

Date: 23 /05/2024

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 Corp Ltd.

Ref.: WCL-EC Amendment, SEIAA/GUJ/EC/3(a) & 1(d)/1067/2023, date : 21.08.2023 (Earlier WCL-EC, SEIAA/GUJ/EC/5(f)/2338/2022, date : 15.10.2022 & WSL - EC , SEIAA/GUJ/EC/3(a) & 1(d)/83/2011, date : 30.05.2011)

Dear Sir,

With reference to the above subject, we are submitting herewith the Half Yearly Environment Clearance Compliance report of Welspun Corp Ltd. Anjar, Kutch, Gujarat for the period of October 2023 to March 2024.

Thanking You.

Yours faithfully,

For Welspun Corp Ltd (Steel Division)



Anand Pratap Singh

Dy. Manager (Environment & ESG)



Encl: As above

CC:

- 1) Gujarat Pollution Control Board, Parayavaran Bhawan Sector-10-A, Gandhinagar
- 2) Regional Office ,Central Pollution Control Board, Parivesh Bhawan, Aatmajyoti Ashram Road, Opp.-VMC Ward office No.10, Subhanpura, Vadodara, Gujarat-390023.

Welspun Corp Limited (Steel Division)

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E-mail: companysecretary_wcl@welspun.com | Website: www.welspuncorp.com

Registered Address: Welspun City, Village Versamedi, Taluka Anjar, District Kutch, Gujarat 370110. India

T: +91 28 3666 2222 | F: +91 28 3627 9060

Corporate Identity Number: L27100GJ1995PLC025609

**Half Yearly Environment Clearance Compliance Report For M/s Welspun Corp Limited,
Village: Versamedi, Taluka: Anjar, District: Kutch.**

**WCL-EC Amendment, SEIAA/GUJ/EC/3(a) & 1(d)/1067/2023, date : 21.08.2023 (Earlier
WCL-EC, SEIAA/GUJ/EC/5(f)/2338/2022, date : 15.10.2022 & WSL - EC ,
SEIAA/GUJ/EC/3(a) & 1(d)/83/2011, date : 30.05.2011)**

Sr. No.	Environment Clearance - Condition	Status
A	SPECIFIC CONDITIONS :	
1	Total Production of Sponge Iron for captive consumption and for sale shall not increase for existing 144000 MT/ Annum, in any case.	The production capacity is not increased for sponge iron i.e.-144000 MT/ Annum (As per amended EC).
A-1	WATER :	
2	Fresh water requirement shall not exceed 2869 KL/day after the proposed expansion and shall be met only through water supply from Gujarat Water Infrastructure Ltd. (GWIL). No ground water shall be tapped for the project requirements. Water meter shall be installed at the all water intake points and its records shall be maintained.	The water supply is fulfilled by GWIL. No ground water is being tapped for the project requirement.
3	The industrial effluent generation (from DM Plant Regeneration, Boiler Blow-down & cooling tower blow down) shall not exceed 179 KL/day after the proposed expansion.	The Industrial effluent generation of water is within the prescribed limit.
4	The industrial effluent after its pH correction shall be completely reused in sponge iron kiln cooling, green belt development, sprinkling on roads etc. There shall be no discharge of industrial effluent outside the factory premises in any cases.	We are re-using wastewater for Cooling of Kiln's Cooler, Dust suppression, sprinkling, gardening purpose.
5	Domestic Wastewater shall be disposed off through septic tank-soak pit.	The domestic wastewater is being disposed through a septic tank.
6	Rainwater harvesting of surface as well as rooftop runoff shall be undertaken, and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter.	We have made a pond for Rainwater harvesting. Rainwater is being collected in the same for the utilization.
A-2	AIR :	
7	Imported coal-125 MT/day & Coal-char 56 MT/day shall be used as fuel in the proposed AFBC Boiler (30 TPH).	Noted and are being complied.
8	FO-3.5 KL/Day & Gasifier Gas shall be used as a fuel in the Reheating Furnace. (03 Nos.)	Noted.
9	The AFBC Boiler shall be operated only when existing sponge iron kiln is not in operation (i.e. WHRB plant non operation phase) and hence total power generation shall not increase from existing 12 MW level in any case.	Noted & Being Complied.



10	Height of stack attached to induction Furnace (02 nos.) and Reheating Furnace (03 nos.) shall be at least 30 M and height of stack attached to AFBC Boiler shall be at least 47.24 M	Complied.
11	Bag Filters shall be provided as air pollution control system for induction Furnace (02 nos.) and Reheating Furnace (03 nos.). These bag filter shall be operated efficiently to achieve the norms prescribed by the GPCB at stack outlets.	Bag Filters have been provided as air pollution control system for Controlling Emission to achieve the norms prescribed by the GPCB at stack outlets.
12	High efficiency Electrostatic Precipitators (ESP) with efficiency not less than 99.9% shall be provided as air pollution control system for the AFBC Boiler. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceed the specified standard utilization of boiler capacity shall be reduced so that flue gas emission from the stack meets with the specified norms of boiler shall shut down totally.	High efficiency Electrostatic Precipitators (ESP) has been provided to maintain GPCB norms.
13	There shall be one extra field in the ESP to ensure that even though one field goes out of order, the efficiency of the ESP is not affected. In case of failure of two or more fields of the ESP, the unit shall immediately shut down the power plant.	Complied.
14	Online Monitoring System shall be installed on the boiler stack. This online monitoring system shall be interlocked with plant DCS system in such a manner that if concentration of particulate matter in flue gas emission exceeds the stipulated standard, utilization of boiler capacity shall reduce accordingly in order to bring down the particulate matter concentration below the stipulated standard. An arrangement shall also be done for reflecting the online monitoring results on the company's server which can be assessable by the GPCB on real time basis.	Complied.
15	The Company shall prepare schedule carry regular preventive Maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.	Complied.
16	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.	Point noted and are being complied. Fugitive emissions are being monitored in the work zone environment on regular intervals.
a.	Enclosure shall be provided at coal loading and unloading operation.	Complied.
b.	Water shall be sprayed on coal stock piles periodically to retain some moisture in top layer and also while compacting to reduce the fugitive emission.	Water Sprinkler System have been installed at Coal Storage area and water being sprayed on coal stock piles periodically to retain some moisture in top layer.
c.	All transfer points shall be fully enclosed.	All transfer points are fully enclosed.
d.	Accumulated dust on the ground and other surface shall be removed/swept regularly and water the area after sweeping,	Accumulated dust on ground are being swept on a regular basis and water is being sprinkled after sweeping.



e.	Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.	WCL Plant periphery road are well constructed with solid Tar to reduce the fugitive emission during vehicular movement.
f.	Air born coal dust shall be controlled with water sprinklers at suitable locations in the plant.	Water Sprinkler System are installed to control fugitive dust emission.
g.	Coal shall be transported through covered trucks only whereas fly ash shall be transported through closed trucks only.	Noted & are being complied.
17	Third party performance Evaluation of the air pollution control system including ESP shall be carried out at least once in a year to check its performance and efficiency through a reputed institute like NPC, LD Collage of Engineering or such other institute of similar repute, and its records shall be maintained.	Third party performance evolution of the air pollution control system including ESP are being carried out once in a year by M/s Royal Environment Consultancy Services and its records are being maintained.
18	Ambient air quality monitoring shall be carried out every month at three station at 180 degree and its records shall be maintained and furnished to the SEIAA & GPCB from time to time. If at any stage, any pollution is found to exceed the prescribe limit, necessary additional control measures shall be provided immediately.	Ambient air quality monitoring are being carried out every month & records are being maintained.
A-3	HAZARDOUS / SOLID WASTE :	
19	The company shall strictly comply with the rules and regulations with regards to handling and disposal of hazardous waste in accordance with the hazardous waste rules 2008, as may be amended from time to time. Authorization from the GPCB shall be obtained for collection/treatment/storage/disposal of hazardous wastes.	We are following the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016. We have obtained consolidated Consent & Authorization (CC&A) from Gujarat Pollution Control Board (GPCB) for collection /treatment / storage/disposal of hazardous wastes and Consent is valid up to 12.08.2025.
20	Hazardous waste sludge shall be packed and stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility, before its disposal.	Complied.
21	The discarded containers/barrels/bags/liners/ shall be sold only to the register recycler after decontamination.	The discarded containers/barrels/bags/liners/ are being sold only to the register recycler of Gujarat Pollution Control Board.
22	The used oil shall be sold to only to the registered recycler.	Used Oil are being sold to authorized registered recycler of Gujarat Pollution Control Board.
23	Ash pond shall not be constructed for the storage of the fly ash and the fly ash shall be stored in closed RCC silos only. The unit shall strictly comply with Fly Ash Notification under EPA and it shall be ensured that there is 100 % utilization of ash to be generated from the unit.	Noted and are being Complied.
24	Slag shall be utilized in brick manufacturing or road construction or sold as aggregate for construction activity.	Noted and are being Complied.
25	Mill scale shall be completely reused in the process.	Noted and are being Complied.
A-4	SAFETY :	

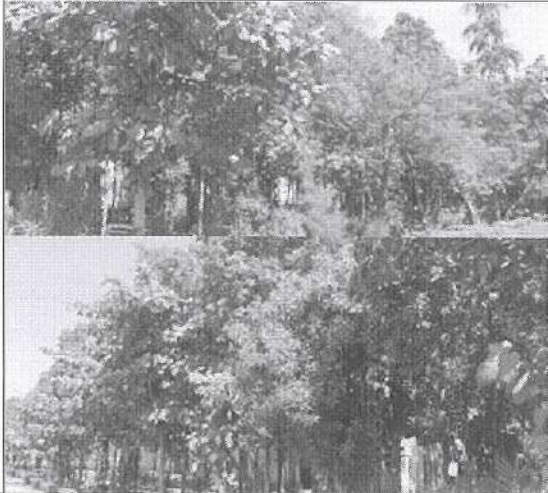


26	Fire Protection system based on National Fire Protection Association (NFPA) approved guideline shall be provided. It shall consist of fire hydrant system all-round the plant area and storage yards, high velocity water spray system for transformers, automatic fire detection and alarm, manual fire alarm system, portable fire extinguisher etc.	We have installed Fire Extinguishers at the surrounding area in the plant. We have 04 Nos. of Fire Tender and Emergency Teams at Welspun City.
27	Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised.	Personal Protective Equipment are being provided to workers and its uses are being insured & supervised. Safety Helmet & Safety shoes are mandatory for workers Other PPEs are being provided as per work place requirement.
28	First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity at all the times.	One Paramedical staff is deployed at First Aid Center. First Aid Box is available at each designated plant area.
29	Hazardous materials storage shall be at an isolated designed location. Storage and use of hazardous chemicals shall be minimized to extent possible and all necessary precaution shall be taken to mitigate the risk generated out of it.	Complied.
30	Storage of hazardous chemicals shall be multiple small capacity tanks/containers instead of on single large capacity tank of safety purpose.	Noted and are being Complied.
31	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dykes walls shall be provided for the storage tanks. Close handling system for chemicals shall be provided.	Noted.
32	All transporting routes within the factory premises shall paved roads to minimize splashes and spillages.	All transporting routes within the factory premises have been paved roads to minimize splashes and spillages.
33	All efforts shall be made for atomization of molten metal handling and human exposure to the molten metal shall be avoided as far as possible.	Noted and are being Complied.
34	Training shall be imparted to all the workers on safety and health aspects of molten metal handling heat stress etc to avoid its impact on human being.	Regular training is being imparted to all the workers on safety and health aspects of molten metal handling heat stress etc to avoid its impact on human beings.
35	Occupational health surveillance of the worker shall be carried out on regular basis and records shall be maintained as per factories Act and Rules. Pre-employment and periodical post-employment medical examination for all workers shall be undertaken as per the statutory requirements.	Noted and are being Complied.
36	At all the times, necessary tie up with the nearby doctor qualified / hospital for occupation health shall be made to ensure that the medical treatment is given within the shortest time in case of any adverse condition.	Noted and are being Complied.
37	Sufficient ventilation, exhausts shall be provided to maintain the temperature within the work area. Temperature indicators shall be provided at the vulnerable places in consultation with Directors of Safety and Health.	Noted and are being Complied.



38	The project management shall strictly comply with the provisions made in Manufacture Storage and Impact of Hazardous Chemical Rules, 1989 as amended 2000 for handling of hazardous chemical.	Noted.
39	All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act & Rules.	Noted and are being Complied.
40	The Project Management shall prepare a detailed Disaster Management Plan (DMP) for the project as per guideline from Directorate of Industrial Safety & Health.	Noted.
A-5	NOISE :	
41	To minimize the noise pollution the following noise control measures shall be implemented.	
a.	Selection of any new plant equipment shall be made with specification of the low noise levels.	Complied.
b.	Manufactures / suppliers of major noise generating machines/equipment like air compressor, feeder pumps, turbine generators, etc. shall be instructed to make required design modification wherever possible before supply and installation to mitigate the noise generation and to comply with national / international regulatory norm with respect to noise generation for individual units.	Noted.
c.	Regular maintenance of machinery and vehicle shall be undertaken to reduce the noise impact.	Noted and are being Complied.
d.	Noise Suppression measures such as enclosures, buffers and /or protective measures shall be provided.	Noted and are being Complied.
e.	Employees shall be provided with ear protection measures like earplug or earmuffs.	Noted and are being Complied.
f.	Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipment's to reduce noise generation.	Noted and are being Complied.
g.	Construction equipment generating minimum noise and vibration shall be closed.	Noted and are being Complied.
h.	Ear plugs and muffs shall be made compulsory for the construction worker working near the noise generating activities/machine/equipment.	Noted and are being Complied.
i.	Vehicle and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.	Noted and are being Complied.
j.	Construction equipment meeting the norms specified by EPA Act-1986 shall only be used.	Noted and are being Complied.
k.	Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.	Noted and are being Complied.
l.	Noise level shall be reduced by the use of adequate mufflers on all motorized equipment.	Noted and are being Complied.



42	The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencer, enclosures, vibration dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment Protection Act and Rules. Workplace noise levels for workers shall be as per the Factory Act & Rules.	Noted and are being Complied.
A-6	CLEANER PRODUCTION AND WASTE MINIMISATION :	
43	The unit shall undertake the cleaner production assessment study through a reputed institute/organization and shall form a CP team in the company. The recommendation thereof along with the compliance shall be furnished to the GPCB.	Noted.
44	The Company shall undertake following waste minimization measures.	
a.	Metering and control of quantities of actives ingredients to minimize waste.	Noted & are being Complied.
b.	Reuse of by-products from the process as raw materials or raw materials substitutes in other process.	Noted & are being Complied.
c.	Use of automated and enclosed filling to minimize spillages.	Complied.
d.	Use of close system.	Complied.
e.	Dry cleaning / mopping of floor instead of floor washing.	Complied.
f.	Use of high pressure hoses for equipment cleaning to reduce waste water generation.	Complied.
g.	Regular preventive maintenance for avoiding leakage, spillage etc.	Noted & being Complied.
A-7	GREEN BELT AND OTHER PLANTATION :	
45	The unit Shall develop green belt in at least 11.48 hectares area within premises as proposed. Green belt of average 15 M width comprising of rows of varying height tall trees with thick foliage shall be developed in the periphery of the factory premises.	
46	Drip irrigation system shall be used green belt development.	We have arranged the Water Tanker & Water Pipeline supply for green belt development.
47	The unit shall also take up adequate plantation at suitable open land on road side and other open areas in nearby villages or schools in consultation with the Gram Panchayat / GPCB and	Complied.



	submit an action plan for the same for next three years to the GPCB.	
B.	GENERAL CONDITIONS :	
48	In the event of failures of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	Noted & shall be Complied.
49	The company shall vigorously follow the recommendation mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the CPCB.	Noted.
50	All the issues raised in the public hearing shall be comprehensively addressed / complied with a time bound manner.	Complied.
51	The project proponent shall adhere to their commitments made during the public hearing held on 17/09/2010 viz. to incur Rs.42 crores towards socio-economics development, preference to local employment etc.	Complied.
52	A separate Environment Management Cell equipped with full-fledged laboratory facilities and qualified personal shall be set up to carry out the environment management and monitoring functions and a separates budget shall be allocated for this purpose.	Complied.
53	The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year wise expenditure on environment safeguards shall be reported.	Complied.
54	Pucca flooring / impervious bottom shall be provided in the work areas, chemical storage areas and chemical handling area to minimize soil contamination.	Complied.
55	Leakages from the pipes, pumps shall be minimal and if occurs shall be arrested promptly. During material transfer, spillages shall be avoided and garland drain be constructed.	Complied.
56	The project management shall also comply with all the recommendation made in the EIA/EMP report of the project and the undertaking submitted by the project Management.	Complied.
57	The applicant shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	Noted & shall be Complied.
58	No further expansion or modification in the plant shall be carried out without prior approval of the MoEF / SEIAA as the case may be. In case of deviations of alteration in the project proposal from those submitted to MOEF/SEIAA/SEAC for clearance, a fresh reference shall be made to the SEIAA/SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted & shall be Complied.



59	The project authorities shall earmark adequate funds to implement the condition stipulated by SEIAA as well as GPCB along with the implementation schedule for all the condition stipulated herein. The funds so provided shall not be diverted for any other purpose.	Complied.
60	The applicant shall inform the public that the project has been accorded environmental clearance by SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA/SEAC/GPCB. This shall be advertised within seven days from the date of clearance letter in at least two local Newspapers that are widely circulated in the region , one of which shall be in the Gujarati language and other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied.
61	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environment clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each Calendar year.	Noted & are being Complied.
62	The Project authority shall also adhere to the stipulations made by the GPCB.	Noted & shall be Complied.
63	The project authorities shall inform the GPCB , regional office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied.
64	The SEIAA may revoke or suspend the clearance, if implementation of any of the above condition is not found satisfactory.	Noted.
65	The above conditions shall be enforced Iner-alia under the provisions of the Water (Prevention & Control of Pollution) act-1974, Air (Prevention & Control of Pollution) act-1981. The Environment protection Act, 1986, Hazardous Waste Rules-2008 and the Public Liability Insurance Act-1991 along with their amendments and rules.	Noted & shall be Complied.





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Ph.: +91 9099919954 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No.: 70001/10/2023-24

Date : 30/10/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : **Welspun Corp Ltd - Steel Division**

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 1	Stack No. 2
01	Stack Attached to	---	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4
02	Date of Sampling	---	---	20/10/2023	20/10/2023
03	Time of Sampling	---	---	09:50	10:30
04	Air Pollution Control Measures	---	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	127	125.0
07	Ambient Temperature	° C	---	31	31.0
08	Average Velocity of Flue Gases	M/Sec.	---	7.2	7.5
09	Isokinetic flow rate for P.M. Sampling	LPM	---	20	20.0
10	P.M.	mg/Nm ³	100	52	53
11	SO ₂	mg/Nm ³	100	33	27
12	NO _x	mg/Nm ³	50	22	25

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On : 26/12/2022

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Analyst



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Ref. No.: 70002/10/2023-24

Date : 30/10/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 3	Stack No. 5
01	Stack Attached to	---	---	Boiler of CPP - 30 TPH	D. G. Set
02	Date of Sampling	---	---	--	--
03	Time of Sampling	---	---	--	--
04	Air Pollution Control Measures	---	---	ESP & Wet Scrubber	--
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	Not	Not
07	Ambient Temperature	° C	---	Running	Running
08	Average Velocity of Flue Gases	M/Sec.	---	During	During
09	Isokinetic flow rate for P.M. Sampling	LPM	---	Visit	Visit
10	P.M.	mg/Nm ³	150	---	---
11	SO ₂	mg/Nm ³	100	---	---
12	NO _x	mg/Nm ³	50	---	---

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022

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Ref. No.: 70003/10/2023-24

Date : 30/10/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 6	Stack No. 7
01	Stack Attached to	---	---	Iron Ore Crusher Screen House	Coal Crusher Screen House
02	Date of Sampling	---	---	20/10/2023	20/10/2023
03	Time of Sampling	---	---	11:15	12:00
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	57	59
07	Ambient Temperature	° C	---	31	31
08	Average Velocity of Flue Gases	M/Sec.	---	8.4	7.6
09	Isokinetic flow rate for P.M. Sampling	LPM	---	23	22
10	P.M.	mg/Nm ³	150	51	50

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On : 26/12/2022


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Ref. No. : 70004/10/2023-24

Date : 30/10/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 850,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 8	Stack No. 9
01	Stack Attached to	---	---	Stock House- 1	Stock House-2
02	Date of Sampling	---	---	20/10/2023	20/10/2023
03	Time of Sampling	---	---	13:45	14:30
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	69	67
07	Ambient Temperature	° C	---	30	30
08	Average Velocity of Flue Gases	M/Sec.	---	8.4	7.5
09	Isokinetic flow rate for P.M. Sampling	LPM	---	19	17
10	P.M.	mg/Nm ³	150	62	58

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022

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Ref. No.: 70005/10/2023-24

Date : 30/10/2023

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Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamed, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 10	Stack No. 11	Stack No. 12
01	Stack Attached to	---	---	Coal Injector-1	Coal Injector-2	Intermediate Bin
02	Date of Sampling	---	---	21/10/2023	21/10/2023	21/10/2023
03	Time of Sampling	---	---	9.45	10.30	11.30
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	---	12	12	22
06	Stack Temperature	° C	---	66	70	65
07	Ambient Temperature	° C	---	30	30	31
08	Average Velocity of Flue Gases	M/Sec.	---	7.5	7.3	8.2
09	Isokinetic flow rate for P.M. Sampling	LPM	---	23	24	22
10	P.M.	mg/Nm ³	150	58	53	59

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On : 26/12/2022

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Ph.: +91 9099919954 ■ E-mail : royalservice@live.com ■ admin@royalconsultancy.com

Ref. No.: 70006/10/2023-24

Date : 30/10/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 13	Stack No. 14
01	Stack Attached to	---	---	Raw Material Junction House	Production Separation
02	Date of Sampling	---	---	21/10/2023	21/10/2023
03	Time of Sampling	---	---	12:15	14:00
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	20	15
06	Stack Temperature	° C	---	57	63
07	Ambient Temperature	° C	---	31	32
08	Average Velocity of Flue Gases	M/Sec.	---	8.6	7.3
09	Isokinetic flow rate for P.M. Sampling	LPM	---	23	22
10	P.M.	mg/Nm ³	150	57	64

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On : 26/12/2022

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Ref. No.: 70007/10/2023-24

Date : 30/10/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 15	Stack No.16
01	Stack Attached to	---	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of Sampling	---	---	21/10/2023	---
03	Time of Sampling	---	---	15.15	---
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	---	---
06	Stack Temperature	° C	---	129	Not Running During Visit
07	Ambient Temperature	° C	---	31	
08	Average Velocity of Flue Gases	M/Sec.	---	8.9	
09	Isokinetic flow rate for P.M. Sampling	LPM	---	23	
10	P.M.	mg/Nm ³	100	53	---

Instruments Used : EcoTech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022

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Ref. No.: 80008/10/2023-24

Date : 05/10/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : **Welspun Corp Ltd - Steel Division**

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limits	Location No. 1
01.	Location of Sampling	----	--	Nr. Main Security Gate
02.	Date of sampling	----	--	20/10/2023
03.	Time of sampling	Hr.	--	09:15
04.	Dominant Wind Direction (From)	----	--	SE
05.	Wind Speed	Km./Hr.	--	2 to 17
06.	Average flow rate during sampling	m ³ /minute	--	1.15
07.	Average flow rate for Gas sampling	LPM	--	0.2
08	PM 2.5	µg/m ³	60	34
09	PM 10	µg/m ³	100	56
10	Measured Concentration of SO ₂	µg/m ³	80	23.4
11	Measured Concentration of NO ₂	µg/m ³	80	24.9

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done On : 26/12/2022

*Permissible Limits are as per NAAQ Standard 16th November 2009.



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Ref. No.: 80009/10/2023-24

Date : 30/10/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limits	Location No. 2	Location No. 3	Location No. 4
01.	Location of Sampling	----	--	Weight Bridge Security Point	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE
02.	Date of sampling	----	--	20/10/2023	21/10/2023	21/10/2023
03.	Time of sampling	Hr.	--	09:45	09:30	09:45
04.	Dominant Wind Direction (From)	----	--	SE	SE	SE
05.	Wind Speed	Km./Hr.	--	3 to 17	4 to 18	3 to 16
06.	Average flow rate during sampling	m ³ /minute	--	1.15	1.13	1.16
07.	Average flow rate for Gas sampling	LPM	--	0.2	0.2	0.2
08.	PM 2.5	µg/m ³	60	29	31	33
09.	PM 10	µg/m ³	100	68	67	70
10.	Measured Concentration of SO ₂	µg/m ³	80	16.5	17.3	17.4
11.	Measured Concentration of NO ₂	µg/m ³	80	21.3	22.4	23.5

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done On : 26/12/2022

*Permissible Limits are as per NAAQ Standard 16th November 2009.

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Ref. No. : 80011/10/2023-24

Date : 30/10/2023

AMBIENT NOISE LEVEL MONITORING REPORTS

Name of company : Welspun Corp Ltd - Steel Division

Address : Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 20/10/2023

Sample Collected by : Royal Environment

Sr. No.	Location of Sampling	Permissible Limits dB(A) Day Time	Results in dB(A) (Day Time) 6:00 AM - 10:00 PM	Permissible Limits dB(A) Night Time	Results in dB(A) (Night Time) 10:00 PM - 6:00 AM
			01:00 - 02:00 PM		01:00 - 02:00 AM
Monitoring is carried out during					
01.	Nr. Main Security Gate	75	63.0	70	60.2
02.	Nr. DRI Workshop area	75	65.4	70	56.8
03.	Nr. Weigh Bridge - Security Point	75	63.5	70	57.9
04.	Nr. SMS Triangle Garden	75	67.2	70	58.4
05.	Nr. CPP Plant - Coal Shed Corner	75	63.2	70	57.6
06.	Nr. West Security Gate	75	67.8	70	53.4

CPCB Standards			
Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023


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Ref. No. : 90012/10/2023-24

Date : 30/10/2023

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 20/10/2023

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Permissible Limits for 8:00 Hrs.	Results in dB(A)
Monitoring is carried out during			02:00 to 3:00 PM
DRI Plant			
01	Nr. WorkShop	90	79.5
02	Between Kiln 1 & 2 (Platform)	90	80.3
03	Nr. Pump House - DRI	90	80.5
04	Nr. RMHS	90	79.6
CPP Plant			
05	Nr. FBC Boiler (CPP)	90	81.6
06	Nr. TG Building	90	82.4
07	Nr. Work Shop	90	76.9
08	Inside Control Room	90	78.3
SMS Plant			
09	Nr. Furnace Platform Area	90	78.6
10	Nr. CCM Area	90	75.3
11	Nr. MECH. Workshop	90	78.9
12	Nr. Pump House Area	90	79.8
RM Plant**			
13	Nr. Roughing Section	90	79.6
14	Nr. Electrical Room	90	81.3
15	Nr. MECH. WORK	90	78.6
16	Nr. Cooling Bed Area	90	80.5

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023



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Ref. No. : 80013/10/2023-24

Date : 30/10/2023

ILLUMINATION LEVEL MEASUREMENT

Name of company : **Welspun Corp Ltd - Steel Division**

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 20/10/2023

Readings Collected by : Royal Environment

Sr. No.	Location of Sampling	Illumination Lux (As per standards IS - 3646 Part - II : 1966)	Illumination Day Time	Illumination Night Time
Monitoring is carried out during			03:00 to 04:00 PM	11:00 to 12:00 PM
01	Inside Office Building-ADM	200	348	334
02	Inside Control Room - DRI	200	393	360
03	Inside the Canteen	300	417	380
04	QC Lab - DRI Plant	300	358	319
05	Inside Control Room - CPP	300	368	321
06	QC Lab - SMS Plant	300	390	330

Instruments used : Lutron Make Lux Meter, Model No. LX-101A

Calibration done on:04/03/2023

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Ref. No. : 80014/10/2023-24

Date : 30/10/2023

ANALYSIS RESULT OF FUGITIVE EMISSION

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 21/10/2023

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	Permissible Limit**	SPM Level ($\mu\text{g}/\text{Nm}^3$)
				11:30 to 12:00 AM
Monitoring is carried out during				
01	Raw Material Handling Area	Screen Area	2000	1564
02		Transfer Point	2000	1358
03	Crusher Area	Crushing Point	2000	1009
04		Transfer Point	2000	1426
05	Raw Material Feed Area	Feeder Area	2000	1239
06		Mixing Area	2000	1028
07	Cooler discharge Area	Transfer Point	2000	1239
08	Product processing Area	Product Separation Area	2000	1257
09		Bagging Area	2000	1329
10		Intermediate Stock bin Area	2000	1148

Instruments Used : HVS APM 430, RDS-AAS 217, Calibration done on.: 26/12/2022

** Permissible Limits are as per MoEF Notification 31st March 2012.





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Ref. No. : 800012/10/2023-24

Date : 30/10/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 21/10/2023

Source of Sample : **Canteen**

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.20
02	Total Dissolved Solids	mg/l	500	2000	132
03	Total Hardness (As CaCO ₃)	mg/l	200	600	59.0
04	Calcium (as Ca)	mg/l	75	200	26.3
05	Magnesium (as Mg)	mg/l	30	100	32.0
06	Chlorides	mg/l	250	1000	43.0
07	Sulphates	mg/l	200	400	33.0
08	Total Alkalinity	mg/l	200	600	43
09	Nitrates	mg/l	45	No relaxation	10.0
10	Flouride	mg/l	1.0	1.5	0.04

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.


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Ref. No. : 800013/10/2022-23

Date : 30/10/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 21/10/2023

Source of Sample : **Power Plant**

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.40
02	Total Dissolved Solids	mg/l	500	2000	127
03	Total Hardness (As CaCO ₃)	mg/l	200	600	47
04	Calcium (as Ca)	mg/l	75	200	7.8
05	Magnesium (as Mg)	mg/l	30	100	8.1
06	Chlorides	mg/l	250	1000	44.0
07	Sulphates	mg/l	200	400	16.0
08	Total Alkalinity	mg/l	200	600	53
09	Nitrates	mg/l	45	No relaxation	4.6
10	Flouride	mg/l	1.0	1.5	0.04

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.


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Ref. No. : 800014/10/2022-23

Date : 30/10/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 21/10/2023

Source of Sample: DRI Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.30
02	Total Dissolved Solids	mg/l	500	2000	135
03	Total Hardness (As CaCO ₃)	mg/l	200	600	77
04	Calcium (as Ca)	mg/l	75	200	13.0
05	Magnesium (as Mg)	mg/l	30	100	12.0
06	Chlorides	mg/l	250	1000	47.0
07	Sulphates	mg/l	200	400	9.6
08	Total Alkalinity	mg/l	200	600	62
09	Nitrates	mg/l	45	No relaxation	7.5
10	Flouride	mg/l	1.0	1.5	0.04

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.


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Ref. No. : 800015/10/2022-23

Date : 30/10/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 21/10/2023

Source of Sample: SMS Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.90
02	Total Dissolved Solids	mg/l	500	2000	156
03	Total Hardness (As CaCO ₃)	mg/l	200	600	59
04	Calcium (as Ca)	mg/l	75	200	7.6
05	Magnesium (as Mg)	mg/l	30	100	7.6
06	Chlorides	mg/l	250	1000	42
07	Sulphates	mg/l	200	400	7.2
08	Total Alkalinity	mg/l	200	600	62
09	Nitrates	mg/l	45	No relaxation	3.7
10	Flouride	mg/l	1.0	1.5	0.04

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 800016/10/2023-24

Date:6/11/2023

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH OCTOBER - 2023

Name of company : Welspun Corp Ltd - Steel Division
Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Test Method : As per IS Standards - 5182_23/24/6/2

S. No.	Particulars	Unit	Location No.- 1: Nr. Security Gate (Welspun Steel)							
			01		02		03		04	
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	05/10/2023 09:00	06/10/2023 09:15	12/10/2023 09:30	13/10/2023 09:45	19/10/2023 09:30	20/10/2023 09:45	26/10/2023 09:45	27/10/2023 10:00
03.	Date & Time - Ending of Monitoring	---	06/10/2023 09:00	07/10/2023 09:15	13/10/2023 09:30	14/10/2023 09:45	20/10/2023 09:30	21/10/2023 09:45	27/10/2023 09:45	28/10/2023 10:00
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SW	SW	NE	NE	SW	SW
06.	Wind Speed Velocity	Km/Hr.	3 to 16	2 to 17	2 to 15	3 to 18	4 to 15	4 to 16	3 to 16	2 to 18
07.	Average Flow Rate For PM2.5	m3/Hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m3/Min.	1.16	1.17	1.25	1.21	1.14	1.15	1.11	1.16
09.	Average Flow Rate for Gas Monitoring	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m3	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m3	29.7	27.5	26.8	27.6	29.8	30.1	32.4	34.8
12.	Permissible Limits of PM10 *	µg/m3	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m3	54.0	55.0	54.0	53.0	51.0	52.0	57.0	56.0
14.	Permissible Limits of SO2 *	µg/m3	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO2	µg/m3	16.4	15.7	17.8	19.5	16.8	17.8	19.8	20.5
16.	Permissible Limits of NO2 *	µg/m3	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO2	µg/m3	21.5	22.6	24.5	23.5	24.6	23.5	24.5	21.5

Instrument Used: 1) Ecotech make RDS, Model No.: APM - 217BL & Gaseous Pollutants Sampler Model No. AAS-109, PM 2.5 Sampler AAS 127
Calibration Done On : 26/12/2022

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Ref. No. : 800017/10/2023-24

Date : 30/10/2023

REPORT OF WASTE WATER SAMPLES

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sample Collection : 20/10/2023

Source of Sample : ETP Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Permissible Limits(*)	ETP I/L	ETP O/L
01	pH	pH Units	6.5 to 8.5	7.8	7.20
02	Temperature	°C	40	32	31
03	Color	pt.co.	100	72	33
04	Total Dissolved Solids	mg/l	2100	1257	1247
05	Suspended Solids	mg/l	100	58	27
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	152	20.0
08	COD	mg/l	100	249	46.0
09	Chlorides	mg/l	600	473	291
10	Sulphates	mg/l	1000	348	84
11	Phenolic Compound	mg/l	2.0	4.2	N.D.
12	Amonical Nitrogen	mg/l	50	23	7
13	Sodium Absorption Ratio	%	26	29	24.0
14	Total Chromium (As Cr)	mg/l	0.2	0.71	0.04
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.05	0.05
16	Total Copper (As Cu)	mg/l	1.0	0.06	0.04
17	Total Iron (As Fe)	mg/l	1.0	0.5	0.04
18	Zinc (As Zn)	mg/l	1.0	0.07	0.06
19	Bio - assay test	Hours	90% Survival of fish after 96 hours in 100% effluent	N.A.	96%

(*) Permissible Limit as per GPCB CC&A, Limits are only applicable to ETP O/L

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Form No. 37 WORK PLACE MONITORING REPORT

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: **KILN AREA, MECH.WORKSHOP, AFBC BOILER AREA OF Weispun Corp Ltd.- Steel Division**
- 2 Raw materials, by products and finished products involved in the process. **TOTAL DUST**
- 3 Particulars of sampling

Date of Sampling : 20th October 2023

Sample Collected by : Royal Environment

Sr. No	Location Operation monitored	Identified Contaminante	Sampling Instrument used	Airborne Contamination			TWA** concentration (As given in Second Schedule)	Refrance Method	Number of Workers exposed at the location being monitored	Remarks	Signature person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	DRI Plant - Kiln Plat form Area	Total Dust	Personal Respirable Dust sampler VPDS 203	2	1.3-2.8	2.05	10	Gravimetric	5	---		Mr. Prashant Chavda
2	DRI PLANT-Mech Work Shop	Total Dust		2	1.7-3.4	2.55	10		3	---		
3	Power Plant - AFBC Area	Total Dust		2	1.6-2.9	2.25	10		4	---		
4	SMS - ET Furnace Platform	Total Dust		2	1.3-2.6	1.95	10		5	---		
5	SMS - IT Furnace Platform	Total Dust		2	1.7-2.7	2.20	10		3	---		

** Permissible limits (TWA) are as per ACGIH Standards.
Calibration Done On. : 04/03/2022



For. Royal Environment Auditing & Consultancy Service

Royal Environment Auditing & Consultancy Service

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Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.
Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No.: 801/11/2023-24

Date : 30/11/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 1	Stack No. 2
01	Stack Attached to	---	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4
02	Date of Sampling	---	---	23/11/2023	23/10/2023
03	Time of Sampling	---	---	10:00	10:40
04	Air Pollution Control Measures	---	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	128	129.0
07	Ambient Temperature	° C	---	30	30.0
08	Average Velocity of Flue Gases	M/Sec.	---	7.6	7.3
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	21.0
10	P.M.	mg/Nm ³	100	54	55
11	SO ₂	mg/Nm ³	100	31	26
12	NO _x	mg/Nm ³	50	24	23

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022

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Ref. No.: 702/10/2023-24

Date : 30/11/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 3	Stack No. 5
01	Stack Attached to	---	---	Boiler of CPP - 30 TPH	D. G. Set
02	Date of Sampling	---	---	--	--
03	Time of Sampling	---	---	--	--
04	Air Pollution Control Measures	---	---	ESP & Wet Scrubber	--
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	Not	Not
07	Ambient Temperature	° C	---	Running	Running
08	Average Velocity of Flue Gases	M/Sec.	---	During	During
09	Isokinetic flow rate for P.M. Sampling	LPM	---	Visit	Visit
10	P.M.	mg/Nm ³	150	---	---
11	SO ₂	mg/Nm ³	100	---	---
12	NO _x	mg/Nm ³	50	---	---

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022

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Ref. No.: 803/11/2023-24

Date : 30/11/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 6	Stack No. 7
01	Stack Attached to	---	---	Iron Ore Crusher Screen House	Coal Crusher Screen House
02	Date of Sampling	---	---	23/11/2023	23/11/2023
03	Time of Sampling	---	---	11:20	12:00
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	59	60
07	Ambient Temperature	° C	---	31	31
08	Average Velocity of Flue Gases	M/Sec.	---	8.7	7.9
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	21
10	P.M.	mg/Nm ³	150	53	59

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022


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Ref. No.: 804/11/2023-24

Date : 30/11/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 8	Stack No. 9
01	Stack Attached to	---	---	Stock House- 1	Stock House-2
02	Date of Sampling	---	---	23/11/2023	23/11/2023
03	Time of Sampling	---	---	13:40	14:20
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	65	66
07	Ambient Temperature	° C	---	31	31
08	Average Velocity of Flue Gases	M/Sec.	---	8.2	7.9
09	Isokinetic flow rate for P.M. Sampling	LPM	---	20	19
10	P.M.	mg/Nm ³	150	59	57

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022

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Ref. No.: 805/11/2023-24

Date : 30/11/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 10	Stack No. 11	Stack No. 12
01	Stack Attached to	---	---	Coal Injector-1	Coal Injector-2	Intermediate Bin
02	Date of Sampling	---	---	24/11/2023	24/11/2023	24/11/2023
03	Time of Sampling	---	---	10:00	10:45	11:30
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	---	12	12	22
06	Stack Temperature	° C	---	67	69	66
07	Ambient Temperature	° C	---	30	30	31
08	Average Velocity of Flue Gases	M/Sec.	---	7.6	7.3	8.2
09	Isokinetic flow rate for P.M. Sampling	LPM	---	22	25	23
10	P.M.	mg/Nm ³	150	56	52	54

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022


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Ref. No.: 806/11/2023-24

Date : 30/11/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 13	Stack No. 14
01	Stack Attached to	---	---	Raw Material Junction House	Production Separation
02	Date of Sampling	---	---	'24/11/2023	'24/11/2023
03	Time of Sampling	---	---	12:15	14:00
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	20	15
06	Stack Temperature	° C	---	59	61
07	Ambient Temperature	° C	---	31	31
08	Average Velocity of Flue Gases	M/Sec.	---	8.2	7.9
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	22
10	P.M.	mg/Nm ³	150	60	62

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022



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Ref. No.: 807/11/2023-24

Date : 30/11/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 15	Stack No.16
01	Stack Attached to	---	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of Sampling	---	---	24/11/2023	---
03	Time of Sampling	---	---	15:20	---
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	---	---
06	Stack Temperature	° C	---	127	Not
07	Ambient Temperature	° C	---	31	Running
08	Average Velocity of Flue Gases	M/Sec.	---	7.8	During
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	Visit
10	P.M.	mg/Nm ³	100	55	---

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022



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Ref. No.: 908/11/2023-24

Date : 01/12/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limits	Location No. 1
01.	Location of Sampling	----	--	Nr. Main Security Gate
02.	Date of sampling	----	--	23/11/2023
03.	Time of sampling	Hr.	--	09:00
04.	Dominant Wind Direction (From)	----	--	NW
05.	Ambient Temperature	° C	--	28.0
06.	Wind Speed	Km./Hr.	--	3 to 16
07.	Average flow rate during sampling	m ³ /minute	--	1.20
08.	Average flow rate for Gas sampling	LPM	--	0.2
09.	PM 2.5	µg/m ³	60	33
10.	PM 10	µg/m ³	100	57
11.	Measured Concentration of SO ₂	µg/m ³	80	24.6
12.	Measured Concentration of NO ₂	µg/m ³	80	23.5

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done On : 26/12/2022

*Permissible Limits are as per NAAQ Standard 16th November 2009.

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Ref. No.: 909/11/2023-24

Date : 30/11/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limits	Location No. 2	Location No. 3	Location No. 4
01.	Location of Sampling	----	--	Weight Bridge Security Point	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE
02.	Date of sampling	----	--	23/11/2023	24/11/2023	24/11/2023
03.	Time of sampling	Hr.	--	09:30	09:15	09:30
04.	Dominant Wind Direction (From)	----		NW	NW	NW
05.	Ambient Temperature	° C	--	28.0	28.0	28.0
05.	Wind Speed	Km./Hr.	--	2 to 15	3 to 17	4 to 18
06.	Average flow rate during sampling	m ³ /minute	--	1.16	1.12	1.1
07.	Average flow rate for Gas sampling	LPM	--	0.2	0.2	0.2
08	PM 2.5	µg/m ³	60	27	29	28
09	PM 10	µg/m ³	100	69	68	66
10	Measured Concentration of SO ₂	µg/m ³	80	16.5	18.2	17.6
11	Measured Concentration of NO ₂	µg/m ³	17.8	22.1	23.4	24.5

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done On : 26/12/2022

*Permissible Limits are as per NAAQ Standard 16th November 2009.


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Ref. No. : 911/11/2023-24

Date : 30/11/2023

AMBIENT NOISE LEVEL MONITORING REPORTS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 24/11/2023

Sample Collected by : Royal Environment

Sr. No.	Location of Sampling	Permissible Limits dB(A) Day Time	Results in dB(A) (Day Time) 6:00 AM - 10:00 PM	Permissible Limits dB(A) Night Time	Results in dB(A) (Night Time) 10:00 PM - 6:00 AM
			01:00 - 02:00 PM		01:00 - 02:00 AM
01.	Nr. Main Security Gate	75	62.3	70	59.3
02.	Nr. DRI Workshop area	75	65.4	70	57.8
03.	Nr. Weigh Bridge - Security Point	75	67.8	70	54.9
04.	Nr. SMS Triangle Garden	75	63.5	70	57.6
05.	Nr. CPP Plant - Coal Shed Corner	75	66.7	70	54.6
06.	Nr. West Security Gate	75	63.5	70	52.4

CPCB Standards			
Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023


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Ref. No. : 112/11/2023-24

Date : 30/11/2023

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

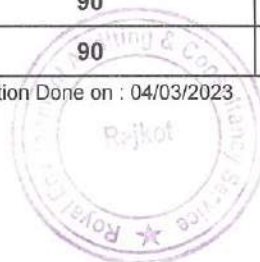
Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 24/11/2023

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Permissible Limits for 8:00 Hrs.	Results in dB(A)
Monitoring is carried out during			05:30 to 05:30 PM
DRI Plant			
01	Nr. WorkShop	90	80.2
02	Between Kiln 1 & 2 (Platform)	90	75.6
03	Nr. Pump House - DRI	90	78.9
04	Nr. RMHS	90	77.3
CPP Plant			
05	Nr. FBC Boiler (CPP)	90	82.3
06	Nr. TG Building	90	84.6
07	Nr. Work Shop	90	80.3
08	Inside Control Room	90	79.0
SMS Plant			
09	Nr. Furnace Platform Area	90	78.6
10	Nr. CCM Area	90	75.6
11	Nr. MECH. Workshop	90	78.7
12	Nr. Pump House Area	90	77.9
RM Plant			
13	Nr. Roughing Section	90	80.1
14	Nr. Electrical Room	90	81.3
15	Nr. MECH. WORK	90	79.6
16	Nr. Cooling Bed Area	90	78.1

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023



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Ref. No. : 913/11/2023-24

Date : 30/11/2023

ILLUMINATION LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist,: Kutch- 370110.

Date of Sampling : 24/11/2023

Readings Collected by : Royal Environment

Sr. No.	Location of Sampling	Illumination Lux (As per standards IS - 3646 Part - II : 1966)	Illumination Day Time	Illumination Night Time
Monitoring is carried out during			03:00 to 04:00 PM	11:00 to 12:00 PM
01	Inside Office Building-ADM	200	350	327
02	Inside Control Room - DRI	200	376	348
03	Inside the Canteen	300	423	359
04	QC Lab - DRI Plant	300	369	333
05	Inside Control Room - CPP	300	365	325
06	QC Lab - SMS Plant	300	400	325

Instruments used : Lutron Make Lux Meter, Model No. LX-101A

Calibration done on:04/03/2023




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Ref. No. : 914/11/2023-24

Date : 30/11/2023

ANALYSIS RESULT OF FUGITIVE EMISSION

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 23/11/2023

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	Permissible Limit**	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Monitoring is carried out during				11:30 to 12:00 AM
01	Raw Material Handling Area	Screen Area	2000	1631
02		Transfer Point	2000	1537
03	Crusher Area	Crushing Point	2000	1230
04		Transfer Point	2000	1325
05	Raw Material Feed Area	Feeder Area	2000	1324
06		Mixing Area	2000	1321
07	Cooler discharge Area	Transfer Point	2000	1354
08	Product processing Area	Product Separation Area	2000	1254
09		Bagging Area	2000	1256
10		Intermediate Stock bin Area	2000	1106

Instruments Used : HVS APM 430, RDS-AAS 217, Calibration done on.: 26/12/2022

** Permissible Limits are as per MoEF Notification 31st March 2012.





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Ref. No. : 912/11/2023-24

Date : 30/11/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 23/11/2023

Source of Sample : **Canteen**

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.23
02	Total Dissolved Solids	mg/l	500	2000	126
03	Total Hardness (As CaCO ₃)	mg/l	200	600	57.0
04	Calcium (as Ca)	mg/l	75	200	28.9
05	Magnesium (as Mg)	mg/l	30	100	34.3
06	Chlorides	mg/l	250	1000	47.9
07	Sulphates	mg/l	200	400	34.0
08	Total Alkalinity	mg/l	200	600	42
09	Nitrates	mg/l	45	No relaxation	11.0
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.


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Ref. No. : 800013/10/2022-23

Date : 30/11/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division

Welspun City, Survey No. 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch-370110.

Date of Sample Collection : 23/11/2023

Source of Sample : **Power Plant**

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.40
02	Total Dissolved Solids	mg/l	500	2000	127
03	Total Hardness (As CaCO ₃)	mg/l	200	600	47
04	Calcium (as Ca)	mg/l	75	200	7.8
05	Magnesium (as Mg)	mg/l	30	100	8.1
06	Chlorides	mg/l	250	1000	44.0
07	Sulphates	mg/l	200	400	16.0
08	Total Alkalinity	mg/l	200	600	53
09	Nitrates	mg/l	45	No relaxation	4.6
10	Flouride	mg/l	1.0	1.5	0.04

(*) Permissible Limit in the Absence of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.


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Ref. No. : 800014/10/2022-23

Date : 30/11/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 23/11/2023

Source of Sample: **DRI Plant**

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.30
02	Total Dissolved Solids	mg/l	500	2000	135
03	Total Hardness (As CaCO ₃)	mg/l	200	600	77
04	Calcium (as Ca)	mg/l	75	200	13.0
05	Magnesium (as Mg)	mg/l	30	100	12.0
06	Chlorides	mg/l	250	1000	47.0
07	Sulphates	mg/l	200	400	9.6
08	Total Alkalinity	mg/l	200	600	62
09	Nitrates	mg/l	45	No relaxation	7.5
10	Flouride	mg/l	1.0	1.5	0.04

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.


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Ref. No. : 800015/10/2022-23

Date : 30/11/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 23/11/2023

Source of Sample: SMS Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.90
02	Total Dissolved Solids	mg/l	500	2000	156
03	Total Hardness (As CaCO ₃)	mg/l	200	600	59
04	Calcium (as Ca)	mg/l	75	200	7.6
05	Magnesium (as Mg)	mg/l	30	100	7.6
06	Chlorides	mg/l	250	1000	42
07	Sulphates	mg/l	200	400	7.2
08	Total Alkalinity	mg/l	200	600	62
09	Nitrates	mg/l	45	No relaxation	3.7
10	Flouride	mg/l	1.0	1.5	0.04

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 916/11/2023-24

Date:05/12/2023

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH November - 2023

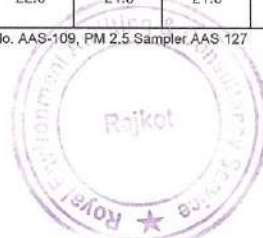
Name of company : Welspun Corp Ltd - Steel Division
Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Test Method : As per IS Standards - 5182_23/24/6/2

S. No.	Particulars	Unit	Location No. - 1: Nr. Security Gate (Welspun Steel)									
			01		02		03		04		05	
01.	No. of Week	---										
02.	Date & Time Starting of Monitoring	---	02/11/2023 09:15	03/11/2023 09:30	09/11/2023 09:15	10/11/2023 09:30	16/11/2023 09:30	17/11/2023 09:45	23/11/2023 09:30	24/11/2023 09:45	27/11/2023 10:00	28/11/2023 10:15
03.	Date & Time - Ending of Monitoring	---	03/11/2023 09:15	04/11/2023 09:30	10/11/2023 09:15	11/11/2023 09:30	17/11/2023 09:30	18/11/2023 09:45	24/11/2023 09:30	25/11/2023 09:45	28/11/23 10:00	29/11/23 10:15
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	SW	SW	NE	NE	NW	NW	NE	NE	SW	SW
06.	Wind Speed Velocity	Km/Hr.	2 to 15	3 to 16	4 to 17	3 to 16	3 to 17	3 to 18	2 to 14	3 to 13	3 to 15	2 to 16
07.	Average Flow Rate For PM2.5	m3/Hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m3/Min.	1.17	1.12	1.19	1.15	1.13	1.20	1.12	1.15	1.18	1.2
09.	Average Flow Rate for Gas Monitoring	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m3	60	60	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m3	31.5	29.6	27.6	28.9	31.8	32.6	32.3	35.9	28.9	27.8
12.	Permissible Limits of PM10 *	µg/m3	100	100	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m3	53.0	54.0	58.0	59.0	55.0	52.0	56.0	57.0	49.0	51.0
14.	Permissible Limits of SO2 *	µg/m3	80	80	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO2	µg/m3	14.2	13.2	12.4	13.5	11.4	13.4	12.6	13.5	14.2	13.6
16.	Permissible Limits of NO2 *	µg/m3	80	80	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO2	µg/m3	23.4	21.5	22.6	24.5	21.9	24.6	23.5	20.3	21.4	20.9

Instrument Used: 1) Ecotech make RDS, Model No.: APM - 217BL & Gaseous Pollutants Sampler Model No. AAS-109, PM 2.5 Sampler AAS 127
Calibration Done On : 26/12/2022





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Ref. No. : 917/11/2023-24

Date : 30/11/2023

REPORT OF WASTE WATER SAMPLES

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sample Collection : 24/11/2023

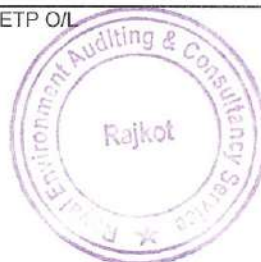
Source of Sample : ETP Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Permissible Limits(*)	ETP I/L	ETP O/L
01	pH	pH Units	6.5 to 8.5	7.9	7.15
02	Temperature	°C	40	31	30
03	Color	pt.co.	100	70	31
04	Total Dissolved Solids	mg/l	2100	1250	1145
05	Suspended Solids	mg/l	100	59	25
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	147	21.0
08	COD	mg/l	100	259	48.0
09	Chlorides	mg/l	600	476	193
10	Sulphates	mg/l	1000	358	86
11	Phenolic Compound	mg/l	2.0	4.9	N.D.
12	Amonical Nitrogen	mg/l	50	25	6
13	Sodium Absorption Ratio	%	26	31	23.0
14	Total Chromium (As Cr)	mg/l	0.2	0.72	0.05
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.07	0.06
16	Total Copper (As Cu)	mg/l	1.0	0.07	0.05
17	Total Iron (As Fe)	mg/l	1.0	0.6	0.03
18	Zinc (As Zn)	mg/l	1.0	0.08	0.07
19	Bio - assay test	Hours	90% Survival of fish after 96 hours in 100% effluent	N.A.	95%

(*) Permissible Limit as per GPCB CC&A, Limits are only applicable to ETP O/L

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Form No. 37 WORK PLACE MONITORING REPORT

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant. : **KILN AREA, MECH.WORKSHOP, AFBC BOILER AREA OF Welspun Corp Ltd.- Steel Division**
- 2 Raw materials, by products and finished products involved in the process. **TOTAL DUST**
- 3 Particulars of sampling

Date of Sampling : 23rd november 2023

Sample Collected by : Royal Environment

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA** concentration (As given in Second Schedule) Mg/m ³	Refrance Method	Number of Workers exposed at the location being monitored	Remarks	Signature person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	DRI Plant - Kiln Plat form Area	Total Dust	Personal Respirable Dust sampler VPDS 203	2	1.3-2.6	1.95	10	Gravimetric	4	---		Mr. Prashant Chavda
2	DRI PLANT-Mech Work Shop	Total Dust		2	1.3-2.1	1.70	10		3	---		
3	Power Plant - AFBC Area	Total Dust		2	1.3-3.1	2.20	10		5	---		
4	SMS - ET Furnace Platform	Total Dust		2	1.1-2.9	2.00	10		4	---		
5	SMS - IT Furnace Platform	Total Dust		2	1.3-3.2	2.25	10		5	---		

** Permissible limits (TWA) are as per ACGIH Standards.
Calibration Done On. : 04/03/2022



For. Royal Environment Auditing & Consultancy Service

Royal Environment Auditing & Consultancy Service

Authorized Sign



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Ref. No.: 301/12/2023-24

Date : 30/12/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 1	Stack No. 2
01	Stack Attached to	---	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4
02	Date of Sampling	---	---	08/12/2023	08/12/2023
03	Time of Sampling	---	---	09:10	10:00
04	Air Pollution Control Measures	---	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	127	128.0
07	Ambient Temperature	° C	---	29	31.0
08	Average Velocity of Flue Gases	M/Sec.	---	7.7	7.5
09	Isokinetic flow rate for P.M. Sampling	LPM	---	22	22.0
10	P.M.	mg/Nm ³	100	55	56
11	SO ₂	ppm	100	32	27
12	NO _x	ppm	50	27	26

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022

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Chaudhary
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Ref. No.: 302/12/2023-24

Date : 30/12/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : **Welspun Corp Ltd - Steel Division**

Address Welspun City, Survey No 850,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 3	Stack No. 5
01	Stack Attached to	---	---	Boiler of CPP - 30 TPH	D. G. Set
02	Date of Sampling	---	---	---	---
03	Time of Sampling	---	---	---	---
04	Air Pollution Control Measures	---	---	ESP & Wet Scrubber	---
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	Not	Not
07	Ambient Temperature	° C	---	Running	Running
08	Average Velocity of Flue Gases	M/Sec.	---	During	During
09	Isokinetic flow rate for P.M. Sampling	LPM	---	Visit	Visit
10	P.M.	mg/Nm ³	150	---	---
11	SO ₂	mg/Nm ³	100	---	---
12	NO _x	mg/Nm ³	50	---	---

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On : 26/12/2022


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Ref. No.: 303/12/2023-24

Date : 30/12/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 6	Stack No. 7
01	Stack Attached to	---	---	Iron Ore Crusher Screen House	Coal Crusher Screen House
02	Date of Sampling	---	---	08/12/2023	08/12/2023
03	Time of Sampling	---	---	11:00	12:05
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	58	61
07	Ambient Temperature	° C	---	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	8.8	7.5
09	Isokinetic flow rate for P.M. Sampling	LPM	---	22	23
10	P.M.	mg/Nm ³	150	58	55

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On : 26/12/2022


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Ref. No.: 304/12/2023-24

Date : 30/12/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : **Welspun Corp Ltd - Steel Division**

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 8	Stack No. 9
01	Stack Attached to	---	---	Stock House- 1	Stock House-2
02	Date of Sampling	---	---	08/12/2023	08/12/2023
03	Time of Sampling	---	---	13:30	14:30
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	66	65
07	Ambient Temperature	° C	---	32	30
08	Average Velocity of Flue Gases	M/Sec.	---	8.1	7.8
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	20
10	P.M.	mg/Nm ³	150	60	55

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022

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Chavala
Analyst



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Ref. No.: 305/12/2023-24

Date : 30/12/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 10	Stack No. 11	Stack No. 12
01	Stack Attached to	---	---	Coal Injector-1	Coal Injector-2	Intermediate Bin
02	Date of Sampling	---	---	09/12/2023	09-12-2023	09/12/2023
03	Time of Sampling	---	---	10:05	10:55	11:35
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	---	12	12	22
06	Stack Temperature	° C	---	68	67	69
07	Ambient Temperature	° C	---	29	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	7.9	7.1	8.1
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	24	24
10	P.M.	mg/Nm ³	150	58	53	52

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022

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Ref. No.: 306/12/2023-24

Date : 30/12/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : **Welspun Corp Ltd - Steel Division**

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 13	Stack No. 14
01	Stack Attached to	---	---	Raw Material Junction House	Production Separation
02	Date of Sampling	---	---	'09/12/2023	'09/12/2023
03	Time of Sampling	---	---	12:25	14: 30
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	20	15
06	Stack Temperature	° C	---	60	62
07	Ambient Temperature	° C	---	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	8.0	8.1
09	Isokinetic flow rate for P.M. Sampling	LPM	---	22	24
10	P.M.	mg/Nm ³	150	61	65

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On : 26/12/2022



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Chandra
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Ref. No.: 307/12/2023-24

Date : 30/12/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 15	Stack No.16
01	Stack Attached to	---	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of Sampling	---	---	09/12/2023	---
03	Time of Sampling	---	---	15:25	---
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	---	---
06	Stack Temperature	° C	---	129	Not Running During Visit
07	Ambient Temperature	° C	---	29	
08	Average Velocity of Flue Gases	M/Sec.	---	7.9	
09	Isokinetic flow rate for P.M. Sampling	LPM	---	22	
10	P.M.	mg/Nm ³	100	57	---

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On : 28/12/2022



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Shweta
Analyst



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Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No.: 308/12/2023-24

Date : 30/12/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

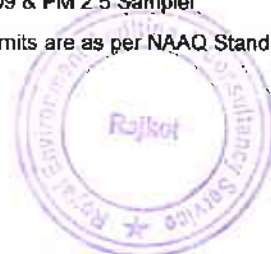
Sr. No.	Particulars	Unit	Permissible Limits	Location No. 1
01.	Location of Sampling	----	--	Nr. Main Security Gate
02.	Date of sampling	----	--	08/12/2023
03.	Time of sampling	Hr.	--	09:05
04.	Dominant Wind Direction (From)	----	--	NW
05.	Ambient Temperature	° C	--	29.0
06.	Wind Speed	Km./Hr.	--	3 to 14
07.	Average flow rate during sampling	m ³ /minute	--	1.21
08.	Average flow rate for Gas sampling	LPM	--	0.2
09.	PM 2.5	µg/m ³	60	35
10.	PM 10	µg/m ³	100	56
11.	Measured Concentration of SO ₂	µg/m ³	80	25.9
12.	Measured Concentration of NO ₂	µg/m ³	80	24.6

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done On : 26/12/2022

*Permissible Limits are as per NAAQ Standard 16th November 2009

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Ref. No.: 309/12/2023-24

Date : 30/12/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limits	Location No. 2	Location No. 3	Location No. 4
01.	Location of Sampling	---	--	Weight Bridge Security Point	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE
02.	Date of sampling	---	--	08/12/2023	08/12/2023	08/12/2023
03.	Time of sampling	Hr.	--	09:10	09:20	09:30
04.	Dominant Wind Direction (From)	---		NW	NW	NW
05.	Ambient Temperature	° C	--	29.0	29.0	29.0
05.	Wind Speed	Km./Hr.	--	2 to 14	3 to 15	4 to 17
06.	Average flow rate during sampling	m ³ /minute	--	1.15	1.13	1.12
07.	Average flow rate for Gas sampling	LPM	--	0.2	0.2	0.2
08.	PM 2.5	µg/m ³	60	26	29	29
09.	PM 10	µg/m ³	100	67	67	68
10.	Measured Concentration of SO ₂	µg/m ³	80	17.2	19.2	18.2
11.	Measured Concentration of NO ₂	µg/m ³	80	23.5	24.5	25.3

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done On : 26/12/2022

*Permissible Limits are as per NAAQ Standard 16th November 2009.

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Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.
Ph.: +91 9099919954 ■ E-mail : royalservice@live.com ■ admin@royalconsultancy.com

Ref. No. : 311/12/2023-24

Date : 30/12/2023

AMBIENT NOISE LEVEL MONITORING REPORTS

Name of company : **Welspun Corp Ltd - Steel Division**

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 08/12/2023

Sample Collected by : Royal Environment

Sr. No.	Location of Sampling	Permissible Limits dB(A) Day Time	Results in dB(A) (Day Time) 6:00 AM - 10:00 PM	Permissible Limits dB(A) Night Time	Results in dB(A) (Night Time) 10:00 PM - 6:00 AM
			01:00 - 02:00 PM		01:00 - 02:00 AM
Monitoring is carried out during					
01.	Nr. Main Security Gate	75	63.5	70	61.2
02.	Nr. DRI Workshop area	75	66.5	70	62.2
03.	Nr. Weigh Bridge - Security Point	75	68.2	70	61.2
04.	Nr. SMS Triangle Garden	75	65.3	70	59.6
05.	Nr. CPP Plant - Coal Shed Corner	75	69.5	70	58.5
06.	Nr. West Security Gate	75	67.2	70	53.2

CPCB Standards			
Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023

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Ref. No. : 312/12/2023-24

Date : 30/12/2023

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 08/12/2023

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Permissible Limits for 8:00 Hrs.	Results in dB(A)
Monitoring is carried out during			05:30 to 05:30 PM
DRI Plant			
01	Nr. WorkShop	90	81.2
02	Between Kiln 1 & 2 (Platform)	90	75.6
03	Nr. Pump House - DRI	90	79.5
04	Nr. RMHS	90	81.5
CPP Plant			
05	Nr. FBC Boiler (CPP)	90	83.6
06	Nr. TG Building	90	79.5
07	Nr. Work Shop	90	81.5
08	Inside Control Room	90	75.6
SMS Plant			
09	Nr. Furnace Platform Area	90	81.2
10	Nr. CCM Area	90	80.2
11	Nr. MECH. Workshop	90	75.8
12	Nr. Pump House Area	90	84.6
RM Plant			
13	Nr. Roughing Section	90	81.2
14	Nr. Electrical Room	90	78.5
15	Nr. MECH. WORK	90	76.2
16	Nr. Cooling Bed Area	90	80.0

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023



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Ref. No. : 313/12/2023-24

Date : 30/12/2023

ILLUMINATION LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 08/12/2023

Readings Collected by : Royal Environment

Sr. No.	Location of Sampling	Illumination Lux (As per standards IS - 3646 Part - II : 1966)	Illumination Day Time	Illumination Night Time
Monitoring is carried out during			03:00 to 04:00 PM	11:00 to 12:00 PM
01	Inside Office Building-ADM	200	315	250
02	Inside Control Room - DRI	200	380	347
03	Inside the Canteen	300	420	358
04	QC Lab - DRI Plant	300	375	320
05	Inside Control Room - CPP	300	385	318
06	QC Lab - SMS Plant	300	410	378

Instruments used : Lutron Make Lux Meter, Model No. LX-101A

Calibration done on:04/03/2023

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Ref. No. : 314/12/2023-24

Date : 30/12/2023

ANALYSIS RESULT OF FUGITIVE EMISSION

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 08/12/2023

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	Permissible Limit**	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Monitoring is carried out during				11:30 to 12:00 AM
01	Raw Material Handling Area	Screen Area	2000	1625
02		Transfer Point	2000	1425
03	Crusher Area	Crushing Point	2000	1221
04		Transfer Point	2000	1299
05	Raw Material Feed Area	Feeder Area	2000	1401
06		Mixing Area	2000	1358
07	Cooler discharge Area	Transfer Point	2000	1324
08	Product processing Area	Product Separation Area	2000	1225
09		Bagging Area	2000	1248
10		Intermediate Stock bin Area	2000	1159

Instruments Used : HVS APM 430, RDS-AAS 217, Calibration done on : 26/12/2022

** Permissible Limits are as per MoEF Notification 31st March 2012.



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Ref. No. : 315/12/2023-24

Date : 30/12/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 08/12/2023

Source of Sample : Canteen

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.25
02	Total Dissolved Solids	mg/l	500	2000	120
03	Total Hardness (As CaCO ₃)	mg/l	200	600	55.0
04	Calcium (as Ca)	mg/l	75	200	28.3
05	Magnesium (as Mg)	mg/l	30	100	3.2
06	Chlorides	mg/l	250	1000	45.5
07	Sulphates	mg/l	200	400	5.0
08	Total Alkalinity	mg/l	200	600	20
09	Nitrates	mg/l	45	No relaxation	6.4
10	Flouride	mg/l	1.0	1.5	0.04

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard

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Ref. No. : 316/12/2023-24

Date : 30/12/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 08/12/2023

Source of Sample : Power Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.25
02	Total Dissolved Solids	mg/l	500	2000	125
03	Total Hardness (As CaCO ₃)	mg/l	200	600	48
04	Calcium (as Ca)	mg/l	75	200	8.3
05	Magnesium (as Mg)	mg/l	30	100	2.8
06	Chlorides	mg/l	250	1000	32.0
07	Sulphates	mg/l	200	400	3.2
08	Total Alkalinity	mg/l	200	600	12
09	Nitrates	mg/l	45	No relaxation	4.3
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 317/12/2023-24

Date : 30/12/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 08/12/2023

Source of Sample: DRI Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.25
02	Total Dissolved Solids	mg/l	500	2000	132
03	Total Hardness (As CaCO ₃)	mg/l	200	600	75
04	Calcium (as Ca)	mg/l	75	200	14.0
05	Magnesium (as Mg)	mg/l	30	100	12.2
06	Chlorides	mg/l	250	1000	48.0
07	Sulphates	mg/l	200	400	9.8
08	Total Alkalinity	mg/l	200	600	30
09	Nitrates	mg/l	45	No relaxation	4.2
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard

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Ref. No. : 318/12/2023-24

Date : 30/12/2023

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 08/12/2023

Source of Sample: SMS Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.25
02	Total Dissolved Solids	mg/l	500	2000	145
03	Total Hardness (As CaCO ₃)	mg/l	200	600	58
04	Calcium (as Ca)	mg/l	75	200	15.5
05	Magnesium (as Mg)	mg/l	30	100	6.2
06	Chlorides	mg/l	250	1000	43
07	Sulphates	mg/l	200	400	7.1
08	Total Alkalinity	mg/l	200	600	23
09	Nitrates	mg/l	45	No relaxation	3.5
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absence of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard

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Ref No : 319/12/2023-24

Date: 30/12/2023

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH December - 2023

Name of company : Welspun Corp Ltd - Steel Division
Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110

Sample Collected by : Royal Environment

Test Method : As per IS Standards - 5182_23/24/6/2

S. No.	Particulars	Unit	Location No.- 1: Nr. Security Gate (Welspun Steel)							
			01		02		03		04	
01.	No. of Week	—								
02.	Date & Time Starting of Monitoring	—	04/12/2023 09:05	05/12/2023 09:25	11/12/2023 09:15	12/12/2023 09:30	18/12/2023 09:25	19/12/2023 09:45	26/12/2023 09:20	27/12/2023 09:40
03.	Date & Time - Ending of Monitoring	—	05/12/2023 09:05	06/12/2023 09:25	12/12/2023 09:15	13/12/2023 09:30	19/12/2023 09:25	20/12/2023 09:45	27/12/2023 09:25	28/12/2023 09:40
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	NW	NW	NE	NE	SW	SW	NW	NW
06.	Wind Speed Velocity	Km/Hr.	2 to 15	3 to 15	3 to 15	3 to 16	3 to 17	3 to 18	2 to 14	3 to 13
07.	Average Flow Rate For PM2.5	m ³ /Hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min	1.17	1.12	1.15	1.14	1.12	1.21	1.13	1.14
09.	Average Flow Rate for Gas Monitoring	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	31.5	29.6	28.5	27.8	32.5	33.5	33.5	36.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	53.0	54.0	55.6	58.0	56.0	53.2	54.2	58.2
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	14.2	13.2	11.5	14.2	11.8	14.5	13.2	14.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	23.4	21.5	21.8	23.5	22.5	25.5	24.5	21.2

Instrument Used : 1) Ecotech make RDS, Model No. APM - 2179L & Gaseous Pollutants Sampler Model No. AAS-109, PM 2.5 Sampler AAS 127
Calibration Done On : 26/12/2022

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Ref. No. : 1017/12/2023-24

Date : 30/12/2023

REPORT OF WASTE WATER SAMPLES

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sample Collection : 08/12/2023

Source of Sample : ETP Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Permissible Limits(*)	ETP I/L	ETP O/L
01	pH	pH Units	6.5 to 8.5	7.9	7.25
02	Temperature	°C	40	32	31
03	Color	pt.co.	100	72	35
04	Total Dissolved Solids	mg/l	2100	1325	1124
05	Suspended Solids	mg/l	100	65	24
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	148	20.0
08	COD	mg/l	100	98	47.0
09	Chlorides	mg/l	600	258	192
10	Sulphates	mg/l	1000	544	81
11	Phenolic Compound	mg/l	2.0	4.1	N.D.
12	Amonical Nitrogen	mg/l	50	26	5
13	Sodium Absorption Ratio	%	26	25	22.1
14	Total Chromium (As Cr)	mg/l	0.2	0.78	0.04
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.06	0.05
16	Total Copper (As Cu)	mg/l	1.0	0.05	0.04
17	Total Iron (As Fe)	mg/l	1.0	0.5	0.05
18	Zinc (As Zn)	mg/l	1.0	0.07	0.06
19	Bio - assay test	Hours	90% Survival of fish after 96 hours in 100% effluent	N.A.	95%

(*) Permissible Limit as per GPCB CC&A, Limits are only applicable to ETP O/L

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Form No. 37 WORK PLACE MONITORING REPORT

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e)

- 1 Name of the Department/Plant. : KILN AREA, MECH.WORKSHOP, AFBC BOILER AREA OF Welspun Corp Ltd. - Steel Division
- 2 Raw materials, by products and finished products involved in the process. TOTAL DUST
- 3 Particulars of sampling

Date of Sampling : 08th December 2023

Sample Collected by : Royal Environment

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA** concentration (As given in Second Schedule)	Refrance Method	Number of Workers exposed at the location being monitored	Remarks	Signature person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	DRI Plant - Kiln Plat form Area	Total Dust	Personal Respirable Dust sampler VPDS 203	2	1.2-2.5	1.85	10	Gravimetric	5	---		Mr. Parth Agravat
2	DRI PLANT-Mech Work Shop	Total Dust		2	1.4-2.2	1.80	10		4	---		
3	Power Plant - AFBC Area	Total Dust		2	1.2-3.0	2.10	10		3	---		
4	SMS - ET Furnace Platform	Total Dust		2	1.2-2.5	1.85	10		5	---		
5	SMS - IT Furnace Platform	Total Dust		2	1.4-3.	2.25	10		4	---		

** Permissible limits (TWA) are as per ACGIH Standards.
Calibration Done On. : 16/01/2023



For. Royal Environment Auditing & Consultancy Service

Authorized Sign



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Ref. No.: 401/01/2023-24

Date : 31/01/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 1	Stack No. 2
01	Stack Attached to	---	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4
02	Date of Sampling	---	---	11/01/2024	11/01/2024
03	Time of Sampling	---	---	10 : 30	11:15
04	Air Pollution Control Measures	---	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	130	126.0
07	Ambient Temperature	° C	---	28	28.0
08	Average Velocity of Flue Gases	M/Sec.	---	8.1	7.3
09	Isokinetic flow rate for P.M. Sampling	LPM	---	22	21.0
10	P.M.	mg/Nm ³	100	53	57
11	SO ₂	ppm	100	31	28
12	NO _x	ppm	50	29	30

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On : 26/12/2022

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Ref. No.: 402/01/2023-24

Date : 31/01/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 3	Stack No. 5
01	Stack Attached to	---	---	Boiler of CPP - 30 TPH	D. G. Set
02	Date of Sampling	---	---	--	--
03	Time of Sampling	---	---	--	--
04	Air Pollution Control Measures	---	---	ESP & Wet Scrubber	--
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	Not	Not
07	Ambient Temperature	° C	---	Running	Running
08	Average Velocity of Flue Gases	M/Sec.	---	During	During
09	Isokinetic flow rate for P.M. Sampling	LPM	---	Visit	Visit
10	P.M.	mg/Nm ³	150	---	---
11	SO ₂	mg/Nm ³	100	---	---
12	NO _x	mg/Nm ³	50	---	---

Instruments Used : Ecotech stack monitoring kit ESS - 100,

Calibration Done On. : 26/12/2022

* Permissible limits as per GPCB CC&A


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Ref. No.: 403/01/2023-24

Date : 31/01/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 6	Stack No. 7
01	Stack Attached to	---	---	Iron Ore Crusher Screen House	Coal Crusher Screen House
02	Date of Sampling	---	---	11/01/2024	11/01/2024
03	Time of Sampling	---	---	12:00	12:30
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	55	59
07	Ambient Temperature	° C	---	28	29
08	Average Velocity of Flue Gases	M/Sec.	---	7.5	8.1
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	22
10	P.M.	mg/Nm ³	150	57	53

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022

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Ph.: +91 9099919954 ■ E-mail : royalservice@live.com ■ admin@royalconsultancy.com

Ref. No.: 404/01/2023-24

Date : 31/01/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : **Welspun Corp Ltd - Steel Division**

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 8	Stack No. 9
01	Stack Attached to	---	---	Stock House- 1	Stock House-2
02	Date of Sampling	---	---	11/01/2024	11/01/2024
03	Time of Sampling	---	---	14:00	15:00
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	63	64
07	Ambient Temperature	° C	---	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	7.2	8.3
09	Isokinetic flow rate for P.M. Sampling	LPM	---	19	22
10	P.M.	mg/Nm ³	150	57	59

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022




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Ref. No.: 405/01/2023-24

Date : 31/01/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 10	Stack No. 11	Stack No. 12
01	Stack Attached to	---	---	Coal Injector-1	Coal Injector-2	Intermediate Bin
02	Date of Sampling	---	---	12/01/2024	12/01/2024	12/01/2024
03	Time of Sampling	---	---	10:15	10:50	11:35
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	---	12	12	22
06	Stack Temperature	° C	---	65	63	66
07	Ambient Temperature	° C	---	29	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	6.9	7.5	8.3
09	Isokinetic flow rate for P.M. Sampling	LPM	---	19	22	21
10	P.M.	mg/Nm ³	150	56	57	52

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022


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Ref. No.: 406/01/2023-24

Date : 31/01/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 13	Stack No. 14
01	Stack Attached to	---	---	Raw Material Junction House	Production Separation
02	Date of Sampling	---	---	'11/01/2024	'11/01/2024
03	Time of Sampling	---	---	12:10	14:00
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	20	15
06	Stack Temperature	° C	---	58	61
07	Ambient Temperature	° C	---	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	7.9	7.2
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	23
10	P.M.	mg/Nm ³	150	58	62

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022



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Ref. No.: 407/01/2023-24

Date : 31/01/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 15	Stack No.16
01	Stack Attached to	---	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of Sampling	---	---	11/01/2024	---
03	Time of Sampling	---	---	15:00	---
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	---	---
06	Stack Temperature	° C	---	127	Not
07	Ambient Temperature	° C	---	29	Running
08	Average Velocity of Flue Gases	M/Sec.	---	8.2	During
09	Isokinetic flow rate for P.M. Sampling	LPM	---	23	Visit
10	P.M.	mg/Nm ³	100	61	---

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done On. : 26/12/2022




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Ref. No.: 408/01/2023-24

Date : 30/12/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limits	Location No. 1
01.	Location of Sampling	----	--	Nr. Main Security Gate
02.	Date of sampling	----	--	11/01/2024
03.	Time of sampling	Hr.	--	09:00
04.	Dominant Wind Direction (From)	----	--	NE
05.	Ambient Temperature	° C	--	29.0
06.	Wind Speed	Km./Hr.	--	3 to 15
07.	Average flow rate during sampling	m ³ /minute	--	1.15
08.	Average flow rate for Gas sampling	LPM	--	0.2
09.	PM 2.5	µg/m ³	60	33
10.	PM 10	µg/m ³	100	53
11.	Measured Concentration of SO ₂	µg/m ³	80	12.3
12.	Measured Concentration of NO ₂	µg/m ³	80	24.1

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done On . : 26/12/2022

*Permissible Limits are as per NAAQ Standard 16th November 2009.



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Ref. No.: 409/01/2023-24

Date : 31/01/2024

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist., Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limits	Location No. 2	Location No. 3	Location No. 4
01.	Location of Sampling	----	--	Weight Bridge Security Point	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE
02.	Date of sampling	----	--	11/01/2024	12/01/2024	12/01/2024
03.	Time of sampling	Hr.	--	09:15	09:15	09:30
04.	Dominant Wind Direction (From)	----		NE	NE	NE
05.	Ambient Temperature	°C	--	29.0	29.0	29.0
05.	Wind Speed	Km./Hr.	--	3 to 15	2 to 16	2 to 16
06.	Average flow rate during sampling	m ³ /minute	--	1.2	1.15	1.18
07.	Average flow rate for Gas sampling	LPM	--	0.2	0.2	0.2
08	PM 2.5	µg/m ³	60	28	32	30
09	PM 10	µg/m ³	100	55	59	56
10	Measured Concentration of SO ₂	µg/m ³	80	12.3	14.5	13.8
11	Measured Concentration of NO ₂	µg/m ³	80	22.4	23.1	22.9

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done On : 26/12/2022

*Permissible Limits are as per NAAQ Standard 16th November 2009.

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Ref. No. : 411/01/2023-24

Date : 31/01/2024

AMBIENT NOISE LEVEL MONITORING REPORTS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 11/01/2024

Sample Collected by : Royal Environment

Sr. No.	Location of Sampling	Permissible Limits dB(A) Day Time	Results in dB(A) (Day Time) 6:00 AM - 10:00 PM	Permissible Limits dB(A) Night Time	Results in dB(A) (Night Time) 10:00 PM - 6:00 AM
			01:00 - 02:00 PM		01:00 - 02:00 AM
01.	Nr. Main Security Gate	75	62.4	70	58.7
02.	Nr. DRI Workshop area	75	66.5	70	54.9
03.	Nr. Weigh Bridge - Security Point	75	63.3	70	57.6
04.	Nr. SMS Triangle Garden	75	64.5	70	54.9
05.	Nr. CPP Plant - Coal Shed Corner	75	67.8	70	55.3
06.	Nr. West Security Gate	75	66.3	70	54.5

CPCB Standards			
Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023


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Ref. No. : 412/01/2023-24

Date : 31/01/2024

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 11/01/2024

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Permissible Limits for 8:00 Hrs.	Results in dB(A)
Monitoring is carried out during			05:30 to 05:30 PM
DRI Plant			
01	Nr. WorkShop	90	80.3
02	Between Kiln 1 & 2 (Platform)	90	79.2
03	Nr. Pump House - DRI	90	81.3
04	Nr. RMHS	90	78.5
CPP Plant			
05	Nr. FBC Boiler (CPP)	90	82.9
06	Nr. TG Building	90	80.7
07	Nr. Work Shop	90	78.9
08	Inside Control Room	90	77.7
SMS Plant			
09	Nr. Furnace Platform Area	90	82.3
10	Nr. CCM Area	90	81.7
11	Nr. MECH. Workshop	90	76.8
12	Nr. Pump House Area	90	83.5
RM Plant			
13	Nr. Roughing Section	90	83.7
14	Nr. Electrical Room	90	76.8
15	Nr. MECH. WORK	90	79.3
16	Nr. Cooling Bed Area	90	83.5

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023

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Ref. No. : 413/01/2023-24

Date : 31/01/2024

ILLUMINATION LEVEL MEASUREMENT

Name of company : **Welspun Corp Ltd - Steel Division**

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist,: Kutch- 370110.

Date of Sampling : 11/01/2024

Readings Collected by : Royal Environment

Sr. No.	Location of Sampling	Illumination Lux (As per standards IS - 3646 Part - II : 1966)	Illumination Day Time	Illumination Night Time
Monitoring is carried out during			03:00 to 04:00 PM	11:00 to 12:00 PM
01	Inside Office Building-ADM	200	350	325
02	Inside Control Room - DRI	200	365	335
03	Inside the Canteen	300	415	365
04	QC Lab - DRI Plant	300	390	310
05	Inside Control Room - CPP	300	350	320
06	QC Lab - SMS Plant	300	425	350

Instruments used : Lutron Make Lux Meter, Model No. LX-101A

Calibration done on:04/03/2023


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Ref. No. : 414/01/2023-24

Date : 31/01/2024

ANALYSIS RESULT OF FUGITIVE EMISSION

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 11/01/2024

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	Permissible Limit**	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Monitoring is carried out during				11:30 to 12:00 AM
01	Raw Material Handling Area	Screen Area	2000	1255
02		Transfer Point	2000	1239
03	Crusher Area	Crushing Point	2000	1358
04		Transfer Point	2000	1269
05	Raw Material Feed Area	Feeder Area	2000	1463
06		Mixing Area	2000	1335
07	Cooler discharge Area	Transfer Point	2000	1356
08	Product processing Area	Product Separation Area	2000	1129
09		Bagging Area	2000	1322
10		Intermediate Stock bin Area	2000	1258

Instruments Used : HVS APM 430, RDS-AAS 217, Calibration done on: 26/12/2022

** Permissible Limits are as per MoEF Notification 31st March 2012



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Ref. No. : 415/01/2023-24

Date : 31/01/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 12/01/2024

Source of Sample : **Canteen**

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.35
02	Total Dissolved Solids	mg/l	500	2000	135
03	Total Hardness (As CaCO ₃)	mg/l	200	600	57.0
04	Calcium (as Ca)	mg/l	75	200	29.8
05	Magnesium (as Mg)	mg/l	30	100	3.5
06	Chlorides	mg/l	250	1000	47.2
07	Sulphates	mg/l	200	400	6.0
08	Total Alkalinity	mg/l	200	600	19
09	Nitrates	mg/l	45	No relaxation	6.8
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.


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Ref. No. : 416/01/2023-24

Date : 31/01/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division

Welspun City, Survey No. 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch-370110.

Date of Sample Collection : 12/01/2024

Source of Sample : Power Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.40
02	Total Dissolved Solids	mg/l	500	2000	122
03	Total Hardness (As CaCO ₃)	mg/l	200	600	50
04	Calcium (as Ca)	mg/l	75	200	8.9
05	Magnesium (as Mg)	mg/l	30	100	3.3
06	Chlorides	mg/l	250	1000	31.0
07	Sulphates	mg/l	200	400	3.5
08	Total Alkalinity	mg/l	200	600	13
09	Nitrates	mg/l	45	No relaxation	4.6
10	Flouride	mg/l	1.0	1.5	0.06

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 417/01/2023-24

Date : 31/01/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 12/01/2024

Source of Sample: DRI Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.80
02	Total Dissolved Solids	mg/l	500	2000	135
03	Total Hardness (As CaCO ₃)	mg/l	200	600	81
04	Calcium (as Ca)	mg/l	75	200	15.0
05	Magnesium (as Mg)	mg/l	30	100	13.4
06	Chlorides	mg/l	250	1000	49.0
07	Sulphates	mg/l	200	400	1.3
08	Total Alkalinity	mg/l	200	600	29
09	Nitrates	mg/l	45	No relaxation	4.8
10	Flouride	mg/l	1.0	1.5	0.06

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 318/12/2023-24

Date : 31/01/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 12/01/2024

Source of Sample: SMS Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.25
02	Total Dissolved Solids	mg/l	500	2000	145
03	Total Hardness (As CaCO ₃)	mg/l	200	600	58
04	Calcium (as Ca)	mg/l	75	200	15.5
05	Magnesium (as Mg)	mg/l	30	100	6.2
06	Chlorides	mg/l	250	1000	43
07	Sulphates	mg/l	200	400	7.1
08	Total Alkalinity	mg/l	200	600	23
09	Nitrates	mg/l	45	No relaxation	3.5
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 419/01/2023-24

Date:01/02/2024

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH January - 2024

Name of company : Welspun Corp Ltd - Steel Division
Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Test Method : As per IS Standards - 5182_23/24/6/2

S. No.	Particulars	Unit	Location No.- 1: Nr. Security Gate (Welspun Steel)									
			01		02		03		04		05	
01.	No. of Week	---										
02.	Date & Time Starting of Monitoring	---	01/01/2024 09:30	02/01/2024 09:45	08/01/2024 09:30	09/01/2024 09:45	15/01/2024 10:15	16/01/2024 10:30	22/01/2024 09:45	23/01/2024 10:00	29/01/2024 10:15	30/01/2024 10:30
03.	Date & Time - Ending of Monitoring	---	02/01/2024 09:30	03/01/2024 09:45	09/01/2024 09:30	10/01/2024 09:45	16/01/2024 10:15	17/01/2024 10:30	23/01/2024 09:45	24/01/2024 10:00	30/01/2024 10:15	31/01/2024 10:30
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	SW	SW	NE	NE	SW	SW
06.	Wind Speed Velocity	Km/Hr.	4 to 15	3 to 16	3 to 17	2 to 14	3 to 18	2 to 15	1 to 13	2 to 12	4 to 19	3 to 18
07.	Average Flow Rate For PM2.5	m3/Hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m3/Min.	1.11	1.13	1.14	1.19	1.15	1.12	1.18	1.13	1.12	1.22
09.	Average Flow Rate for Gas Monitoring	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m3	60	60	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m3	31.5	34.5	32.7	34.5	29.0	28.8	30.5	28.9	30.1	28.5
12.	Permissible Limits of PM10 *	µg/m3	100	100	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m3	51.3	52.6	50.7	48.9	50.3	45.9	47.5	49.2	50.8	48.3
14.	Permissible Limits of SO2 *	µg/m3	80	80	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO2	µg/m3	12.4	13.1	13.5	14.2	12.3	13.5	14.7	13.5	13.9	14.7
16.	Permissible Limits of NO2 *	µg/m3	80	80	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO2	µg/m3	21.5	22.7	23.4	24.1	23.5	21.6	23.5	24.8	25.6	23.4

Instrument Used: 1) Ecotech make RDS, Model No.: APM - 217BL & Gaseous Pollutants Sampler Model No. AAS-109, PM 2.5 Sampler AAS 127
Calibration Done On : 26/12/2022

Royal Environment Auditing & Consultancy Service, Rajkot



Chavala
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Ref. No. : 217/01/2023-24

Date : 31/01/2024

REPORT OF WASTE WATER SAMPLES

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sample Collection : 12/01/2024

Source of Sample : ETP Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Permissible Limits(*)	ETP I/L	ETP O/L
01	pH	pH Units	6.5 to 8.5	8.5	7.60
02	Temperature	°C	40	33	31
03	Color	pt.co.	100	70	33
04	Total Dissolved Solids	mg/l	2100	1331	1154
05	Suspended Solids	mg/l	100	62	23
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	145	17.0
08	COD	mg/l	100	95	42.0
09	Chlorides	mg/l	600	249	186
10	Sulphates	mg/l	1000	557	82
11	Phenolic Compound	mg/l	2.0	4.3	N.D.
12	Amonical Nitrogen	mg/l	50	28	4
13	Sodium Absorption Ratio	%	26	26	23.5
14	Total Chromium (As Cr)	mg/l	0.2	0.80	0.05
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.07	0.04
16	Total Copper (As Cu)	mg/l	1.0	0.06	0.05
17	Total Iron (As Fe)	mg/l	1.0	0.6	0.06
18	Zinc (As Zn)	mg/l	1.0	0.07	0.05
19	Bio - assay test	Hours	90% Survival of fish after 96 hours in 100% effluent	N.A.	94.00%

(*) Permissible Limit as per GPCB CC&A, Limits are only applicable to ETP O/L

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Form No. 37 WORK PLACE MONITORING REPORT

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: **KILN AREA, MECH.WORKSHOP, AFBC BOILER AREA OF Welspun Corp Ltd. - Steel Division**
- 2 Raw materials, by products and finished products involved in the process. **TOTAL DUST**
- 3 Particulars of sampling

Date of Sampling : 11th January 2024

Sample Collected by : Royal Environment

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA** concentration (As given in Second Schedule) Mg/m ³	Refrance Method	Number of Workers exposed at the location being monitored	Remarks	Signature person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	DRI Plant - Kiln Plat form Area	Total Dust	Personal Respirable Dust sampler VPDS 203	2	1.4-2.7	2.05	10	Gravimetric	5	---		Mr. Parth Agravat
2	DRI PLANT-Mech Work Shop	Total Dust		2	1.6-1.9	1.75	10		4	---		
3	Power Plant - AFBC Area	Total Dust		2	1.3-2.1	1.70	10		3	---		
4	SMS - ET Furnace Platform	Total Dust		2	1.5-3.2	2.35	10		4	---		
5	SMS - IT Furnace Platform	Total Dust		2	1.1-2.6	1.85	10		3	---		

** Permissible limits (TWA) are as per ACGIH Standards.

Calibration Done On. : 16/01/2023



For. Royal Environment Auditing & Consultancy Service

Authorized Sign



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Ref. No.: 501/02/2023-24

Date : 29/02/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division.

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 1	Stack No. 2
01	Stack Attached to	---	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4
02	Date of Sampling	---	---	23/02/2024	23/02/2024
03	Time of Sampling	---	---	10 : 35	11:25
04	Air Pollution Control Measures	---	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	131	125.0
07	Ambient Temperature	° C	---	29	29.0
08	Average Velocity of Flue Gases	M/Sec.	---	8.2	7.5
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	23.0
10	P.M.	mg/Nm ³	100	54	56
11	SO ₂	ppm	100	30	27
12	NO _x	ppm	50	28	28

Instruments Used : Ecotech stack monitoring kit ESS - 100,

Calibration Done on : 14/01/2024

* Permissible limits as per GPCB CC&A

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Ref. No.: 402/01/2023-24

Date : 29/02/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 3	Stack No. 5
01	Stack Attached to	---	---	Boiler of CPP - 30 TPH	D. G. Set
02	Date of Sampling	---	---	--	--
03	Time of Sampling	---	---	--	--
04	Air Pollution Control Measures	---	---	ESP & Wet Scrubber	--
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	Not	Not
07	Ambient Temperature	° C	---	Running	Running
08	Average Velocity of Flue Gases	M/Sec.	---	During	During
09	Isokinetic flow rate for P.M. Sampling	LPM	---	Visit	Visit
10	P.M.	mg/Nm ³	150	---	---
11	SO ₂	mg/Nm ³	100	---	---
12	NO _x	mg/Nm ³	50	---	---

Instruments Used : Ecotech stack monitoring kit ESS - 100,

Calibration Done on : 14/01/2024

* Permissible limits as per GPCB CC&A

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Ref. No.: 503/02/2023-24

Date : 29/02/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 6	Stack No. 7
01	Stack Attached to	---	---	Iron Ore Crusher Screen House	Coal Crusher Screen House
02	Date of Sampling	---	---	23/02/2024	23/02/2024
03	Time of Sampling	---	---	12:25	14:15
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	56	58
07	Ambient Temperature	° C	---	28	28
08	Average Velocity of Flue Gases	M/Sec.	---	7.8	7.5
09	Isokinetic flow rate for P.M. Sampling	LPM	---	22	21
10	P.M.	mg/Nm ³	150	56	54

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done on : 14/01/2024

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Ref. No.: 504/02/2023-24

Date : 29/02/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist., Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 8	Stack No. 9
01	Stack Attached to	---	---	Stock House- 1	Stock House-2
02	Date of Sampling	---	---	23/02/2024	23/02/2024
03	Time of Sampling	---	---	14:55	15:45
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	65	66
07	Ambient Temperature	° C	---	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	7.5	8.1
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	22
10	P.M.	mg/Nm ³ .	150	58	57

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done on : 14/01/2024

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Ref. No.: 505/02/2023-24

Date : 29/02/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 10	Stack No. 11	Stack No. 12
01	Stack Attached to	---	---	Coal Injector-1	Coal Injector-2	Intermediate Bin
02	Date of Sampling	---	---	24/02/2024	24/02/2024	24/02/2024
03	Time of Sampling	---	---	10:10	10:45	11:30
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	---	12	12	22
06	Stack Temperature	° C	---	64	62	65
07	Ambient Temperature	° C	---	29	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	7.2	7.8	7.2
09	Isokinetic flow rate for P.M. Sampling	LPM	---	19	21	20
10	P.M.	mg/Nm ³	150	55	54	53

Instruments Used : Ecotech stack monitoring kit ESS - 100,

Calibration Done on : 14/01/2024

* Permissible limits as per GPCB CC&A

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Ref. No.: 506/02/2023-24

Date : 29/02/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 13	Stack No. 14
01	Stack Attached to	---	---	Raw Material Junction House	Production Separation
02	Date of Sampling	---	---	'24/02/2024	"24/02/2024
03	Time of Sampling	---	---	12:15	14:10
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	20	15
06	Stack Temperature	° C	---	59	60
07	Ambient Temperature	° C	---	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	8.0	7.3
09	Isokinetic flow rate for P.M. Sampling	LPM	---	22	22
10	P.M.	mg/Nm ³	150	57	59

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done on : 14/01/2024

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Ref. No.: 507/02/2023-24

Date : 29/02/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 15	Stack No.16
01	Stack Attached to	---	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of Sampling	---	---	24/02/2024	24/02/2024
03	Time of Sampling	---	---	15:05	15:50
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	---	---
06	Stack Temperature	° C	---	125	115
07	Ambient Temperature	° C	---	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	8.1	8.2
09	Isokinetic flow rate for P.M. Sampling	LPM	---	22	21
10	P.M.	mg/Nm ³	100	60	61

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done on : 14/01/2024

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Ref. No.: 508/02/2023-24

Date : 29/02/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limits	Location No. 1
01.	Location of Sampling	----	--	Nr. Main Security Gate
02.	Date of sampling	----	--	23/02/2024
03.	Time of sampling	Hr.	--	09:00
04.	Dominant Wind Direction (From)	----	--	NE
05.	Ambient Temperature	° C	--	29.0
06.	Wind Speed	Km./Hr.	--	3 to 14
07.	Average flow rate during sampling	m ³ /minute	--	1.15
08.	Average flow rate for Gas sampling	LPM	--	0.2
09.	PM 2.5	µg/m ³	60	32
10.	PM 10	µg/m ³	100	54
11.	Measured Concentration of SO ₂	µg/m ³	80	12.2
12.	Measured Concentration of NO ₂	µg/m ³	80	23.5

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done on : 14/01/2024

*Permissible Limits are as per NAAQ Standard 16th November 2009.



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Ref. No.: 509/02/2023-24

Date : 29/02/2024

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

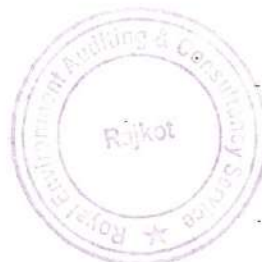
Sr. No.	Particulars	Unit	Permissible Limits	Location No. 2	Location No. 3	Location No. 4
01.	Location of Sampling	---	--	Weight Bridge Security Point	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE
02.	Date of sampling	---	--	23/02/2024	24/02/2024	24/02/2024
03.	Time of sampling	Hr.	--	09:20	09:15	09:25
04.	Dominant Wind Direction (From)	---	--	NE	NE	NE
05.	Ambient Temperature	°C	--	29.0	29.0	29.0
05.	Wind Speed	Km./Hr.	--	3 to 14	2 to 15	3 to 16
06.	Average flow rate during sampling	m ³ /minute	--	1.5	1.15	1.14
07.	Average flow rate for Gas sampling	LPM	--	0.2	0.2	0.2
08.	PM 2.5	µg/m ³	60	26	29	28
09.	PM 10	µg/m ³	100	54	60	58
10.	Measured Concentration of SO ₂	µg/m ³	80	11.5	13.5	12.4
11.	Measured Concentration of NO ₂	µg/m ³	80	21.5	22.5	21.5

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done on : 14/01/2024

*Permissible Limits are as per NAAQ Standard 16th November 2009.

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Ref. No. : 511/02/2023-24

Date : 29/02/2024

AMBIENT NOISE LEVEL MONITORING REPORTS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 23/02/2024

Sample Collected by : Royal Environment

Sr. No.	Location of Sampling	Permissible Limits dB(A) Day Time	Results in dB(A) (Day Time) 6:00 AM - 10:00 PM	Permissible Limits dB(A) Night Time	Results in dB(A) (Night Time) 10:00 PM - 6:00 AM
			01:00 - 02:00 PM		01:00 - 02:00 AM
01.	Nr. Main Security Gate	75	63.5	70	57.5
02.	Nr. DRI Workshop area	75	65.2	70	56.3
03.	Nr. Weigh Bridge - Security Point	75	64.2	70	56.2
04.	Nr. SMS Triangle Garden	75	65.3	70	54.5
05.	Nr. CPP Plant - Coal Shed Corner	75	66.3	70	55.5
06.	Nr. West Security Gate	75	64.2	70	56.3

CPCB Standards			
Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023

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Ref. No. : 512/02/2023-24

Date : 29/02/2024

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 23/02/2024

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Permissible Limits for 8:00 Hrs.	Results in dB(A)
Monitoring is carried out during			05:30 to 05:30 PM
DRI Plant			
01	Nr. WorkShop	90	81.2
02	Between Kiln 1 & 2 (Platform)	90	78.5
03	Nr. Pump House - DRI	90	79.5
04	Nr. RMHS	90	81.2
CPP Plant			
05	Nr. FBC Boiler (CPP)	90	82.2
06	Nr. TG Building	90	81.2
07	Nr. Work Shop	90	78.9
08	Inside Control Room	90	77.8
SMS Plant			
09	Nr. Furnace Platform Area	90	81.2
10	Nr. CCM Area	90	80.5
11	Nr. MECH. Workshop	90	79.8
12	Nr. Pump House Area	90	82.5
RM Plant			
13	Nr. Roughing Section	90	82.5
14	Nr. Electrical Room	90	81.4
15	Nr. MECH. WORK	90	80.0
16	Nr. Cooling Bed Area	90	79.8

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023

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Ref. No. : 513/02/2023-24

Date : 29/02/2024

ILLUMINATION LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Address : Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 23/02/2024

Readings Collected by : Royal Environment

Sr. No.	Location of Sampling	Illumination Lux (As per standards IS - 3646 Part - II : 1966)	Illumination Day Time	Illumination Night Time
Monitoring is carried out during			03:00 to 04:00 PM	11:00 to 12:00 PM
01	Inside Office Building-ADM	200	351	326
02	Inside Control Room - DRI	200	360	335
03	Inside the Canteen	300	410	360
04	QC Lab - DRI Plant	300	380	305
05	Inside Control Room - CPP	300	340	310
06	QC Lab - SMS Plant	300	412	340

Instruments used : Lutron Make Lux Meter, Model No. LX-101A

Calibration done on: 04/03/2023

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Ref. No. : 514/02/2023-24

Date : 29/02/2024

ANALYSIS RESULT OF FUGITIVE EMISSION

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 24/02/2024

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	Permissible Limit**	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Monitoring is carried out during				11:30 to 12:00 AM
01	Raw Material Handling Area	Screen Area	2000	1256
02		Transfer Point	2000	1240
03	Crusher Area	Crushing Point	2000	1356
04		Transfer Point	2000	1341
05	Raw Material Feed Area	Feeder Area	2000	1456
06		Mixing Area	2000	1256
07	Cooler discharge Area	Transfer Point	2000	1452
08	Product processing Area	Product Separation Area	2000	1359
09		Bagging Area	2000	1478
10		Intermediate Stock bin Area	2000	1325

Instruments Used : HVS APM 430, RDS-AAS 217, Calibration done on: 26/12/2022

** Permissible Limits are as per MoEF Notification 31st March 2012.



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Ref. No. : 515/02/2023-24

Date : 29/02/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 23/02/2024

Source of Sample : **Canteen**

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.50
02	Total Dissolved Solids	mg/l	500	2000	140
03	Total Hardness (As CaCO ₃)	mg/l	200	600	56.0
04	Calcium (as Ca)	mg/l	75	200	23.0
05	Magnesium (as Mg)	mg/l	30	100	8.5
06	Chlorides	mg/l	250	1000	46.2
07	Sulphates	mg/l	200	400	6.1
08	Total Alkalinity	mg/l	200	600	24
09	Nitrates	mg/l	45	No relaxation	6.5
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 516/02/2023-24

Date : 29/02/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 23/02/2024

Source of Sample : Power Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.45
02	Total Dissolved Solids	mg/l	500	2000	123
03	Total Hardness (As CaCO ₃)	mg/l	200	600	51
04	Calcium (as Ca)	mg/l	75	200	8.2
05	Magnesium (as Mg)	mg/l	30	100	3.5
06	Chlorides	mg/l	250	1000	32.0
07	Sulphates	mg/l	200	400	3.5
08	Total Alkalinity	mg/l	200	600	14
09	Nitrates	mg/l	45	No relaxation	4.5
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 517/02/2023-24

Date : 29/02/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 23/02/2024

Source of Sample: DRI Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.56
02	Total Dissolved Solids	mg/l	500	2000	130
03	Total Hardness (As CaCO ₃)	mg/l	200	600	82
04	Calcium (as Ca)	mg/l	75	200	16.0
05	Magnesium (as Mg)	mg/l	30	100	12.5
06	Chlorides	mg/l	250	1000	52.0
07	Sulphates	mg/l	200	400	1.6
08	Total Alkalinity	mg/l	200	600	28
09	Nitrates	mg/l	45	No relaxation	4.6
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 418/02/2023-24

Date : 29/02/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 23/02/2024

Source of Sample: SMS Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.35
02	Total Dissolved Solids	mg/l	500	2000	146
03	Total Hardness (As CaCO ₃)	mg/l	200	600	55
04	Calcium (as Ca)	mg/l	75	200	14.5
05	Magnesium (as Mg)	mg/l	30	100	6.2
06	Chlorides	mg/l	250	1000	45
07	Sulphates	mg/l	200	400	7.2
08	Total Alkalinity	mg/l	200	600	24
09	Nitrates	mg/l	45	No relaxation	3.5
10	Flouride	mg/l	1.0	1.5	0.06

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 519/02/2023-24

Date:29/02/2024

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH February - 2024

Name of company : Welspun Corp Ltd - Steel Division
Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

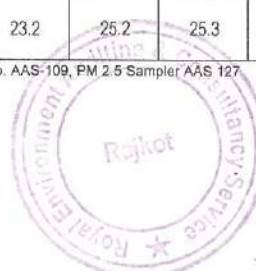
Sample Collected by : Royal Environment

Test Method : As per IS Standards - 5182_23/24/6/2

S. No.	Particulars	Unit	Location No.- 1: Nr. Security Gate (Welspun Steel)									
			01		02		03		04		05	
01.	No. of Week	---	01		02		03		04		05	
02.	Date & Time Starting of Monitoring	---	01/02/24 09:00	02/02/24 09:10	05/02/24 09:15	06/02/24 09:20	12/02/24 09:10	13/02/24 09:20	19/02/24 09:30	20/02/24 09:40	26/02/24 09:20	27/02/24 09:30
03.	Date & Time - Ending of Monitoring	---	02/02/24 09:00	03/02/24 09:10	06/02/24 09:15	07/02/24 09:20	13/02/24 09:10	14/02/24 09:20	20/02/24 09:30	21/02/24 09:40	27/02/24 09:20	28/02/24 09:30
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	SW	SW	NE	NE	SW	SW
06.	Wind Speed Velocity	Km/Hr.	4 to 14	3 to 15	3 to 15	2 to 15	3 to 15	3 to 15	1 to 15	2 to 15	4 to 16	3 to 16
07.	Average Flow Rate For PM2.5	m3/Hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m3/Min.	1.12	1.15	1.15	1.16	1.18	1.11	1.17	1.12	1.11	1.21
09.	Average Flow Rate for Gas Monitoring	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m3	60	60	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m3	32.1	35.5	33.3	35.2	30.0	28.5	32.1	28.6	29.6	29.5
12.	Permissible Limits of PM10 *	µg/m3	100	100	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m3	52.3	53.2	51.2	49.5	56.0	46.0	46.2	52.2	51.2	49.3
14.	Permissible Limits of SO2 *	µg/m3	80	80	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO2	µg/m3	12.3	12.5	14.2	15.2	12.5	12.6	15.2	12.2	12.2	15.2
16.	Permissible Limits of NO2 *	µg/m3	80	80	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO2	µg/m3	21.5	21.6	23.2	25.2	25.3	21.1	22.2	24.2	25.0	21.2

Instrument Used: 1) Ecotech make RDS, Model No.: APM - 217BL & Gaseous Pollutants Sampler Model No. AAS-109, PM 2.5 Sampler AAS 127
Calibration Done On : 14/01/2024

Royal Environment Auditing & Consultancy Service, Rajkot



(Signature)

Analyst



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Ref. No. : 317/02/2023-24

Date : 29/02/2024

REPORT OF WASTE WATER SAMPLES

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sample Collection : 23/02/2024

Source of Sample : ETP Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Permissible Limits(*)	ETP I/L	ETP O/L
01	pH	pH Units	6.5 to 8.5	8.4	7.50
02	Temperature	°C	40	34	32
03	Color	pt.co.	100	72	35
04	Total Dissolved Solids	mg/l	2100	1321	1125
05	Suspended Solids	mg/l	100	61	21
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	146	16.0
08	COD	mg/l	100	96	40.0
09	Chlorides	mg/l	600	251	175
10	Sulphates	mg/l	1000	560	81
11	Phenolic Compound	mg/l	2.0	4.2	N.D.
12	Amonical Nitrogen	mg/l	50	29	5
13	Sodium Absorption Ratio	%	26	27	22.6
14	Total Chromium (As Cr)	mg/l	0.2	0.80	0.04
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.06	0.05
16	Total Copper (As Cu)	mg/l	1.0	0.07	0.05
17	Total Iron (As Fe)	mg/l	1.0	0.5	0.04
18	Zinc (As Zn)	mg/l	1.0	0.06	0.06
19	Bio - assay test	Hours	90% Survival of fish after 96 hours in 100% effluent	N.A.	94.00%

(*) Permissible Limit as per GPCB CC&A, Limits are only applicable to ETP O/L

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Form No. 37 WORK PLACE MONITORING REPORT

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: **KILN AREA, MECH.WORKSHOP, AFBC BOILER AREA OF Welspun Corp Ltd.- Steel Division**
- 2 Raw materials, by products and finished products involved in the process. **TOTAL DUST**
- 3 Particulars of sampling

Date of Sampling : 11th January 2024

Sample Collected by : Royal Environment

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used.	Airborne Contamination			TWA** concentration (As given in Second Schedule)	Refrance Method	Number of Workers exposed at the location being monitored	Remarks	Signature person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	DRI Plant - Kiln Plat form Area	Total Dust	Personal Respirable Dust sampler VPDS 203	2	1.4-2.7	2.05	10	Gravimetric	5	---	 Mr. Parth Agravat	
2	DRI PLANT-Mech Work Shop	Total Dust		2	1.6-1.9	1.75	10		4	---		
3	Power Plant - AFBC Area	Total Dust		2	1.3-2.1	1.70	10		3	---		
4	SMS - ET Furnace Platform	Total Dust		2	1.5-3.2	2.35	10		4	---		
5	SMS - IT Furnace Platform	Total Dust		2	1.1-2.6	1.85	10		3	---		

** Permissible limits (TWA) are as per ACGIH Standards.

Calibration Done On. : 16/01/2023



For. Royal Environment Auditing & Consultancy Service

Authorized Sign



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Ref. No.: 601/03/2023-24

Date : 30/03/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 1	Stack No. 2
01	Stack Attached to	---	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4
02	Date of Sampling	---	---	19/03/2024	19/03/2024
03	Time of Sampling	---	---	10 : 00	10:45
04	Air Pollution Control Measures	---	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	135	135.0
07	Ambient Temperature	° C	---	30	30.0
08	Average Velocity of Flue Gases	M/Sec.	---	8.2	7.5
09	Isokinetic flow rate for P.M. Sampling	LPM	---	22	23.0
10	P.M.	mg/Nm ³	100	55	58
11	SO ₂	ppm	100	29	28
12	NO _x	ppm	50	27	24

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done on : 14/01/2024



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(Signature)

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Ref. No.: 402/01/2023-24

Date : 30/03/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 3	Stack No. 5
01	Stack Attached to	---	---	Boiler of CPP - 30 TPH	D. G. Set
02	Date of Sampling	---	---	-	-
03	Time of Sampling	---	---	-	-
04	Air Pollution Control Measures	---	---	ESP & Wet Scrubber	-
05	Stack Height	Meter	---	30	30
06	Stack Temperature	° C	---	Not	Not
07	Ambient Temperature	° C	---	Running	Running
08	Average Velocity of Flue Gases	M/Sec.	---	During	During
09	Isokinetic flow rate for P.M. Sampling	LPM	---	Visit	Visit
10	P.M.	mg/Nm ³	150	---	---
11	SO ₂	ppm	100	---	---
12	NO _x	ppm	50	---	---

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done on : 14/01/2024

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Ref. No.: 603/03/2023-24

Date : 30/03/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : **Welspun Corp Ltd - Steel Division**

Address : Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 6	Stack No. 7
01	Stack Attached to	---	---	Iron Ore Crusher Screen House	Coal Crusher Screen House
02	Date of Sampling	---	---	23/02/2024	23/02/2024
03	Time of Sampling	---	---	11:50	12:25
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	58	61
07	Ambient Temperature	° C	---	29	29
08	Average Velocity of Flue Gases	M/Sec.	---	8.1	7.9
09	Isokinetic flow rate for P.M. Sampling	LPM	---	23	19
10	P.M.	mg/Nm ³	150	53	55

Instruments Used : Ecotech stack monitoring kit ESS - 100.

* Permissible limits as per GPCB CC&A

Calibration Done on : 14/01/2024



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Ref. No.: 604/03/2023-24

Date : 30/03/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 8	Stack No. 9
01	Stack Attached to	---	---	Stock House- 1	Stock House-2
02	Date of Sampling	---	---	19/03/2024	19/03/2024
03	Time of Sampling	---	---	14:10	15:45
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	17	17
06	Stack Temperature	° C	---	68	69
07	Ambient Temperature	° C	---	29	30
08	Average Velocity of Flue Gases	M/Sec.	---	7.3	7.5
09	Isokinetic flow rate for P.M. Sampling	LPM	---	23	21
10	P.M.	mg/Nm ³	150	52	53

Instruments Used : Ecotech stack monitoring kit ESS - 100,

Calibration Done on: 14/01/2024

* Permissible limits as per GPCB CC&A



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Ref. No.: 605/03/2023-24

Date : 30/03/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 10	Stack No. 11	Stack No. 12
01	Stack Attached to	---	---	Coal Injector-1	Coal Injector-2	Intermediate Bin
02	Date of Sampling	---	---	20/03/2024	20/03/2024	20/03/2024
03	Time of Sampling	---	---	10:00	10:30	11:10
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	---	12	12	22
06	Stack Temperature	° C	---	63	65	62
07	Ambient Temperature	° C	---	30	30	30
08	Average Velocity of Flue Gases	M/Sec.	---	7.8	8.6	8.4
09	Isokinetic flow rate for P.M. Sampling	LPM	---	18	20	22
10	P.M.	mg/Nm ³	150	53	57	55

Instruments Used : Ecotech stack monitoring kit ESS - 100,

Calibration Done on : 14/01/2024

* Permissible limits as per GPCB CC&A




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Ref. No.: 606/03/2023-24

Date : 30/03/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : **Welspun Corp Ltd - Steel Division**

Address : Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 13	Stack No. 14
01	Stack Attached to	---	---	Raw Material Junction House	Production Separation
02	Date of Sampling	---	---	20/03/2024	20/03/2024
03	Time of Sampling	---	---	11:45	12:25
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	20	15
06	Stack Temperature	° C	---	61	53
07	Ambient Temperature	° C	---	30	30
08	Average Velocity of Flue Gases	M/Sec.	---	8.0	7.3
09	Isokinetic flow rate for P.M. Sampling	LPM	---	21	23
10	P.M.	mg/Nm ³	150	58	60

Instruments Used : Ecotech stack monitoring kit ESS - 100,

* Permissible limits as per GPCB CC&A

Calibration Done on : 14/01/2024



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Ref. No. : 607/03/2023-24

Date : 30/03/2024

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limit	Stack No. 15	Stack No.16
01	Stack Attached to	---	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of Sampling	---	---	20/03/2024	20/03/2024
03	Time of Sampling	---	---	14:15	'15:00
04	Air Pollution Control Measures	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	---	---
06	Stack Temperature	° C	---	123	119
07	Ambient Temperature	° C	---	30	30
08	Average Velocity of Flue Gases	M/Sec.	---	7.2	7.6
09	Isokinetic flow rate for P.M. Sampling	LPM	---	20	19
10	P.M.	mg/Nm ³	100	58	56

Instruments Used : Ecotech stack monitoring kit ESS - 100,

Calibration Done on : 14/01/2024

* Permissible limits as per GPCB CC&A



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Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.
Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No.: 608/03/2023-24

Date : 30/03/2024

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limits	Location No. 1
01.	Location of Sampling	---	--	Nr. Main Security Gate
02.	Date of sampling	----	--	19/02/2024
03.	Time of sampling	Hr.	--	09:15
04.	Dominant Wind Direction (From)	---	--	SW
05.	Ambient Temperature	° C	--	29.0
06.	Wind Speed	Km./Hr.	--	4 to 15
07.	Average flow rate during sampling	m ³ /minute	--	1.20
08.	Average flow rate for Gas sampling	LPM	--	0.2
09.	PM 2.5	µg/m ³	60	34
10.	PM 10	µg/m ³	100	55
11.	Measured Concentration of SO ₂	µg/m ³	80	13.5
12.	Measured Concentration of NO ₂	µg/m ³	80	22.4

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done on : 14/01/2024

*Permissible Limits are as per NAAQ Standard 16th November 2009.



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Ref. No.: 609/03/2023-24

Date : 30/03/2024

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : **Welspun Corp Ltd - Steel Division**

Address : Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Permissible Limits	Location No. 2	Location No. 3	Location No. 4
01.	Location of Sampling	---	--	Weight Bridge Security Point	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE
02.	Date of sampling	---	--	19/02/2024	20/02/2024	20/02/2024
03.	Time of sampling	Hr.	--	09:15	09:30	09:45
04.	Dominant Wind Direction (From)	---	--	SW	SW	SW
05.	Ambient Temperature	°C	--	29.0	29.0	29.0
05.	Wind Speed	Km./Hr.	--	4 to 15	4 to 15	4 to 15
06.	Average flow rate during sampling	m ³ /minute	--	1.23	1.15	1.21
07.	Average flow rate for Gas sampling	LPM	--	0.2	0.2	0.2
08.	PM 2.5	µg/m ³	60	29	30	28
09.	PM 10	µg/m ³	100	55	63	59
10.	Measured Concentration of SO ₂	µg/m ³	80	12.3	13.5	13.9
11.	Measured Concentration of NO ₂	µg/m ³	80	22.4	21.5	23.2

Instrument used : Ecotech RDS (APM - 217 BL), Gaseous Sampling Kit AAS109 & PM 2.5 Sampler

Calibration Done on : 14/01/2024

*Permissible Limits are as per NAAQ Standard 16th November 2009.



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Ref. No. : 611/03/2023-24

Date : 30/03/2024

AMBIENT NOISE LEVEL MONITORING REPORTS

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 20/03/2024

Sample Collected by : Royal Environment

Sr. No.	Location of Sampling	Permissible Limits dB(A) Day Time	Results in dB(A) (Day Time) 6:00 AM - 10:00 PM	Permissible Limits dB(A) Night Time	Results in dB(A) (Night Time) 10:00 PM - 6:00 AM
			01:00 - 02:00 PM		01:00 - 02:00 AM
Monitoring is carried out during					
01.	Nr. Main Security Gate	75	62.5	70	53.5
02.	Nr. DRI Workshop area	75	63.8	70	57.4
03.	Nr. Weigh Bridge - Security Point	75	67.3	70	58.3
04.	Nr. SMS Triangle Garden	75	66.9	70	55.9
05.	Nr. CPP Plant - Coal Shed Corner	75	67.3	70	53.8
06.	Nr. West Security Gate	75	62.7	70	57.3

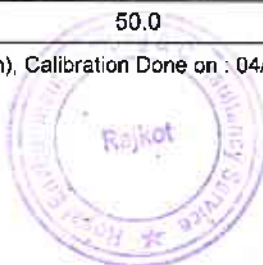
CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023

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Ref. No. : 612/03/2023-24

Date : 30/03/2024

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 20/03/2024

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Permissible Limits for 8:00 Hrs.	Results in dB(A)
Monitoring is carried out during			04:30 to 05:30 PM
DRI Plant			
01	Nr. WorkShop	90	78.5
02	Between Kiln 1 & 2 (Platform)	90	80.3
03	Nr. Pump House - DRI	90	81.5
04	Nr. RMHS	90	79.6
CPP Plant			
05	Nr. FBC Boiler (CPP)	90	83.4
06	Nr. TG Building	90	82.5
07	Nr. Work Shop	90	76.9
08	Inside Control Room	90	79.3
SMS Plant			
09	Nr. Furnace Platform Area	90	80.7
10	Nr. CCM Area	90	73.5
11	Nr. MECH. Workshop	90	80.6
12	Nr. Pump House Area	90	81.3
RM Plant			
13	Nr. Roughing Section	90	83.7
14	Nr. Electrical Room	90	82.6
15	Nr. MECH. WORK	90	79.8
16	Nr. Cooling Bed Area	90	76.9

Instruments used : Sound level meter, Model : SL-4030 (Lutron), Calibration Done on : 04/03/2023





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Ref. No. : 613/03/2023-24

Date : 30/03/2024

ILLUMINATION LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

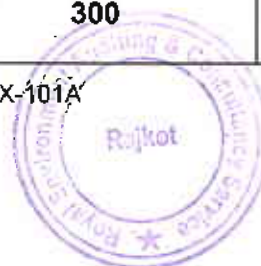
Date of Sampling : 20/03/2024

Readings Collected by : Royal Environment

Sr. No.	Location of Sampling	Illumination Lux (As per standards IS - 3646 Part - II : 1966)	Illumination Day Time	Illumination Night Time
Monitoring is carried out during			03:00 PM to 04:00 PM	11:00 PM to 12:00 AM
01	Inside Office Building-ADM	200	385	335
02	Inside Control Room - DRI	200	369	350
03	Inside the Canteen	300	420	356
04	QC Lab - DRI Plant	300	355	312
05	Inside Control Room - CPP	300	390	325
06	QC Lab - SMS Plant	300	400	355

Instruments used : Lutron Make Lux Meter, Model No. LX-101A

Calibration done on: 04/03/2023



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Ref. No. : 614/03/2023-24

Date : 30/03/2024

ANALYSIS RESULT OF FUGITIVE EMISSION

Name of company : Welspun Corp Ltd - Steel Division

Address Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Date of Sampling : 20/03/2024

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	Permissible Limit**	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Monitoring is carried out during				11:30 to 12:00 AM
01	Raw Material Handling Area	Screen Area	2000	1275
02		Transfer Point	2000	1235
03	Crusher Area	Crushing Point	2000	1396
04		Transfer Point	2000	1457
05	Raw Material Feed Area	Feeder Area	2000	1268
06		Mixing Area	2000	1354
07	Cooler discharge Area	Transfer Point	2000	1524
08	Product processing Area	Product Separation Area	2000	1396
09		Bagging Area	2000	1429
10		Intermediate Stock bin Area	2000	1257

Instruments Used : HVS APM 430, RDS-AAS 217, Calibration done on: 26/12/2022

** Permissible Limits are as per MoEF Notification 31st March 2012.



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Ref. No. : 615/03/2023-24

Date : 30/03/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 20/03/2024

Source of Sample : Canteen

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.60
02	Total Dissolved Solids	mg/l	500	2000	145
03	Total Hardness (As CaCO ₃)	mg/l	200	600	58.0
04	Calcium (as Ca)	mg/l	75	200	24.0
05	Magnesium (as Mg)	mg/l	30	100	8.9
06	Chlorides	mg/l	250	1000	47.5
07	Sulphates	mg/l	200	400	6.3
08	Total Alkalinity	mg/l	200	600	23
09	Nitrates	mg/l	45	No relaxation	6.2
10	Flouride	mg/l	1.0	1.5	0.04

(*) Permissible Limit in the Absence of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 616/03/2023-24

Date : 30/03/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division

Welspun City, Survey No. 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch-370110.

Date of Sample Collection : 20/03/2024

Source of Sample : Power Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.45
02	Total Dissolved Solids	mg/l	500	2000	123
03	Total Hardness (As CaCO ₃)	mg/l	200	600	51
04	Calcium (as Ca)	mg/l	75	200	8.2
05	Magnesium (as Mg)	mg/l	30	100	3.5
06	Chlorides	mg/l	250	1000	32.0
07	Sulphates	mg/l	200	400	3.5
08	Total Alkalinity	mg/l	200	600	14
09	Nitrates	mg/l	45	No relaxation	4.5
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 617/03/2023-24

Date : 30/03/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No. 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 20/03/2024

Source of Sample: DRI Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.56
02	Total Dissolved Solids	mg/l	500	2000	130
03	Total Hardness (As CaCO ₃)	mg/l	200	600	82
04	Calcium (as Ca)	mg/l	75	200	16.0
05	Magnesium (as Mg)	mg/l	30	100	12.5
06	Chlorides	mg/l	250	1000	52.0
07	Sulphates	mg/l	200	400	1.6
08	Total Alkalinity	mg/l	200	600	28
09	Nitrates	mg/l	45	No relaxation	4.6
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 618/03/2023-24

Date : 30/03/2024

REPORT OF WATER SAMPLES

Name of company : Welspun Corp Ltd. - Steel Division
Welspun City, Survey No: 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch-370110.

Date of Sample Collection : 20/03/2024

Source of Sample: SMS Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Acceptable Limits	Permissible Limit(*)	Results
01	pH	pH Units	6.5 to 8.5	No relaxation	7.35
02	Total Dissolved Solids	mg/l	500	2000	146
03	Total Hardness (As CaCO ₃)	mg/l	200	600	55
04	Calcium (as Ca)	mg/l	75	200	14.5
05	Magnesium (as Mg)	mg/l	30	100	6.2
06	Chlorides	mg/l	250	1000	45
07	Sulphates	mg/l	200	400	7.2
08	Total Alkalinity	mg/l	200	600	24
09	Nitrates	mg/l	45	No relaxation	3.5
10	Flouride	mg/l	1.0	1.5	0.06

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

Statement of Conformity : The water is safe to drink with respect of parameters checked above as per IS 10500:2012 Standard.

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Ref. No. : 619/03/2023-24

Date:30/03/2024

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH MARCH - 2024

Name of company : Welspun Corp Ltd - Steel Division
Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Test Method : As per IS Standards - 5182_23/24/6/2

S. No.	Particulars	Unit	Location No.- 1: Nr. Security Gate (Welspun Steel)							
			01		02		03		04	
01.	No. of Week	—								
02.	Date & Time Starting of Monitoring	—	04/03/2024 09:15	05/03/2024 09:30	11/03/2024 10:30	12/03/2024 11:15	18/03/2024 10:00	19/03/2024 10:30	26/03/2024 10:00	27/03/2024 10:15
03.	Date & Time - Ending of Monitoring	—	05/03/2024 09:15	06/03/2024 09:30	12/03/2024 10:30	13/03/2024 11:15	19/03/2024 10:00	20/03/2024 10:30	27/03/2024 10:00	28/03/2024 10:15
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	SW	SW	NEW	NEW	NE	NE	SE	SE
06.	Wind Speed Velocity	Km/Hr.	3 to 14	4 to 15	4 to 17	3m to 16	2 to 12	1 to 13	3 to 12	2 mo 14
07.	Average Flow Rate For PM2.5	m ³ /Hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min.	1.12	1.15	1.12	1.13	1.15	1.16	1.20	1.23
09.	Average Flow Rate for Gas Monitoring	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	22.4	26.8	28.7	24.6	26.1	25.9	27.9	26.6
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	47.5	49.6	44.9	42.9	48.7	51.9	53.1	50.8
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	11.3	12.5	13.8	11.1	12.3	12.5	13.5	14.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	22.1	23.5	24.5	22.6	23.1	24.6	23.4	24.3

Instrument Used: 1) Ecotech make RDS, Model No. APM - 217BL & Gaseous Pollutants Sampler Model No. AAS-109. PM 2.5 Sampler AAS 127
Calibration Done On : 14/01/2024



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Ref. No. : 417/03/2023-24

Date : 30/03/2024

REPORT OF WASTE WATER SAMPLES

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sample Collection : 20/03/2024

Source of Sample : ETP Plant

Sample Collected by : Royal Environment

Sr.No.	Parameters	Unit	Permissible Limits(*)	ETP I/L	ETP O/L
01	pH	pH Units	6.5 to 8.5	8.4	7.50
02	Temperature	°C	40	33	32
03	Color	pt.co.	100	78	36
04	Total Dissolved Solids	mg/l	2100	1325	1327
05	Suspended Solids	mg/l	100	63	23
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	142	17.0
08	COD	mg/l	100	98	43.0
09	Chlorides	mg/l	600	257	173
10	Sulphates	mg/l	1000	568	82
11	Phenolic Compound	mg/l	2.0	4.3	N.D.
12	Amonical Nitrogen	mg/l	50	31	6
13	Sodium Absorption Ratio	%	26	28	23.5
14	Total Chromium (As Cr)	mg/l	0.2	0.70	0.05
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.08	0.04
16	Total Copper (As Cu)	mg/l	1.0	0.08	0.04
17	Total Iron (As Fe)	mg/l	1.0	0.6	0.06
18	Zinc (As Zn)	mg/l	1.0	0.05	0.04
19	Bio - assay test	Hours	90% Survival of fish after 96 hours in 100% effluent	N.A.	96.00%

(*) Permissible Limit as per GPCB CC&A, Limits are only applicable to ETP O/L

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Form No. 37 WORK PLACE MONITORING REPORT

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: KILN AREA, MECH.WORKSHOP, AFBC BOILER AREA OF Welspun Corp Ltd.- Steel Division
- 2 Raw materials, by products and finished products involved in the process. TOTAL DUST
- 3 Particulars of sampling

Date of Sampling : 20th March 2024

Sample Collected by : Royal Environment

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA** concentration (As given in Second Schedule)	Refrance Method	Number of Workers exposed at the location being monitored	Remarks	Signature person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	DRI Plant - Kiln Plat form Area	Total Dust	Personal Respirable Dust sampler VPDS 203.	2	1.1-2.6	1.85	10	Gravimetric	4	---		Mr. Parth Agravat
2	DRI PLANT-Mech Work Shop	Total Dust		2	1.3-2.3	1.80	10		3	---		
3	Power Plant - AFBC Area	Total Dust		2	1.6-2.8	2.20	10		5	---		
4	SMS - ET Furnace Platform	Total Dust		2	1.7-2.9	2.30	10		4	---		
5	SMS - IT Furnace Platform	Total Dust		2	1.3-2.7	2.00	10		5	---		

** Permissible limits (TWA) are as per ACGIH Standards.

Calibration Done On. : 16/01/2023



For. Royal Environment Auditing & Consultancy Service


Authorized Sign