

Date: 31/05/2022

To,
The Regional Officer,
Ministry of Environment, Forest & Climate Change,
Room No. 407, Aranya Bhawan, Near CH-3 Circle, Sector-10A
Gandhinagar, Gujarat-382010

Subject: Half Yearly Compliance to Environmental Clearance of Welspun DI Pipes Ltd.

Ref.: Environmental Clearance F.No. J-11011/136/2015-IA-II(I) dated 22/03/2021.

Dear Sir,

With reference to above, we are submitting herewith the Half Yearly Compliance report of Welspun DI Pipes Ltd., Anjar, Kutch, Gujarat for the period of October 2021 to March 2022.

Thanking You.

Yours faithfully,

Vipin Kumar Singh,

For Welspun DI Pipes Ltd.,

Associate General Manager-Environment

CC:

- 1) Gujarat Pollution Control Board, Gandhinagar.
- 2) Regional Office , Central Pollution Control Board, Vadodara.

# Compliance Report of Environmental Clearance dated 22/03/2021 for Welspun DIP Ltd.

Sr. No.	Conditions	Compliance	
	c Condition	Compliance	
1	CEMS shall be provided on all process stacks and the signal shall be received in plant control room for central control of APCDs installed in the plant	We will install CEMS on all process stacks and the signal shall be received in plant control room for central control of APCDs installed in the plant and will transmit the details at CPCB/GPCB website online. Also report shall be submitted to Ministry and its Regional Office.	
2	Ventilation system for odour control in bitumen coating area shall be included.	Not applicable	
3	Zn dust monitoring in AAQ in DI plant shall be carried out.	Not applicable	
4	ETP shall be provided for DI plant exclusively with the provision of safe handling of hazardous waste generated in DI Plant	Point Noted & will be complied	
5	PM level from the stacks shall be less than 30 mg/Nm3	Point noted and will be complied	
6	100 % use / recycle of solid waste generated in DI plant shall be ensured.	Point noted and will be complied	
7	Tree density in Green belt shall be 2500 trees per ha. WDI Plant shall have 36.6 % green belt as committed by PP	We shall follow the Standards issuedby the Ministry vide G.S.R. No. 277(E) dated 31st March, 2012 regarding integrated iron and steel plant.	
8	Both plants shall have their independent green belts	Point noted and will be complied	
9	Validity of split ECs shall be from Feb 2017.	Point noted and will be complied.	
10	More efficient bags such as PTFE bags shall be used in the filter bag house and designed for 150% of normal design air flow	Not Applicable	
11		Not Applicable	
General	l condition		
I	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 frim 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		

1	The project proponent shall install 24*7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality	Point noted and will be complied.
	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	Three (3) nos. of CAAQMS has been installed for monitoring AAQ Parameters at Welspun City, Anjar. Installtion of CEMS is under progress.  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
	equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Environment (Protection) Act, 1986 or NABL accredited laboratories.
2	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.	Point noted and will be complied
3	The cameras shall be installed at suitable location for 24*7 recording of battery emissions on the both sides of coke oven batteries and videos shall be preserved for at least one-month recordings.	Not Applicable
4		
5	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	Point noted and will be complied
6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Point noted and will be complied
7	Secondary emission control system shall be provided at SMS Converters.	Not Applicable
8		
9	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.	Not Applicable.
10	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin	Not Applicable.

11	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based	Not Applicable.
	industrial vacuum cleaning facility).	
12	Land-based APC system shall be installed to	Not Applicable.
	control coke pushing emissions.	Two replications.
13	Monitor CO, HC and 02 in flue gases of the	Not Applicable.
	coke oven battery to detect combustion	T.L.
	efficiency and cross leakages in the	
	combustion chamber.	
14	Vapor absorption system shall be provided in	Not Applicable.
	place of vapour compression system for	
	cooling of coke oven gas in case of recovery	
15	type coke ovens.	
15	In case concentrated ammonia liquor is	Not Applicable.
	incinerated, adopt high temperature incineration to destroy Dioxins and Furans.	
	Suitable NOx control facility shall be	
	provided to meet the prescribed standards.	
16	The coke oven gas shall be subjected to	Not Applicable.
	desulphurization if the Sulphur content in the	1.001xppnouote.
	coal exceeds 1%.	
17	Wind shelter fence and chemical spraying	Not Applicable.
	shall be provided on the raw material stock	
	piles.	
18	Design the ventilation system for adequate air	Point noted and will be complied
	changes, as per. prevailing norms for all.	
19	tunnels, motor houses, Oil Cellars	
19	The project proponent shall install Dry Gas	Not Applicable.
	Cleaning Plant with bag filter for Blast Furnace and SMS converter	N .
20	Dry quenching (CDQ) system shall be	Not Applicable.
	installed along with power generation	Not Applicable.
	facility from waste heat recovery from hot	
	coke.	
III	Water Quality monitoring and	
	preservation	
1	The project proponent shall install 24x7	Point noted and will be complied
	continuous effluent monitoring system with	
	respect to standards prescribed in	
	Environment (Protection) Rules 1986 vide	
	G.S.R 277 (E) dated 315t 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	
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	recognized under Environment (Protection)		
	Act, 1986 or NABL accredited laboratories.		
2	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.	Point noted and will be complied	
3	The project proponent shall provide the ETP	Not Applicable	
for coke oven and by-product to meet the standards prescribed in 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 as amended from time to time;		Not Applicable.	
4	Adhere to 'Zero Liquid Discharge'	Point noted and will be complied	
5	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	The domestic sewage generation quantity is only 15 KLD & we will establish a soak pit & the over flow from the soak pit is used for gardening activities.	
6.	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.	Not Applicable.	
7	Tyre washing facilities shall be provided at the entrance of the plant gates.	Point noted and will be complied	
8	CO <sub>2</sub> injection shall be provided in GCP of SMS to reduce pH in circulating water to ensure optimal recycling of treated water for converter gas cleaning.	Not Applicable.	
9	The project proponent shall practice rainwater harvesting to maximum possible extent.	The company will develop rain water harvesting structures to harvest the rain.	
10	Treated water from ETP of COBP shall not be used for coke quenching.	Not Applicable.	
11	Water meters shall be provided at the inlet to all unit processes in the steel plants.	The water meter will install to all unit process in the steel plant.	
12	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Not Applicable.	
IV.	Noise monitoring and prevention		
1	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation And Control) Rules, 2000 and report in this regard	We will provide noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	

	possible.	age of the con-	
5	Used refractories shall be recycled as far as	Not Applicable	
4	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.	- I - I - I - I - I - I - I - I - I - I	
3	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.		
2	with coal charged in coke ovens		
	density of BF granulated slag from 1.0 to 1.5 Kg/1 shall be installed to use slag as river sand in construction industry.		
1	An attrition grinding unit to improve the bulk	Not Applicable.	
VI.	burners on all reheating furnaces.  Waste management	The state of the s	
11	residential areas.  Ensure installation of regenerative type	and residential areas.  Point noted and will be complied.	
10	common areas, street lights, parking around project area and maintain the same regularly;  Provide LED lights in their offices and	The company will provide LED lights in their offices	
9	Provide solar power generation on roof tops of buildings, for solar light system for all	Point noted and will be complied	
8	Restrict Gas flaring to < 1%.	Not Applicable.	
7	Explore feasibility to install WHRS at Waste Gases from BF stoves; Sinter Machine; Sinter Cooler, and all reheating furnaces and if feasible shall be installed.	Not Applicable.	
100	provided in all units where the flue gas or process gas exceeds 300°C.		
5	Use hot charging of slabs and billets/blooms as far as possible.  Waste heat recovery systems shall be	Not Applicable.  Not Applicable.	
4	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	Not Applicable.	
3	Waste heat shall be recovered from Sinter Plants coolers and Sinter Machines.	Not Applicable.	
2	Coke Dry Quenching (CDQ) shall be provided for coke quenching for the coke oven plant.	Not Applicable.	
1	The project proponent shall provide TRTs to recover energy from top gases of Blast Furnaces.	Not Applicable.	
$\mathbb{V}.$	compliance report.  Energy Conservation measures	dBA (daytime) and 70 dBA (nighttime)	
	shall be submitted to Regional Officer of the Ministry as a part of six-monthly	The ambient noise levels shall be conformed to th standards prescribed under EPA Rules, 1989 viz. 7.	

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6	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.	Not Applicable	
7	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Not Applicable	
8	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.	Point noted and will be complied	
9	Kitchen waste shall be composted or converted to biogas for further use.	Biogas plant shall be installed to handle kitchen waste. Gas will be used for canteen/kitchen use and solid manure will be used in plantation area	
VII.	Green Belt	-	
1	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.	Point noted and will be complied	
VIII.	Public hearing and Human health issues		
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Point noted and will be complied	
2	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Point noted and will be complied	
3	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Point noted and will be complied	
IX.	Corporate Environment Responsibility		
1	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.	Point noted and will be complied	



2	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 sixmonthly report.	Point noted and will be complied
3	A separate Environmental Cell both at the	Point noted and will be complied
	project and company head quarter level, with qualified personnel shall be set up under the	
	control of senior Executive, who will directly	
X.	to the head of the organization.  Miscellaneous	
1	The project proponent shall make public the	We have already Publish the EC in two local
	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.	newspapers.
2	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.	
3	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.	
4	The project proponent shall monitor the criteria pollutants level namely; PK°, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same	Point noted and will be complied

	at a convenient location for disclosure to the public and put on the website of the company.		
5	The project proponent shall submit sixmonthly 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.	The company will submit the six- monthly report.	
6	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State pollution control Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	We will submit the environmental statement for each financial year ending 31st March in Form-V to the concerned State Pollution Control Board.	
7	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	Point noted and will be complied	
8	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	Point noted and will be complied	
9	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).	Point noted and will be complied	
10	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.	Point noted and will be complied	
11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Point noted and will be complied	
12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Point noted and will be compliance.	
13	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.	Point noted and will be complied	

14	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.

Point noted and will be complied





Issue Date	07/03/2022
Report No.	SGEL/REP/2022/03/39

## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Name of Client/ Industry	M/s. Welspun DI Pipes Ltd.  Survey no. 617, 618, 632, 633, Welspun city, Village- Varsamedi, Tal: Anjar, Dist: Kutch-370110.			
Address				
Date of Sampling	02/03/2022 to 03/03/2022	Sampling Location	Near Rainwater Harvesting Area	
Sample Receipt Date	04/03/2022	Sample Description	Ambient Air (Sampling Duration: 24 Hrs.)	
Sample Analyzed and Completion Date	04/03/2022 to 05/03/2022	Quantity/No. of Samples	1-1 Filter paper and exposed scrubbing media / 04 Nos.	
Sample Collected By	SGEL Team	Packing/Seal	Packed/Sealed	
Sample ID	SGEL/2022/03/39	Protocol/Purpose	As per Work Order	

### **RESULT TABLE**

Sr. No.	Parameters	Unit	Results	Permissible Limit	Test Method
1	Particulate Matter (PM <sub>10</sub> )	μg/m³	59.4	100	IS 5182 (Part23): 2006
2	Particulate Matter (PM <sub>2.5</sub> )	μg/m³	38.6	60	IS 5182 (Part 24): 2019
3	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	21.4	80	IS 5182 (Part 2):2001
4	Oxides of Nitrogen (NO <sub>x</sub> )	μg/m³	37.6	80	IS 5182 (Part 6): 2006

ANALYZED BY

CHECKED BY

AUTHORISED SIGNATORY



Issue Date	07/03/2022
Report No.	SGEL/REP/2022/03/40

## TEST REPORT

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client/ Industry	M/s. Welspun DI Pipes Ltd.  Survey no. 617, 618, 632, 633, Welspun city, Village- Varsamedi, Tal: Anjar, Dist: Kutch-370110.				
Address					
Date of Sampling	02/03/2022 to 03/03/2022	Sampling Location	Near ETP Area		
Sample Receipt Date	04/03/2022	Sample Description	Ambient Air (Sampling Duration: 24 Hrs.)		
Sample Analyzed and Completion Date	04/03/2022 to 05/03/2022	Quantity/No. of Samples	1-1 Filter paper and exposed scrubbing media / 04 Nos.		
Sample Collected By	SGEL Team	Packing/Seal	Packed/Sealed		
Sample ID	SGEL/2022/03/40	Protocol/Purpose	As per Work Order		

#### **RESULT TABLE**

Sr. No.	Parameters	Unit	Results	Permissible Limit	Test Method
1	Particulate Matter (PM <sub>10</sub> )	μg/m³	64.5	100	IS 5182 (Part23): 2006
2	Particulate Matter (PM <sub>2.5</sub> )	μg/m³	42.7	60	IS 5182 (Part 24): 2019
3	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	31.4	80	IS 5182 (Part 2):2001
4	Oxides of Nitrogen (NO <sub>x</sub> )	μg/m³	45.6	80	IS 5182 (Part 6): 2006

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Issue Date	07/03/2022
Report No.	SGEL/REP/2022/03/41

## TEST REPORT

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client/ Industry	M/s. Welspun DI Pipes Ltd.				
Address	Survey no. 617, 618, 632, 633, Welspun city, Village- Varsamedi, Tal: Anjar, Dist: Kutch-370110.				
Date of Sampling	02/03/2022 to 03/03/2022	Sampling Location	Near Admin Office Area		
Sample Receipt Date	04/03/2022	Sample Description	Ambient Air (Sampling Duration: 24 Hrs.)		
Sample Analyzed and Completion Date	04/03/2022 to 05/03/2022	Quantity/No. of Samples	1-1 Filter paper and exposed scrubbing media / 04 Nos.		
Sample Collected By	SGEL Team	Packing/Seal	Packed/Sealed		
Sample ID	SGEL/2022/03/41	Protocol/Purpose	As per Work Order		

#### RESULT TABLE

Sr. No.	Parameters	Unit	Results	Permissible Limit	Test Method	
1	Particulate Matter (PM <sub>10</sub> )	μg/m³	51.3	100	IS 5182 (Part23): 2006	
2	Particulate Matter (PM <sub>2.5</sub> )	μg/m³	30.6	60	IS 5182 (Part 24): 2019	
3	Sulphur Dioxide (SO <sub>2</sub> )	μg/m³	18.6	80	IS 5182 (Part 2):2001	
4	Oxides of Nitrogen (NO <sub>x</sub> )	μg/m³	29.4	80	IS 5182 (Part 6): 2006	

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Issue Date	07/03/2022
Report No.	SGEL/REP/2022/03/38

## **TEST REPORT**

#### AMBIENT NOISE LEVEL MONITORING REPORT

Name of Client	M/s. Welspun DI Pipes Ltd.  Survey no. 617, 618, 632, 633, Welspun city, Village- Varsamedi, Tal: Anjar, Dist: Kutch-370110.				
Address					
<b>Monitoring Date</b>	02/03/2022	Monitoring Location	As per Table		
Description of Monitoring	Ambient Noise Level	Monitoring Done By	SGEL Team		
a	SCEL /2022/02/20	Protocol/Purpose	As per Work Order		
Sample ID	SGEL/2022/03/38	Reference Method	IS 9989: 1981 (Reaffirmed Year:2020)		

Sr. No.	Monitoring Location	Unit	Results		
			Ambient Noise Level (Day Time)		
			Min.	Max.	
1	Near Rain water harvesting area	dB(A)	68.1	71.3	
2	Near ETP Area	dB(A)	71.4	73.4	
3	Near admin office area	dB(A)	69.8	72.9	
Perm	issible Limit as per CPCB For Industrial Area	dB (A)	<7	5	

Note: Day Time: 6:00 am to 10:00 pm

PREPARED BY

CHECKED BY

AUTHORISED SIGNATORY

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