansion of Integrated Mini Steel Plant by M/s. Ind Synergy Ltd. for Sponge Iron Plant from 3,00,000 to 6,30,000TPA, Power Plant from 24 to 99MW, SMS from 1,40,000 to 4,40,000TPA, Coal Washery from 7,20,000 to 9,00,000TPA, Iron ore crusher-14,40,000TPA & new units: Cold Pigs-3,00,000TPA, Sinter Plant-4,40,000TPA, Blast Furnace-3,00,000TPA, Pellet Plant-6,00,000TPA, Rolling Mills- 5,00,000TPA, Ductile Pipe Plant - 2,00,000TPA, Oxygen Plant-70TPD, Ferro Alloy Plant-30,000TPA & Cement Grinding- 0.5 MTPA, located at Village Kotmar and Mahuapalli, Raigarh Tehsil, Raigarh District, Chhattisgarh-		
<b>Name of Entity / Corporate Office</b>	Shrawan Agrawal		
<b>Village(s)</b>	N/A		
<b>District</b>	RAIGARH		
<b>Proposal No.</b>	IA/CG/IND/276148/2020	<b>Category</b>	Industrial Projects - 1
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	CHHATTISGARH	<b>Entity's PAN</b>	NA
<b>MoEF File No.</b>	J-11011/170/2007-IA.II(I)	<b>Entity name as per PAN</b>	NA

**Compliance Reporting Details**

<b>Reporting Year</b>	2024
<b>Remarks (if any)</b>	
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

<b>Name of Entity / Corporate Office</b>	Shrawan Agrawal	
	<b>Project Area as per EC Granted</b>	<b>Annual Project Area in Possession</b>
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

Production Capacity						
Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Sinter	Tons per Annum (TPA)	28/02/2024	440000	20000	440000
2	Cold Pigs	Tons per Annum (TPA)	28/02/2024	300000	15000	300000

## Conditions

### Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	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.
<b>PPs Submission:</b> Agreed to Comply Noted the Contents & we shall comply with all the environmental protection measures and safeguards		Date: 24/04/2024
2	WASTE MANAGEMENT	Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.
<b>PPs Submission:</b> Complied Coal rejects from the washery is being used in the Captive Power plant		Date: 25/04/2024
3	WATER QUALITY MONITORING AND PRESERVATION	The proposed project shall be designed as "Zero Liquid Discharge" Plant. No waste water will be discharged outside the plant boundary
<b>PPs Submission:</b> Complied Waste water generated from the plant will be treated in effluent treatment plant (ETP) and after treatment for ensuring water quality, online EQMS installed & also compliance with the CECB norms, the treated effluent will be utilized for process, cooling, dust suppression and for green belt development. Pics of ETP, PTZ camera, online EQMS and flowmeter & online EQMS Data as Annexure 18. Company follows zero discharge liquid system & will be maintained in the future too.		Date: 26/04/2024
4	GREENBELT	Three tier Green Belt shall be developed in a time frame of one year in atleast 33% of project area 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. 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. ISL shall increase the density of plantation from 1000 tree/ha to 2500 tree /ha by taking up gap plantation. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
<b>PPs Submission:</b> Complied Existing green belt has been developed in 34.2 Ha which is more than 33% of the project Area. We		Date: 25/04/2024

		have already planted around 93000 Nos. of trees. Thick green belt of width of 10 m along the boundary has been developed. Species are planted in consultation with the local DFO. ISL already achieved the density of plantation to 2500 trees/ ha by taking up gap plantation and in future it will be maintained by ISL team. Plantation audit report by Nav Aasta attached as an Annx.-1	
5	GREENBELT	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	
<b>PPs Submission:</b> Complied Noted and complied. A few Pics of plantation within the plant is attached as an Annx.-15.			Date: 25/04/2024
6	WASTE MANAGEMENT	Solid waste utilization a. 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. b. PP shall recycle/reuse 100 % solid waste generated in the plant. c. Used refractories shall be recycled as far as possible.	
<b>PPs Submission:</b> Complied We have already installed and operating a slag crusher unit and pics are attached as Annx. -4 Two units of Fly ash brick plant are operational and Fly ash bricks will be used for the construction activities of the expansion pics Annx. -5, Annx.- 6 respectively. Crushed slag is provided to the interested parties and / or to the Barbarik Project Pvt. an infrastructure developing company, to utilize in the Road making and other projects. Copy of the executed MOU (with MSP Steel, MSP Sponge, Raigarh Ispat, and Barbrick) are attached as Annx.- 7, 8, 9, 10 and sale register of Slag, Dolochar as Annx. -11 We propose to set up cement grinding unit (PPC PSC) of 500000 TPA capacity, wherein 100% generated slag from SMS and granulated slag from Blast Furnace shall be utilized in house. Used refractories shall be recycled and utilised as far as possible.			Date: 25/04/2024
7	AIR QUALITY MONITORING AND PRESERVATION	Dust emission from Steel Plant stacks shall be up to 30 mg/Nm3.	
<b>PPs Submission:</b> Complied Noted & followed Dust emission from stacks are below 30 mg/Nm3. Attach report as Annx.-14			Date: 25/04/2024
8	MISCELLANEOUS	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.	
<b>PPs Submission:</b> Complied Noted and complied. Report of performance test of pollution control equipment has been submitted to Regional Office of the MoEF&CC.			Date: 01/05/2024
9	PUBLIC HEARING	As committed the project proponent shall adopt 4 Nos of villages namely Mohuapali, Kotmar, Siarpali and Karichchapar and implement a robust action plan to develop the villages in model villages.	
<b>PPs Submission:</b> Complied The company has adopted 4 Nos. of villages namely Mahuapali, Kotmar, Siarpali and Karichchapar villages located within the 5 km radius of the plant and will develop these villages into model villages with a budget of 25 lakhs/annum for each village for the next five years. In the year 2023 we organized numerous environmental awareness programmes at Primary & middle school of 4 near by villages where we distributed stationary, snacks, trees for plantation etc. & also give 1 no. of desktop to primary school Kotmar & 1 no of Laptop to middle school of Kotmar.			Date: 26/04/2024
10	WATER QUALITY MONITORING AND PRESERVATION	Total water requirement of 12,237 m3/day after expansion shall be obtained from Sapnai river. No additional GW abstraction is permitted.	

<p><b>PPs Submission:</b> Complied</p> <p>Total water requirement shall not exceed to 12,237 m3/day water quantity. Average per day consumption is 585.52 L &amp; the bill for water consumption (of last six monts from June 2023 to December 2023) is attached as Annx.- 3. No ground water is being used for the industrial purpose.</p>		<p>Date: 25/04/2024</p>
11	<p><b>AIR QUALITY MONITORING AND PRESERVATION</b></p>	<p>Submerged Arc/Electric Arc Furnace shall be closed type with 4th hole extraction system.</p>
<p><b>PPs Submission:</b> Complied</p> <p>Noted. While installing Submerged Arc/Electric Arc Furnace, it will be closed type with 4th hole extraction system</p>		<p>Date: 25/04/2024</p>
12	<p><b>ENERGY PRESERVATION MEASURES</b></p>	<p>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. 100 % hot charging to ensure energy conservation.</p>
<p><b>PPs Submission:</b> Complied</p> <p>Noted. While installing SMS and Rolling Mill , it will be ensured that 85-90 % of billets will be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas. 100 % hot charging to ensure energy conservation</p>		<p>Date: 25/04/2024</p>
13	<p><b>AIR QUALITY MONITORING AND PRESERVATION</b></p>	<p>Secondary fume extraction system shall be installed on converters of Steel Melting Shop.</p>
<p><b>PPs Submission:</b> Complied</p> <p>While installation of SMS converters, Secondary fume extraction system shall be installed on converters of Steel Melting Shop.</p>		<p>Date: 25/04/2024</p>
14	<p><b>ENERGY PRESERVATION MEASURES</b></p>	<p>Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.</p>
<p><b>PPs Submission:</b> Complied</p> <p>Sinter Plant is equipped with recycling facility, all the waste &amp; fines generated in sinter plant will be recycled in sinter plant itself and the pics are attached as Annx. – 12 Suitable technology will be installed or followed for dioxins and furans emissions after BF and Sinter production resumes.</p>		<p>Date: 25/04/2024</p>
15	<p><b>AIR QUALITY MONITORING AND PRESERVATION</b></p>	<p>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 &amp; CC in this regard.</p>
<p><b>PPs Submission:</b> Being Complied</p> <p>Green Belt developed over an area of 34.2 Ha with 93556 Plants to capture carbon emitted and demonstrate to be green belt is used as carbon sink/carbon sequestration resources capable of capturing emitted carbon. Plantation monitoring and evaluation report attached as Annx.-1 Study is being conducted by a third Party to assess technologies for capturing of carbon emitted. Currently already developed GreenBelt is used as carbon sink / carbon sequestration resources Within six months, Study Report of Carbon sequestration will be submitted to the IRO, MoEF &amp; CC in this regard.</p>		<p>Date: 25/04/2024</p>
16	<p><b>ENERGY PRESERVATION MEASURES</b></p>	<p>Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450 m3), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.</p>

<p><b>PPs Submission:</b> Complied Top Recovery turbine is not feasible as our Mini-Blast Furnace is of only 260 m3 useful volume capacity, whereas Top Recovery Turbine is feasible with the capacity of more than 450 m3. Blast Furnace is equipped with Dry gas cleaning plant, Slag Granulation system, cast House, stock house and all are in place and equipped with proper ventilation. Pics are given in Annx. -13</p>		<p>Date: 25/04/2024</p>
17	<p><b>WATER QUALITY MONITORING AND PRESERVATION</b></p>	<p>Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report</p>
<p><b>PPs Submission:</b> Complied We have implemented rain water harvesting system in the plant. The water collected from the various areas is routed to rainwater harvesting pond provided in the plant. In addition to the above, rainwater harvesting pits are provided to collect the roof top rain water from various buildings. Pics of rainwater harvesting pits are attached as Annx. -17</p>		<p>Date: 25/04/2024</p>
18	<p><b>WATER QUALITY MONITORING AND PRESERVATION</b></p>	<p>Sapnal Nala (Kharkhari River) is located at a distance of about 710m in the north eastern side of the plant site. Mitigation measures to protect the Sapnal Nala shall be implemented as submitted by PP.</p>
<p><b>PPs Submission:</b> Complied A thick green belt is provided along the boundary facing towards Kharkhari River to protect the Sapnal Nala with respect to mitigation measures. Annx. -2 (Pics of plantation along the boundary facing towards Sapnal Nala)</p>		<p>Date: 25/04/2024</p>
19	<p><b>AIR QUALITY MONITORING AND PRESERVATION</b></p>	<p>De SOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm3 by using best available technology.</p>
<p><b>PPs Submission:</b> Complied Noted and agreed.</p>		<p>Date: 26/04/2024</p>
20	<p><b>AIR QUALITY MONITORING AND PRESERVATION</b></p>	<p>Petcoke dosing shall be controlled automatically to control SO2 emission from chimney within the prescribed limits.</p>
<p><b>PPs Submission:</b> Complied Noted and agreed.</p>		<p>Date: 26/04/2024</p>
21	<p><b>WATER QUALITY MONITORING AND PRESERVATION</b></p>	<p>Air cooled condensers shall be used in the power plant.</p>
<p><b>PPs Submission:</b> Complied Noted. For the future expansion, Air cooled condensers shall only be used in the power plants.</p>		<p>Date: 26/04/2024</p>
22	<p>Human Health Environment</p>	<p>The Unit is existing and using quartzite, coal and coke. Therefore, the industry is recommended to measure silica and coal dust exposures using personal and area air samplers in process plants and to be compared with Permissible exposure limits as per Indian Factories Act, 1948. Report to be submitted to the IRO, MoEFCC.</p>
<p><b>PPs Submission:</b> Complied As per Indian Factories Act, 1948, silica and coal dust exposures using personal and area air samplers in process plants has been measured and found to be within the prescribed limits. Pics of different locations where sampling done &amp; report attached in Annx. 20.</p>		<p>Date: 26/04/2024</p>
23	<p><b>PUBLIC HEARING</b></p>	<p>All the commitments made to the public during the Public</p>

		Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact . assessment study of the project as per the EMP in accordance to the Ministry’s OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
<b>PPs Submission:</b> Being Complied Implemented and action Plan is under progress.		Date: 26/04/2024
24	WASTE MANAGEMENT	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents.
<b>PPs Submission:</b> Complied Gazette notification, The Plastic Management Rules will be followed and observed. Awareness shall be created among people working within the Project area by workshops and posters as well as in the surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. Measures taken- We collected solid wastes & plastic waste from colony in 2 different garbage dustbin box (One for biodegradable waste & the other for non biodegradable waste) regularly. We compost biodegradable waste in a pit then after composting we use as organic fertilizer for green belt, plantation. For non degradable waste & plastic waste we disposed them with the help of local housekeeping vendors in regular interval of time period. We also conducted awareness programs & displayed posters for stop plastic use. Posters for awareness programme to stop use of Plastics attached in Annx. – 21.		Date: 26/04/2024
25	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
<b>PPs Submission:</b> Complied Noted. ESP & Bag filters are installed to control air pollution at various sources from where emission produced. For control of Stack emission we have installed ESP and all the stack heights are constructed as per CPCB Specification/norms. Particulate matter emission is well within the prescribed limits & online monitoring system also installed & the real time data also displayed at CECB & CPCB Portal directly. Like for DRI 1, 2, & 3 unit- total 3 no. of ESP, total 5 no. of Bag filter unit PSB 1, 2, & for kiln 1, 2, 3 for each, For Blast furnace - 2 no. of Bag filter unit, 1 set of gas cleaning plant, For Sinter plant -1 no. of ESP, 1 no. of Bag filter unit, 1 no of Fume dedusting unit are installed, For the existing induction furnaces (SMS) - 3 no.s of suction hood already provided as per CPCB norms. We followed some SOP For control of Fugitive dust emission. Like for raw material handling plant -Conveyor, transfer point, junction point, is totally covered with GI sheets. We operate crusher, ash silo, crusher as per norms and followed our SOP so that we can		Date: 26/04/2024

control or minimized emission. For further suppression of dust, Sprinklers, fog system with bag filter unit installed & also for Road Transportation tarpaulin covered vehicles/trucks are used, also we have our own Railway siding where we use mechanically covered wagons for transportation. For raw material handling plant -Conveyor, transfer point, junction point, is totally covered with GI sheets. For further suppression of dust, Sprinklers, fog system with bagfilter unit installed & also for road transportation tarpaulin covered vehicles/trucks are used, also we have our own railway siding where we use mechanically covered wagons for transportation. Pics of bagfilters, ESPs & Suction hoods are attached in Annx. -22. PUC certificate of vehicles attached as Annx. – 23 & Railwaysiding pics as Annx.-24.		
26	Human Health Environment	Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.
<b>PPs Submission:</b> Complied Noted and agreed. BF and Sinter production activities started on 08th January 2024 for a brief period. Management decided to temporarily shut down the both units due to financial non-viability of Pig Iron costing. As soon as BF and Sinter production activities re-starts and production stabilises, we will carry put Dioxine & Furan monitoring as per noms. Currently, we don't have cement kiln stacks at our plant either.		Date: 26/04/2024
27	WASTE MANAGEMENT	A proper action plan must be implemented to dispose of the electronic waste generated.
<b>PPs Submission:</b> Complied Generated electronic waste is provided / sold to the authorized dealers/recyclers for disposal. Annexure -19 (Certificate of e- waste sell)		Date: 26/04/2024
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	Corporate Environmental Responsibility	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.
<b>PPs Submission:</b> Complied The environmental policy approved by Board of Directors is attached as Annx. -51 For the protection of wild animals, Wild Life Conservation Action Plan has been prepared and was approved by the Chief Wild Life Warden. Annx. – 52 (Copy of the Approval letter) Rs. 36.20 Lakhs has been deposited to DFO Raigarh office on dated 16/02/2023 towards the implementation of the approved Wild life Conservation plan. Annx. -53(Copy of the Rs 36.20 Lakhs deposition letter)		Date: 30/04/2024
2	WATER QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Complied We have already installed Piezometer. Report of Ground water quality monitoring report from Govt.agency/ NABL accredited laboratories attached as Annx. -39.		Date: 30/04/2024

3	ENERGY PRESERVATION MEASURES	Ensure installation of regenerative/recuperative type burners on all reheating furnaces
<b>PPs Submission:</b> Complied Noted. While installing reheating furnaces in the course of Expansion, egenerative/recuperative type burners will be installed.		Date: 01/05/2024
4	AIR QUALITY MONITORING AND PRESERVATION	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
<b>PPs Submission:</b> Complied Noted and agreed		Date: 30/04/2024
5	Corporate Environmental Responsibility	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 report to the head of the organization.
<b>PPs Submission:</b> Complied The company has formed a separate Environmental Management Cell with qualified personnel and Environmental Lab has also been set up. Annx. -55 copy of the Environmental Management Cell		Date: 01/05/2024
6	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous emission 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.
<b>PPs Submission:</b> Complied We have already installed five Nos.of continuous emission monitoring system and one No. of ambient air quality monitoing station for measuring the air quality. The CEMS & AAQMS are already integrated with the SPCB & CECB server. It's pertinenet to mention that BF and Sinter are temporarily shut down. Annx. - 25.1, 25.2, 25.3 Pics of CEMS station, real time data and id, password.		Date: 01/05/2024
7	Statutory compliance	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.
<b>PPs Submission:</b> Agreed to Comply Noted and Agreed		Date: 26/04/2024
8	AIR QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Complied Fugitive emission and Ambient Air quality monitoring reports from NABL accredited laboratories		Date:

are attached as Annx.-26 & Annx. - 27 respectively.		30/04/2024
9	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.
<b>PPs Submission:</b> Complied Continuous 24x7 effluent monitoring system, connected to the online server of CECB installed. Online effluent monitoring systems (EQMS) pics, PTZ Camera, flowmeter, & real time datais attached in Annx .18. respectively. PO of Online EQMS attached as Annx.-37 & Comisioning certificate of EQMS as Annx.- 38.		Date: 30/04/2024
10	WATER QUALITY MONITORING AND PRESERVATION	Water meters shall be provided at the inlet to all unit processes in the steel plants.
11	Noise Monitoring & Prevention	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.
<b>PPs Submission:</b> Complied Noise monitoring will be done as prescribed schedule and it will be submitted to the Regional Officer of the ministry. Copy of attached Noise Report is in Annx. -45.		Date: 30/04/2024
12	ENERGY PRESERVATION MEASURES	Restrict Gas flaring to < 1%.
<b>PPs Submission:</b> Complied Noted and followed as per norms.		Date: 30/04/2024
13	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential areas.
<b>PPs Submission:</b> Complied LED lightings has been provided in the offices and residential areas pics are as Annx. -46		Date: 30/04/2024
14	AIR QUALITY MONITORING AND PRESERVATION	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions
<b>PPs Submission:</b> Complied As per CPCB guidelines, port holes are provided for sampling at stacks for manual monitoring of emission. Photos of port hole attached as Annx. -28		Date: 30/04/2024
15	MISCELLANEOUS	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).
<b>PPs Submission:</b> Complied Agreed and complied.		Date:

			01/05/2024
16	MISCELLANEOUS	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.	
<b>PPs Submission:</b> Being Complied Noted and complying.			Date: 01/05/2024
17	MISCELLANEOUS	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.	
<b>PPs Submission:</b> Complied Agreed and Noted.			Date: 01/05/2024
18	MISCELLANEOUS	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	
<b>PPs Submission:</b> Complied Agreed and Noted.			Date: 01/05/2024
19	MISCELLANEOUS	The Regional Office of this Ministry shall monitor compliance of the stipulated condition nos. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	
<b>PPs Submission:</b> Complied Agreed and Noted.			Date: 01/05/2024
20	AIR QUALITY MONITORING AND PRESERVATION	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.	
<b>PPs Submission:</b> Complied Conveyor, transfer point, junction point is totally covered with GI sheets. Annx. - 29 pics of Covered storage area with GI sheet. Dust suppression system and extraction system with bag filters have already installed. Annx. – 30 as pics of all Air Pollution Control (APC) system, bag filters. For the existing induction furnaces, suction hood already provided but at presently SMS unit closed due to some functrion problem and the same will be provided for the proposed project as per CPCB norms. Annx. – 31 (pics of three hood at sms }			Date: 30/04/2024
21	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	
<b>PPs Submission:</b> Being Complied Noted.			Date: 30/04/2024

22	AIR QUALITY MONITORING AND PRESERVATION	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly
<b>PPs Submission:</b> Complied Housekeeping work for plant roads, shop floors and roofs are being done regularly and will be done on regular basis. Road Sweeping machine is also deployed for Housekeeping. Annx.-32 Scanned copy of purchase order Annx. -33 Copy of payment conformation mail Annx. -34 Pics of road sweeping machine		Date: 30/04/2024
23	WASTE MANAGEMENT	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.
<b>PPs Submission:</b> Complied Oil Collection pits and Oil collection trays are provided.		Date: 01/05/2024
24	AIR QUALITY MONITORING AND PRESERVATION	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
<b>PPs Submission:</b> Complied We use leak proof trucks/ dumpers & while transporting coal & other raw materials use tarpaulin to cover. Annx. -35 (Pics of tarpaulin covered transporting vehicles)		Date: 30/04/2024
25	GREENBELT	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 capture, use and storage and 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 monitor able with defined time frames.
<b>PPs Submission:</b> Being Complied Noted. GHG emissions inventory for the plant and the programme for reduction of the same including carbon sequestration by trees report is under preparation and shall be submitted within 6 months.		Date: 30/04/2024
26	AIR QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Complied Iron ore fines, coal and other fines, lime fines are collected from the pollution control devices and vacuum cleaning devices and utilized in the process.		Date: 30/04/2024
27	ENERGY PRESERVATION MEASURES	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
<b>PPs Submission:</b> Complied During project expansion when torpedo ladle will be used for the hot metal transfer, If ladles not used, covers for open top ladles will be used.		Date: 01/05/2024
28	ENERGY PRESERVATION MEASURES	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

<p><b>PPs Submission:</b> Being Complied Noted &amp; we plan to installed solar pannels on roof top of the administrative Block and other buildings.</p>		<p>Date: 30/04/2024</p>
29	AIR QUALITY MONITORING AND PRESERVATION	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
<p><b>PPs Submission:</b> Complied Noted. Wind shelter fence already installed around stock yard to reduce fugitive emission. Annx. – 36 ( Pics of Wind shelter Fence)</p>		<p>Date: 30/04/2024</p>
30	WATER QUALITY MONITORING AND PRESERVATION	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
<p><b>PPs Submission:</b> Complied Sewage Treatment Plant has already been commissioned to treat the domestic waste water and treated waste water will be used for green belt development. Annx. – 40 (Commissioning certificate of STP) Annx.- 41 (Pics STP)</p>		<p>Date: 30/04/2024</p>
31	WATER QUALITY MONITORING AND PRESERVATION	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
<p><b>PPs Submission:</b> Complied Garland drains and collection pits has been provided to arrest the run-off water. Annx.-42</p>		<p>Date: 30/04/2024</p>
32	WATER QUALITY MONITORING AND PRESERVATION	Tyre washing facilities shall be provided at the entrance of the plant gates.
<p><b>PPs Submission:</b> Complied Wheel Washing System is already installed at the entrance of the plant. Annx.-43 Pics of Wheel washing system</p>		<p>Date: 30/04/2024</p>
33	WASTE MANAGEMENT	Kitchen waste shall be composted or converted to biogas for further use.
<p><b>PPs Submission:</b> Complied Kitchen Waste shall be composed, utilized for gardening &amp; green belt as fertilizer. Annx. -48 Pic of the pit for composed</p>		<p>Date: 30/04/2024</p>
34	Human Health Environment	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
<p><b>PPs Submission:</b> Complied Emergency preparedness plan and Disaster Management Plan has been prepared and approved by Chief Factory Inspector. The Plan is implemented accordingly.</p>		<p>Date: 30/04/2024</p>
35	Human Health Environment	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.
<p><b>PPs Submission:</b> Complied Personal Protective Equipments (PPEs) has been provided to the workmen working in heat area and high temperature work zone. Annx. -49 (Pic)</p>		<p>Date: 30/04/2024</p>

36	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
<b>PPs Submission:</b> Complied Regular health check up of the workers is regularly carried out and record is being maintained as per the Factories Act. Report attached as Annx.-50		<b>Date:</b> 30/04/2024
37	Corporate Environmental Responsibility	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. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
<b>PPs Submission:</b> Being Complied Noted and shall be complied.		<b>Date:</b> 30/04/2024
38	GREENBELT	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
<b>PPs Submission:</b> Being Complied GHG emissions inventory for the plant and the programme for reduction of the same including carbon sequestration by trees report is under preparation and shall be submitted within 6 months. We have already developed 35 hectares out of total 103-hectare land under possession, as a green belt. Green belt report and plantation pics are depicted in Annx.-1.		<b>Date:</b> 30/04/2024
39	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied Please find attached copy of the news Paper cuttings regarding the environmental clearance granted for the Expansion. Annx. - 56		<b>Date:</b> 30/04/2024
40	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied Attached Acknowledged copies to the Sarpanch, Panchayat Etc. Annx. -57		<b>Date:</b> 30/04/2024
41	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied Noted and complied.		<b>Date:</b> 30/04/2024
42	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied Display of ambient parameters (PM10, SO2, NOX) at main gate entrance and display at Website has also been done.. Annx. -58.		Date: 30/04/2024
43	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied Uploaded 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. Annexed as Six Monthly compliance Report		Date: 01/05/2024
44	MISCELLANEOUS	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
<b>PPs Submission:</b> Complied Blast Furnace and Sinter Plant production activities started on 08th January 2024, after After complying various stipulated conditions like Commissioning of ETP, installation of Online Continuously Emission Monitoring System (CEMS ) at BF and Sinter Stacks. Commencement of BF and Sinter activities was informed to the the Regional Office as well as the Ministry. Copy of the intimation letter attached as Annx. 60		Date: 01/05/2024
45	MISCELLANEOUS	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.
<b>PPs Submission:</b> Being Complied Agreed and complying.		Date: 01/05/2024
46	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
<b>PPs Submission:</b> Complied Agreed and Noted.		Date: 01/05/2024
47	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied Agreed and Noted.		Date: 01/05/2024
48	MISCELLANEOUS	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.

**PPs Submission:** Complied

We submitted the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board and put on the website of the company.Uploaded on the Company Website and attached as Annx. - 59

Date:  
01/05/2024

**Visit Remarks**

**Last Site Visit Report Date:**

N/A

**Additional Remarks:**



Your (**Environment Clearance**) application has been **Submitted** with following details

<b>Proposal No</b>	IA/CG/IND/276148/2020
<b>Compliance ID</b>	38108383
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/38108383/2024
<b>Reporting Year</b>	2024
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	02-05-2024
<b>IRO Name</b>	Shri Chaturbhuja Behera
<b>IRO Email</b>	jk082@ifs.nic.in
<b>State</b>	CHHATTISGARH
<b>IRO Office Address</b>	Integrated Regional Offices, Raipur

**Note:-** SMS and E-Mail has been sent to Shri Chaturbhuja Behera, CHHATTISGARH with Notification to Project Proponent.



Ref. ISL/ENV/2023-24/April/EC compliance

Date:01.05.2024

To,

Regional Officer,  
Integrated Regional office, MOEF & CC,  
Raipur C.G.

**Subject:-** Six Monthly compliance to Expansion of Integrated Mini Steel Plant by M/s. Ind Synergy Ltd. for Sponge Iron Plant from 3,00,000 to 6,30,000TPA, Power Plant from 24 to 99MW, SMS from 1,40,000 to 4,40,000TPA, Coal Washery from 7,20,000 to 9,00,000TPA, Iron ore crusher- 14,40,000TPA & new units: Cold Pigs- 3,00,000TPA, Sinter Plant- 4,40,000TPA, Blast Furnace- 3,00,000TPA, Pellet Plant- 6,00,000TPA, Rolling Mills-5,00,000TPA, Ductile Pipe Plant- 2,00,000TPA, Oxygen Plant- 70TPD, Ferro Alloy Plant- 30,000TPA & Cement Grinding- 0.5 MTPA, located at Village Kotmar and Mahuapalli, Raigarh Tehsil, Raigarh District, Chhattisgarh- Consideration of Environmental Clearance. reg.

Ref. :- **EC No. EC22A008CG123155 and File No. J-11011/170/2007-IA.II(I) and Date- 06.10.2022**

Sir,

With reference to the Expansion of Integrated Mini Steel Plant (Phase III) by M/S Ind Synergy Ltd., comprehensive compliance report in respect of all the stipulated conditions of EC with the compliance status is as below: -

**A. Specific Conditions**

S.N.	Conditions	Status as on date i.e.,25.04.24
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.	Noted. We shall comply with all the environmental Protection measures and 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.	Green Belt developed over an area of 34.2 Ha with 93556 Plants to capture carbon emitted and demonstrate to be green belt is used as carbon sink/carbon sequestration resources capable of capturing emitted carbon. Plantation monitoring and evaluation report attached as <b>Annx.-1</b> Study is being conducted by a third Party to assess technologies for capturing of carbon emitted. Currently already developed GreenBelt is used as carbon sink / carbon sequestration resources Within six months, Study Report of Carbon sequestration will be submitted to the IRO, MoEF & CC in this regard.
iii	Sapnal Nala (Kharkhari River) is located at a distance of about 710 m in the north eastern side of the plant site. Mitigation measures to protect the Sapnal Nala shall be implemented as submitted by PP.	A thick green belt is provided along the boundary facing towards Kharkhari River to protect the Sapnal Nala with respect to mitigation measures. <b>Annx. -2</b> (Pics of plantation along the boundary facing towards Sapnal Nala)

For, IND SYNERGY LTD.

07762 262526  
62626 37575

isl@indsynergy.com

Regd. Off. / Factory: Village Kotmar, mahuapalli,  
Gharghora Road, Raigarh, Chhattisgarh, 496001

iv	Total water requirement of 12,237 m <sup>3</sup> /day after expansion shall be obtained from Sapnai river. No additional GW abstraction is permitted.	Total water requirement shall not exceed to 12,237 m <sup>3</sup> /day water quantity. Average per day consumption is <b>585.52 L</b> & the bill for water consumption (of last six months from June 2023 to December 2023) is attached as <b>Annx.- 3</b> . No ground water is being used for the industrial purpose.
v	Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.	Coal rejects from the washery is being used in the Captive Power plant.
Vi	<p>Solid waste utilization</p> <p>a. 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 lime in cement making.</p> <p>b. PP shall recycle/reuse 100 % solid waste generated in the plant.</p> <p>c. Used refractories shall be recycled as far as possible.</p>	<p>We have already installed and operating a slag crusher unit and pics are attached as <b>Annx. -4</b></p> <p>Two units of Fly ash brick plant are operational and Fly ash bricks will be used for the construction activities of the expansion pics attached as <b>Annx. -5, Annx.- 6</b> respectively.</p> <p>Crushed slag is provided to the interested parties and / or to the Barbarik Project Pvt. an infrastructure developing company, to utilize in the Road making and other projects. Copy of the executed MOU (with MSP Steel, MSP Sponge, Raigarh Ispat, and Barbrick) are attached as <b>Annx.- 7, 8, 9, 10</b> and sale register of Slag, Dolochar as <b>Annx. -11</b></p> <p>We propose to set up cement grinding unit (PPC PSC) of 500000 TPA capacity, wherein 100% generated slag from SMS and granulated slag from Blast Furnace shall be utilized in house.</p> <p>Used refractories shall be recycled and utilised as far as possible.</p>
vii	Secondary fume extraction system shall be installed on converters of Steel Melting Shop.	While installation of SMS converters, Secondary fume extraction system shall be installed on converters of Steel Melting Shop.
viii	Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.	Sinter Plant is equipped with recycling facility, all the waste & fines generated in sinter plant will be recycled in sinter plant itself and the pics are attached as <b>Annx. - 12</b> Suitable technology will be installed or followed for dioxins and furans emissions after plant reopen.
ix	Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450m <sup>3</sup> ), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.	Top Recovery turbine is not feasible as our Mini-Blast Furnace is of only 260 m <sup>3</sup> useful volume capacity, whereas Top Recovery Turbine is feasible with the capacity of more than 450 m <sup>3</sup> .  Blast Furnace is equipped with Dry gas cleaning plant, Slag Granulation system, cast House, stock house and all are in place and equipped with proper ventilation. Pics are given in <b>Annx. -13</b>

For, IND SYNERGY LTD.

Head Corporate Affairs

x	Submerged Arc/Electric Arc Furnace shall be closed type with 4 <sup>th</sup> hole extraction system.	Noted. While installing Submerged Arc/Electric Arc Furnace, it will be closed type with 4 <sup>th</sup> hole extraction system
xi	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. 100 % hot charging to ensure energy conservation.	Noted. While installing SMS and Rolling Mill , it will be ensured that 85-90 % of billets will be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas. 100 % hot charging to ensure energy conservation.
xii	Dust emission from Steel Plant stacks shall be up to 30 mg/Nm <sup>3</sup> .	Noted & followed Dust emission from stacks are below 30 mg/Nm <sup>3</sup> . Attach report as <b>Annx.-14</b>
xiii	Three tier Green Belt shall be developed in a time frame of one year in atleast 33% of project area 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. 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. ISL shall increase the density of plantation from 1000 tree/ha to 2500 tree /ha by taking up gap plantation. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	Existing green belt has been developed in <b>34.2</b> Ha which is more than 33% of the project Area. We have already planted around <b>93000</b> Nos. of trees. Thick green belt of width of 10 m along the boundary has been developed. Species are planted in consultation with the local DFO. ISL already achieved the density of plantation to 2500 trees/ ha by taking up gap plantation and in future it will be maintained by ISL team. Plantation audit report by Nav Aasta attached as an <b>Annx.-1</b>
xiv	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Noted and complied. A few Pics of plantation within the plant is attached as an <b>Annx.-15</b> .
xv	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.	Noted and complied. Report of performance test of pollution control equipment has been submitted to Regional Office of the MoEF&CC. <b>Annx-16</b> .
xvi	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	We have implemented rain water harvesting system in the plant. The water collected from the various areas is routed to rainwater harvesting pond provided in the plant. In addition to the above, rainwater harvesting pits are provided to collect the roof top rain water from various buildings. Pics of rainwater harvesting pits are attached as <b>Annx.-17</b>
xvii	The proposed project shall be designed as "Zero Liquid Discharge" Plant. No waste water will be discharged outside the plant boundary.	Waste water generated from the plant will be treated in effluent treatment plant (ETP) and after treatment for ensuring water quality, online EQMS installed & also compliance with the CECB norms, the treated effluent will be utilized for process, cooling, dust suppression and for green belt development. Pics of ETP, PTZ camera, online EQMS and flowmeter & online EQMS Data as <b>Annexure 18</b> .  Company follows zero discharge liquid system & will be maintained in the future too.
xviii	As committed the project proponent shall adopt 4 Nos of villages namely Mohuapali, Kotmar, Siarpali and Karichchapar and implement a robust action plan to develop the villages in model villages.	The company has adopted 4 Nos. of villages namely Mahuapali, Kotmar, Siarpali and Karichchapar villages located within the 5 km radius of the plant and will develop these villages into model villages with a budget

For, **IND SYNERGY LTD.**

Head Corporate Affairs

		<p>of 25 lakhs/annum for each village for the next five years.</p> <p>In the year 2023 we organized numerous environmental awareness programmes at Primary &amp; middle school of 4 near by villages where we distributed stationary, snacks, trees for plantation etc. &amp; also give 1 no. of desktop to primary school Kotmar &amp; 1 no of Laptop to middle school of Kotmar.</p>
xix	Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.	<p>Noted and agreed.</p> <p>BF and Sinter production activities started on 08<sup>th</sup> January 2024 for a brief period. Management decided to temporarily shut down the both units due to financial non-viability of Pig Iron costing. As soon as BF and Sinter production activities re-starts and production stabilises, we will carry put Dioxine &amp; Furan monitoring as per noms.</p> <p>Currently, we don't have cement kiln stacks at our plant either.</p>
xx	De SOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm <sup>3</sup> by using best available technology.	Noted and agreed.
xxi	Petcoke dosing shall be controlled automatically to control SO2 emission from chimney within the prescribed limits.	Noted and agreed.
xxii	Air cooled condensers shall be used in the power plant.	<p>Noted.</p> <p>For the future expansion, Air cooled condensers shall only be used in the power plants.</p>
xxiii	A proper action plan must be implemented to dispose of the electronic waste generated.	Generated electronic waste is provided / sold to the authorized dealers/recyclers for disposal. <b>Annexure -19</b> (Certificate of e- waste sell)
xxiv	The Unit is existing and using quartzite, coal and coke. Therefore, the industry is recommended to <u>measure silica and coal dust exposures</u> using personal and area air samplers in process plants and to be compared with Permissible exposure limits as per Indian Factories Act, 1948. Report to be submitted to the IRO, MoEFCC.	<p>As per Indian Factories Act, 1948, silica and coal dust exposures using personal and area air samplers in process plants has been measured and found to be within the prescribed limits.</p> <p>Pics of different locations where sampling done &amp; report attached in <b>Annx. 20</b>.</p>
Xxv	All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF & CC.	Implemented and action Plan is under progress.
xxvi	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical	<p>Gazette notification, The Plastic Management Rules will be followed and observed.</p> <p>Awareness shall be created among people working within the Project area by workshops and posters as well as in the surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021.</p>

For, IND SYNERGY LTD.

Head Corporate Affairs

guidelines issued by the CPCB in this regard is available at <https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents.

Measures taken- We collected solid wastes & plastic waste from colony in 2 different garbage dustbin box (One for biodegradable waste & the other for non biodegradable waste) regularly. We compost biodegradable waste in a pit then after composting we use as organic fertilizer for green belt, plantation. For non degradable waste & plastic waste we disposed them with the help of local housekeeping vendors in regular interval of time period. We also conducted awareness programs & displayed posters for stop plastic use. Posters for awareness programme to stop use of Plastics attached in **Annx. - 21.**

xxvii The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

Noted.  
 ESP & Bag filters are installed to control air pollution at various sources from where emission produced. For control of Stack emission we have installed ESP and all the stack heights are constructed as per CPCB Specification/norms. Particulate matter emission is well within the prescribed limits & online monitoring system also installed & the real time data also displayed at CECC & CPCB Portal directly.  
 Like for DRI 1, 2, & 3 unit- total 3 no. of ESP, total 5 no. of Bag filter unit PSB 1, 2, & for kiln 1, 2, 3 for each,  
 For Blast furnace - 2 no. of Bag filter unit, 1 set of gas cleaning plant,  
 For Sinter plant -1 no. of ESP, 1 no. of Bag filter unit, 1 no of Fume dedusting unit are installed,  
 For the existing induction furnaces (SMS) - 3 no.s of suction hood already provided as per CPCB norms.  
 We followed some SOP For control of Fugitive dust emission. Like for raw material handling plant - Conveyor, transfer point, junction point, is totally covered with GI sheets. We operate crusher, ash silo, crusher as per norms and followed our SOP so that we can control or minimized emission. For further suppression of dust, Sprinklers, fog system with bag filter unit installed & also for Road Transportation tarpaulin covered vehicles/trucks are used, also we have our own Railway siding where we use mechanically covered wagons for transportation.  
 For raw material handling plant -Conveyor, transfer point, junction point, is totally covered with GI sheets. For further suppression of dust, Sprinklers, fog system with bagfilter unit installed & also for road transportation tarpaulin covered vehicles/trucks are used, also we have our own railway siding where we use mechanically covered wagons for transportation.  
 Pics of bagfilters, ESPs & Suction hoods are attached in **Annx. -22.**  
 PUC certificate of vehicles attached as **Annx. - 23** & Railwaysiding pics as **Annx.-24.**

**B. General conditions**

S.N.	Conditions	Status
i	Statutory compliance:	Noted and Agreed

For, IND SYNERGY LTD.  
  
 Head Corporate Affairs

	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.	
<b>II</b>	<b>Air quality monitoring and preservation</b>	
i	The project proponent shall install 24x7 continuous emission monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 <sup>st</sup> March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30 <sup>th</sup> May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7 <sup>th</sup> 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.	We have already installed <b>five</b> Nos. of continuous emission monitoring system and one No. of ambient air quality monitoring station for measuring the air quality. The CEMS & AAQMS are already integrated with the SPCB & CEGB server. It's pertinent to mention that BF and Sinter are temporarily shut down. <b>Annx. - 25.1, 25.2, 25.3</b> Pics of CEMS station, real time data and id, password.
ii	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Fugitive emission and Ambient Air quality monitoring reports from NABL accredited laboratories are attached as <b>Annx.-26 &amp; Annx. - 27</b> respectively.
iii	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	As per CPCB guidelines, port holes are provided for sampling at stacks for manual monitoring of emission. Photos of port hole attached as <b>Annx. -28</b>
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.	Conveyor, transfer point, junction point is totally covered with GI sheets. <b>Annx. - 29</b> pics of Covered storage area with GI sheet. Dust suppression system and extraction system with bag filters have already installed. <b>Annx. - 30</b> as pics of all Air Pollution Control (APC) system, bag filters. For the existing induction furnaces, suction hood already provided but at presently SMS unit closed due to some function problem and the same will be provided for the proposed project as per CPCB norms. <b>Annx. - 31</b> (pics of three hood at sms)
v	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Noted.
vi	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Housekeeping work for plant roads, shop floors and roofs are being done regularly and will be done on regular basis. Road Sweeping machine is also deployed for Housekeeping. <b>Annx.-32</b> Scanned copy of purchase order

For, IND SYNERGY LTD.

Head Corporate Affairs

		<b>Annx. -33</b> Copy of payment conformation mail <b>Annx. -34</b> Pics of road sweeping machine
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.	Iron ore fines, coal and other fines, lime fines are collected from the pollution control devices and vacuum cleaning devices and utilized in the process.
viii	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	We use leak proof trucks/ dumpers & while transporting coal & other raw materials use tarpaulin to cover. <b>Annx. -35</b> (Pics of tarpaulin covered vehicles transporting raw material)
ix	Wind shelter fence and chemical spraying shall be provided on the raw material stockpiles.	Noted. Wind shelter fence already installed around stock yard to reduce fugitive emission. <b>Annx. - 36</b> ( Pics of Wind shelter Fence)
x	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Noted and agreed
<b>III</b>	<b>Water quality monitoring and preservation</b>	
i	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 31 <sup>st</sup> March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30 <sup>th</sup> May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7 <sup>th</sup> 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.	Continuous 24x7 effluent monitoring system, connected to the online server of CECB installed. Online effluent monitoring systems (EQMS) pics, PTZ Camera, flowmeter, & real time datais attached in <b>Annx .18</b> , respectively. PO of Online EQMS attached as <b>Annx.-37</b> & Comisioning certificate of EQMS as <b>Annx.- 38</b>
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.	We have already installed Piezometer.  Report of Ground water quality monitoring report from Govt.agency/ NABL accredited laboratories attached as <b>Annx. -39</b> .
lii	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Sewage Treatment Plant has already been commissioned to treat the domestic waste water and treated waste water will be used for green belt development. <b>Annx. - 40</b> (Commissioning certificate of STP) <b>Annx.- 41</b> (Pics STP)
iv	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface runoff.	Garland drains and collection pits has been provided to arrest the run-off water. <b>Annx.-42</b>

For, IND SYNERGY LTD.

Head Corporate Affairs

v	Tyre washing facilities shall be provided at the entrance of the plant gates.	Wheel Washing System is already installed at the entrance of the plant. <b>Annx.-43</b> Pics of Wheel washing system
vi	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Noted and agreed. <b>Annx. – 44</b> Water meters for various units.
<b>IV</b>	<b>Noise monitoring and prevention</b>	
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.	Noise monitoring will be done as prescribed schedule and it will be submitted to the Regional Officer of the ministry. Copy of attached Noise Report is in <b>Annx. -45.</b>
<b>V</b>	<b>Energy Conservation measures</b>	
i	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	During project expansion when torpedo ladle will be used for the hot metal transfer, If ladles not used, covers for open top ladles will be used.
ii	Restrict Gas flaring to < 1%.	Noted and followed as per norms.
iii	<u>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.</u>	Noted & we plan to installed solar pannels on roof top of the administrative Block and other buildings.
iv	Provide LED lights in their offices and residential areas.	LED lightings has been provided in the offices and residential areas pics are as <b>Annx. -46</b>
v	Ensure installation of regenerative/recuperative type burners on all reheating furnaces.	Noted. While installing reheating furnaces in the course of Expansion, egenerative/recuperative type burners will be installed.
<b>VI</b>	<b>Waste management</b>	
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.	Noted. Lubrication shed constructed at main store area. <del>Annx. -47 pics of Lubrication shed at main store.</del>
ii	Kitchen waste shall be composted or converted to biogas for further use.	Kitchen Waste shall be composed, utilized for gardening & green belt as fertilizer. <b>Annx. -48</b> Pic of the pit for composed
<b>VII</b>	<b>Green Belt</b>	
i	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	GHG emissions inventory for the plant and the programme for reduction of the same including carbon sequestration by trees report is under preparation and shall be submitted within 6 months. We have already developed 35 hectares out of total 103-hectare land under possession, as a green belt. Green belt report and plantation pics are depicted in <b>Annx.-1.</b>
ii	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 capture, use and storage and 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	Noted. GHG emissions inventory for the plant and the programme for reduction of the same including carbon sequestration by trees report is under preparation and shall be submitted within 6 months.

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	pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	
<b>VIII</b>	<b>Public hearing and Human health issues</b>	
i	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan and Disaster Management Plan has been prepared and approved by Chief Factory Inspector. The Plan is implemented accordingly.
ii	The project proponent shall carry out <u>heat stress analysis for the</u> workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Personal Protective Equipments (PPEs) has been provided to the workmen working in heat area and high temperature work zone. <b>Annx. -49 (Pic)</b>
iii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Regular health check up of the workers is regularly carried out and record is being maintained as per the Factories Act. Report attached as <b>Annx.-50</b>
<b>IX</b>	<b>Environment Management</b>	
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. As part of <b>Corporate Environment Responsibility (CER) activity</b> , company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	Noted and shall be complied.
ii	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for <b>standard operating procedures</b> 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.	The environmental policy approved by Board of Directors is attached as <b>Annx. -51</b>  For the protection of wild animals, Wild Life Conservation Action Plan has been prepared and was approved by the Chief Wild Life Warden. <b>Annx. - 52</b> (Copy of the Approval letter)  Rs. 36.20 Lakhs has been deposited to DFO Raigarh office on dated 16/02/2023 towards the implementation of the approved Wild life Conservation plan. <b>Annx. -53(Copy of the Rs 36.20 Lakhs deposition letter)</b>
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 report to the head of the organization.	The company has formed a separate Environmental Management Cell with qualified personnel and Environmental Lab has also been set up. <b>Annx. -55</b> copy of the Environmental Management Cell
<b>X</b>	<b>Miscellaneous</b>	
i	The project proponent shall make public the environmental clearance granted for their project	Please find attached copy of the news Paper cuttings regarding the environmental clearance granted for the Expansion.

For, IND SYNERGY LTD.

Head Corporate Affairs

	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.	Annx. - 56
ii	The copies of the environmental clearance shall be submitted by the project proponent 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.	Attached Acknowledged copies to the Sarpanch, Panchayat Etc. <b>Annx. -57</b>
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.	Noted & complied. Annexed screenshot of the uploaded status of compliance Report and monitored data.
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.	Display of ambient parameters (PM10, SO2, NOX) at main gate entrance and display at Website has also been done.. <b>Annx. -58.</b>
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.	Uploaded 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.  <b>Annexed as Six Monthly compliance Report</b>
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.	We submitted the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board and put on the website of the company. Uploaded on the Company Website and attached as <b>Annx. - 59</b>
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.	Blast Furnace and Sinter Plant production activities started on 08 <sup>th</sup> January 2024, after After complying various stipulated conditions like Commissioning of ETP, installation of Online Continuously Emission Monitoring System (CEMS) at BF and Sinter Stacks. Commencement of BF and Sinter activities was informed to the the Regional Office as well as the Ministry. Copy of the intimation letter attached as <b>Annx. 60</b>
viii	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public	Agreed and complying.

For, IND SYNERGY LTD.

Head Corporate Affairs

	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).	Agreed and complied.
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.	Noted and complying.
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.	Agreed and Noted.
xii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed and Noted.
xiii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed and Noted.
xiv	The Regional Office of this Ministry shall monitor compliance of the stipulated condition nos. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed and Noted.
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.	Agreed and Noted.

For, Ind Synergy Ltd.  
For, IND SYNERGY LTD.  
(Satydeep Sahukar)  
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c.c.

1. Director, IA-Monitoring Cell, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi –110 003
2. Member Secretary, Industry-I, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi –110 003.
3. Member Secretary, Chattisgarh Environment Conservation Board, Paryavaran Bhawan, North Block, Sector 19, Naya Raipur (CG) 492002.