

Date: 30.05.2023

To,

Member Secretary
State Level Environment Impact Assessment Authority
Gujarat Pollution Control Board
Paryavaran Bhavan, Sector-10 A
Gandhinagar – 382010.

Sub: - Half Yearly Environment Clearance Compliance Report.

Ref: Your letter No. WCL-EC, SEIAA/GUJ/EC/5(f)/2338/2022, date: 15.10.2022(Earlier 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-2022 to March-2023.

Thanking You,

Yours faithfully,

For; M/s. Welspun Corp Ltd.

Encl: As above

CC:

1. The Regional Officer,
Ministry of Environment, Forest & Climate Change,
Room No. 407, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhinagar, Gujarat-382010.
2. Gujarat Pollution Control Board, Parayan Bhavan, Sector-10-A, Gandhinagar-382020.
3. Regional Office, Central Pollution Control Board, Parivesh Bhawan, Aatmajyoti Ashram Road, Opp. VMC Ward office No. 10, Subhanpura, Vadodara, Gujarat-390023.

Welspun Corp Ltd (Steel Division)

Welspun House, 5th Floor, Kamala City, SenapatiBapat Marg, Lower Parel (West), Mumbai – 400013, India.

Registered Office: Welspun City, Village Versamedi, TalukaAnjar, Dist. Kutch, Gujarat, Pin-370110 India

Works Address: Welspun City, Survey No. 650, Village Versamedi, TalukaAnjar, Dist. Kutch, Gujarat, Pin-370110

Tel: +91 22 66136000 /24908000 , Fax : +91 22 24908020

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

Corporate identification No. L27100GJ1995PLC025609

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

**WCL-EC, SEIAA/GUJ/EC/5(f)/2338/2022, date : 15.10.2022(Earlier 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 12000 MT/Month, in any case.	The production capacity is not increased for sponge iron i.e.-12000 MT/Month.
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.)	Complied.
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.	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 all Furnace.
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.	Noted & 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,	Ground dust is 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.



f.	Air born coal dust shall be controlled with water sprinklers at suitable locations in the plant.	Water Sprinkler System are installed at fugitive dust area.
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 Transboundary 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 confirm 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 & being Complied.
b.	Reuse of by-products from the process as raw materials or raw materials substitutes in other process.	Noted & 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.	We have developed Green Belt area of 36.33 acres till date.
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 submit an action plan for the same for next three years to the GPCB.	Complied.
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.





Royal

Environment Auditing & Consultancy Service

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

Ref. No. : 50002/10/2022-23

Date: 31/10/2022

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 6	Stack No. 7	Stack No. 8	Stack No. 9
01	Stack Attached to	---	Iron Ore Crusher Screen House	Coal Crusher Screen House	Stock House- 1	Stock House-2
02	Date of Sampling	---	08/10/2022	08/10/2022	09/10/2022	09/10/2022
03	Time of Sampling	---	10:30	11:10	9:50	10:30
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	17	17	17	17
06	Stack Temperature	°C	76	70	75	70
07	Ambient Temperature	°C	28	29	28	29
08	Average Velocity of Flue Gases	M/Sec.	6.9	7.1	7.5	6.8
09	Isokinetic flow rate for P.M. Sampling	LPM	19	20	21	21
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	45	48	40	46

Instrument Used :Stack Monitoring Kit - Ecotech (ESS I00)

* Permissible limits as per GPCB CC&A.

Calibration Done On : 27/12/2021

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



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Ref. No. : 50003/10/2022-23

Date: 31/10/2022

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 10	Stack No. 11	Stack No. 12	Stack No. 13	Stack No. 14
01	Stack Attached to	—	Coal Injector-1	Coal Injector-2	Intermediate Bin	Raw Material Junction House	Production Separation
02	Date of Sampling	—	08/10/2022	08/10/2022	09/10/2022	09/10/2022	08/10/2022
03	Time of Sampling	—	11:50	12:30	11:10	11:50	14:00
04	Air Pollution Control Measures	—	Bag Filter	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	12	12	22	20	15
06	Stack Temperature	°C	65	62	66	58	68
07	Ambient Temperature	°C	30	31	30	31	30
08	Average Velocity of Flue Gases	M/Sec.	7.4	7.6	7.2	7	6.9
09	Isokinetic flow rate for P.M. Sampling	LPM	20	21	20	19	21
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	50	39	48	40	45

Instrument Used :Stack Monitoring Kit - Ecotech (ESS 100)

* Permissible limits as per GPCB CC&A.

Calibration Done On . : 27/12/2021

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Ref. No. : 50001/10/2022-23

Date: 31/10/2022

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 5
01	Stack Attached to	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4	Boiler of CPP - 30 TPH	D. G. Set
02	Date of sampling	---	08/10/2022	08/10/2022	---	---
03	Time of Sampling	----	09:00	09:45	---	---
04	Air Pollution Control Measures	----	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln	ESP & Wet Scrubber	-
05	Stack Height	Meter	30	30	30	30
06	Stack Temperature	°C	110	115	Not	Not
07	Ambient Temperature	°C	27	28	Running	Running
08	Average Velocity of Flue Gases	M/Sec.	6.9	7.6	During	During
09	Isokinetic flow rate for P.M. Sampling	LPM	19	21	Visit	Visit
10	Gaseous Sampling Flow Rate	LPM	2.0	2.0	---	---
11	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	150
12	Measured Concentration of P.M.	mg/Nm ³	36.6	38.2	---	---
13	Permissible Limit for SO ₂ *	ppm	100	100	100	100
14	Measured Concentration of SO ₂	ppm	12.9	15.1	---	---
15	Permissible Limit for Nox*	ppm	50	50	50	50
16	Measured Concentration of Nox	ppm	18.8	19.3	---	---

Instrument Used : Stack Monitoring Kit - Ecotech (ESS 100)

* Permissible limits as per GPCB CC&A.

Calibration Done On : 27/12/2021

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Ref. No. : 50004/10/2022-23

Date: 31/10/2022

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 15	Stack No.16
01	Stack Attached to	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of sampling	---	30/10/2022	30/10/2022
03	Time of Sampling	---	11:50	14:00
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	---
06	Stack Temperature	°C	111	114
07	Ambient Temperature	°C	31	32
08	Average Velocity of Flue Gases	M/Sec.	7.2	7.7
09	Isokinetic flow rate for P.M. Sampling	LPM	19	20
10	Permissible Limit for P.M.*	mg/Nm ³	100	100
11	Measured Concentration of P.M.	mg/Nm ³	45	54
12	Permissible Limit for Sox*	ppm	40	40
13	Measured Concentration of SOx	ppm	1.2	1.1
14	Permissible Limit for Nox*	ppm	25	25
15	Measured Concentration of Nox	ppm	10.2	11.4

* Permissible limits as per GPCB CC&A.

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Ref. No. : 50005/10/2022-23

Date: 31/10/2022

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd. - Steel Division

Welspun City, Survey No. 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch-370110.

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 1
01.	Location of Sampling	----	Nr. Main Security Gate
02.	Date of sampling	----	08/10/2022
03.	Time of sampling	Hrs.	08:45
04.	Duration of Sampling	Min.	1440.00
05.	Dominant Wind Direction (From)	----	SE
06.	Wind Speed	Km./Hrs.	2 to 15
07.	Average flow rate during sampling	m3/minutes	1.20
08.	Average flow rate for Gas sampling	LPM	0.2
09.	Permissible Limits of PM 10 *	$\mu\text{g}/\text{m}^3$	100
10.	Measured Concentration of PM 10	$\mu\text{g}/\text{m}^3$	40
11.	Permissible Limits of PM 2.5*	$\mu\text{g}/\text{m}^3$	60
12.	Measured Concentration of PM 2.5	$\mu\text{g}/\text{m}^3$	36
13.	Permissible Limits of SO ₂ *	$\mu\text{g}/\text{m}^3$	80
14.	Measured Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	12.9
15.	Permissible Limits of NO ₂ *	$\mu\text{g}/\text{m}^3$	80
16.	Measured Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	18.4

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 27/12/2021

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



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Analyst



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Ref. No. : 50006/10/2022-23

Date: 31/10/2022

REPORT OF AMBIENT AIR QUALITY MONITORING

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

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 3	Location No. 4	Location No. 2
01.	Location of Sampling	---	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE	Weight Bridge Security Point
02.	Date of sampling	---	09/10/2022	08/10/2022	09/10/2022
03.	Time of sampling	Hrs.	9:30	9:00	10:00
04.	Duration of Sampling	Min.	1440.00	1440.00	1440.00
05.	Dominant Wind Direction (From)	---	SE	SF	SF
06.	Wind Speed	Km./Hrs.	2 to 15	4 to 12	3 to 18
07.	Average flow rate during sampling	m ³ /minutes	1.10	1.10	1.20
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2
09.	Permissible Limits of PM 10*	µg/m ³	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	38	40	35
11.	Permissible Limits of PM 2.5*	µg/m ³	60	60	60
12.	Measured Concentration of PM 2.5	µg/m ³	28	25	26
13.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80
14.	Measured Concentration of SO ₂	µg/m ³	13.7	12.9	11.2
15.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80
16.	Measured Concentration of NO ₂	µg/m ³	20.0	18.5	14.9

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 27/12/2021

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

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Ref. No. : 50008/10/2022-23

Date: 31/10/2022

AMBIENT NOISE LEVEL MEASUREMENT

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

Date of Sampling : 08th october 2022

Readings Taken by : Royal Environment

Sr. No.	Location of Sampling	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
	Permissible Limits	75.0	70.0
01.	Nr. Main Security Gate	66.5	50.8
02.	Nr. DRI Workshop area	63.8	53.3
03.	Nr. Weigh Bridge - Security Point	62.0	55.3
04.	Nr. SMS Triangle Garden	64.6	52.2
05.	Nr. CPP Plant - Coal Shed Corner	72.3	56.7
06.	Nr. West Security Gate	64.2	52.5

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 : Lutron Make Sound level meter, Model No. IL- 006719

Calibration done on: 30/09/2021



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Ref. No. : 50009/10/2022-23

Date: 31/10/2022

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sampling : 08th october 2022

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Results in dB(A)
Permissible Limits for 8:00 Hrs.		90.0
DRI Plant		
01	Nr. WorkShop	76.2
02	Between Kiln 1 & 2 (Platform)	80.6
03	Nr. Pump House - DRI	75.9
04	Nr. RMHS	72.0
CPP Plant		
05	Nr. FBC Boiler (CPP)	87.6
06	Nr. TG Building	75.3
07	Nr. Work Shop	74.7
08	Inside Control Room	73.0
SMS Plant		
09	Nr. Furnace Platform Area	72.2
10	Nr. CCM Area	73.0
11	Nr. MECH. Workshop	80.4
12	Nr. Pump House Area	77.9
RM Plant**		
13	Nr. Roughing Section	75.1
14	Nr. Electrical Room	71.5
15	Nr. MECH. WORK	80.4
16	Nr. Cooling Bed Area	69.9

Instruments used : Lutron Make Sound level meter, Model No. IL- 006719

Calibration done on: 30/09/2021

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Ref. No. : 50010/10/2022-23

Date: 31/10/2022

ILLUMINATION LEVEL MEASUREMENT

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

Date of Sampling : 08th october 2022

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
01	Inside Office Building-ADM	200	370	250
02	Inside Control Room - DRI	300	360	360
03	Inside the Canteen	200	375	355
04	QC Lab - DRI Plant	300	350	340
05	Inside Control Room - CPP	300	390	335
06	QC Lab - SMS Plant	300	385	300

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

Calibration done on: 02/09/2021

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Ref. No. : 50011/10/2022-23

Date: 31/10/2022

ANALYSIS RESULT OF FUGITIVE EMISSION

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

Date of Sampling : 08th october 2022

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Permissible Limit**			2000
01	Raw Material Handling Area	Screen Area	850
02		Transfer Point	900
03	Crusher Area	Crushing Point	985
04		Transfer Point	1440
05	Raw Material Feed Area	Feeder Area	930
06		Mixing Area	810
07	Cooler discharge Area	Transfer Point	940
08	Product processing Area	Product Sepration Area	1000
09		Bagging Area	760
10		Intermediate Stock bin area	1320

Instruments Used : HVS APM 430, RDS-AAS 217, Calibration done on.: 28/12/2021

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

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Ref. No. : 50012/10/2022-23

Date: 31/10/2022

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 : 09/10/2022

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	7.42
02	Total Dissolved Solids	mg/l	500	2000	140
03	Total Hardness (As CaCO ₃)	mg/l	200	600	46.5
04	Calcium (as Ca)	mg/l	75	200	11.2
05	Magnesium (as Mg)	mg/l	30	100	4.5
06	Chlorides	mg/l	250	1000	33.4
07	Sulphates	mg/l	200	400	13.2
08	Total Alkalinity	mg/l	200	600	38
09	Nitrates	mg/l	45	No relaxation	2.4
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. : 50013/10/2022-23

Date: 31/10/2022

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 : 09/10/2022

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	7.50
02	Total Dissolved Solids	mg/l	500	2000	128
03	Total Hardness (As CaCO ₃)	mg/l	200	600	26
04	Calcium (as Ca)	mg/l	75	200	4.9
05	Magnesium (as Mg)	mg/l	30	100	3.3
06	Chlorides	mg/l	250	1000	19.2
07	Sulphates	mg/l	200	400	5.3
08	Total Alkalinity	mg/l	200	600	31.4
09	Nitrates	mg/l	45	No relaxation	2.7
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. : 50014/10/2022-23

Date: 31/10/2022

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 : 09/10/2022

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	130
03	Total Hardness (As CaCO ₃)	mg/l	200	600	38
04	Calcium (as Ca)	mg/l	75	200	5.9
05	Magnesium (as Mg)	mg/l	30	100	5.7
06	Chlorides	mg/l	250	1000	29.4
07	Sulphates	mg/l	200	400	7.2
08	Total Alkalinity	mg/l	200	600	38
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. : 50015/10/2022-23

Date: 31/10/2022

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 : 09/10/2022

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	7.60
02	Total Dissolved Solids	mg/l	500	2000	120
03	Total Hardness (As CaCO ₃)	mg/l	200	600	39
04	Calcium (as Ca)	mg/l	75	200	0.9
05	Magnesium (as Mg)	mg/l	30	100	5.3
06	Chlorides	mg/l	250	1000	28
07	Sulphates	mg/l	200	400	6.7
08	Total Alkalinity	mg/l	200	600	40
09	Nitrates	mg/l	45	No relaxation	3.2
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. : 50016/10/2022-23

Date: 31/10/2022

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH OCTOBER - 2022

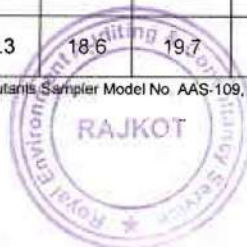
Name of company : Welspun Corp Ltd - Steel Division
Welspun City, Survey No 650,
Village: Versamedi, Taluka: Anjar,
Dist.: Kutch- 370110.

Sample Collected by : Royal Environment

Test Method : As per IS Standards - 5182_23/24/5/2

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	---	06/10/22 9.00	07/10/22 9.15	13/10/22 9.50	14/10/22 10.05	20/10/22 8.30	21/10/22 08.50	27/10/22 09.35	28/10/22 09.45
03.	Date & Time - Ending of Monitoring	---	07/10/22 9.00	08/10/22 9.15	14/10/22 9.50	15/10/22 10.05	21/10/22 08.30	22/10/22 08.50	28/10/22 09.35	29/10/22 09.45
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NW	SW	NW	SW	SW	SW	SW	NW
06.	Wind Speed Velocity	Km/Hr.	1 to 18	2 to 15	3 to 16	4 to 12	2 to 18	1 to 15	3 to 15	1 to 15
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.	1.10	1.20	1.10	1.20	1.10	1.20	1.20	1.10
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	19.2	25.4	18.7	21	17.2	20.1	26.3	18.2
12.	Permissible Limits of PM10 *	µg/m3	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m3	31	37	33	42	36	35	40	38
14.	Permissible Limits of SO2 *	µg/m3	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO2	µg/m3	12.4	11.8	10.9	11.3	13.7	12.6	11.7	15.2
16.	Permissible Limits of NO2 *	µg/m3	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO2	µg/m3	17.3	18.6	19.7	16.4	20.0	17.9	15.6	19

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 : 27/12/2021



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Ref. No. : 50017/10/2022-23

Date: 31/10/2022

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 : 09/10/2022

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	6.4	7.30
02	Temperature	°C	40	36	25
03	Color	pt.co.	100	55	22
04	Total Dissolved Solids	mg/l	2100	1550	950
05	Suspended Solids	mg/l	100	50	18
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	160	14.9
08	COD	mg/l	100	380	35.0
09	Chlorides	mg/l	600	580	300
10	Sulphates	mg/l	1000	260	91
11	Phenolic Compound	mg/l	2.0	1.8	N.D.
12	Amonical Nitrogen	mg/l	50	26	5.2
13	Sodium Absorption Ratio	%	26	24	15.2
14	Total Chromium (As Cr)	mg/l	0.2	0.40	0.04
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.08	0.05
16	Total Copper (As Cu)	mg/l	1.0	0.04	0.03
17	Total Iron (As Fe)	mg/l	1.0	0.8	0.05
18	Zinc (As Zn)	mg/l	1.0	0.40	0.02
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 Divison**
- 2 Raw materials, by products and finished products involved in the process. **TOTAL DUST**
- 3 Particulars of sampling

Date of Sampling : 08th october 2022

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	1.3-2.5	1.90	10	Gravimetric	1	---	ASHISH	Mr. PATAT ASHISH
2	DRI PLANT-Mech Work Shop	Total Dust		2	1.6-1.8	1.70	10		5	---		
3	Power Plant - AFBC Area	Total Dust		2	1.7-2.0	1.85	10		2	---		
4	SMS - ET Furnace Platform	Total Dust		2	1.1-2.7	1.90	10		3	---		
5	SMS - IT Furnace Platform	Total Dust		2	1.9-2.1	2.00	10		4	---		

** 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

ASHISH
Authorized Sign



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Ref. No. : 60001/11/2022-23

Date: 30/11/2022

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 5
01	Stack Attached to	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4	Boiler of CPP - 30 TPH	D. G. Set
02	Date of sampling	---	23/11/2022	23/11/2022	---	---
03	Time of Sampling	---	09:30	10:10	---	---
04	Air Pollution Control Measures	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln	ESP & Wet Scrubber	-
05	Stack Height	Meter	30	30	30	30
06	Stack Temperature	°C	108	120	Not	Not
07	Ambient Temperature	°C	27	28	Running	Running
08	Average Velocity of Flue Gases	M/Sec.	7.2	6.9	During	During
09	Isokinetic flow rate for P.M. Sampling	LPM	20	20	Visit	Visit
10	Gaseous Sampling Flow Rate	LPM	2.0	2.0	---	---
11	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	150
12	Measured Concentration of P.M.	mg/Nm ³	38	40	---	---
13	Permissible Limit for SO ₂ *	ppm	100	100	100	100
14	Measured Concentration of SO ₂	ppm	13	16	---	--
15	Permissible Limit for Nox*	ppm	50	50	50	50
16	Measured Concentration of Nox	ppm	18	20	---	---

Instrument Used : Stack Monitoring Kit - Ecotech (ESS 100)
Calibration Done On : 27/12/2021

* Permissible limits as per GPCB CC&A.



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Ref. No. : 60002/11/2022-23

Date: 30/11/2022

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 6	Stack No. 7	Stack No. 8	Stack No. 9
01	Stack Attached to	---	Iron Ore Crusher Screen House	Coal Crusher Screen House	Stock House- 1	Stock House-2
02	Date of Sampling	---	23/11/2022	24/11/2022	24/11/2022	24/11/2022
03	Time of Sampling	---	10:40	09:00	09:30	10:10
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	17	17	17	17
06	Stack Temperature	°C	74	68	72	74
07	Ambient Temperature	°C	29	28	28	29
08	Average Velocity of Flue Gases	M/Sec.	7.4	6.8	7.2	7
09	Isokinetic flow rate for P.M. Sampling	LPM	19	21	20	20
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	47	50	45	48

Instrument Used :Stack Monitoring Kit - Ecotech (ESS I00)

* Permissible limits as per GPCB CC&A.

Calibration Done On : 27/12/2021



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Ref. No. : 60003/11/2022-23

Date: 30/11/2022

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 10	Stack No. 11	Stack No. 12	Stack No. 13	Stack No. 14
01	Stack Attached to	—	Coal Injector-1	Coal Injector-2	Intermediate Bin	Raw Material Junction House	Production Separation
02	Date of Sampling	—	24/11/2022	24/11/2022	23/11/2022	24/11/2022	23/11/2022
03	Time of Sampling	—	10:40	11:20	11:10	11:55	11:50
04	Air Pollution Control Measures	—	Bag Filter	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	12	12	22	20	15
06	Stack Temperature	°C	63	65	68	60	70
07	Ambient Temperature	°C	29	29	29	30	30
08	Average Velocity of Flue Gases	M/Sec.	6.9	7.2	7	6.8	7.4
09	Isokinetic flow rate for P.M. Sampling	LPM	19	20	19	20	20
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	48	43	50	43	49

Instrument Used :Stack Monitoring Kit - Ecotech (ESS 100)

* Permissible limits as per GPCB CC&A.

Calibration Done On : 27/12/2021

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Ref. No. : 60004/11/2022-23

Date: 30/11/2022

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 15	Stack No.16
01	Stack Attached to	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of sampling	---	23/11/2022	23/11/2022
03	Time of Sampling	---	12:30	14:30
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	--
06	Stack Temperature	°C	120	118
07	Ambient Temperature	°C	30	31
08	Average Velocity of Flue Gases	M/Sec.	7.5	7.2
09	Isokinetic flow rate for P.M. Sampling	LPM	21	19
10	Permissible Limit for P.M.*	mg/Nm ³	100	100
11	Measured Concentration of P.M.	mg/Nm ³	49	51
12	Permissible Limit for Sox*	ppm	40	40
13	Measured Concentration of SOx	ppm	2.1	1.5
14	Permissible Limit for Nox*	ppm	25	25
15	Measured Concentration of Nox	ppm	11	10.7

* Permissible limits as per GPCB CC&A.

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Ref. No. : 60005/11/2022-23

Date: 30/11/2022

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd. - Steel Division

Welspun City, Survey No. 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch-370110.

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 1
01.	Location of Sampling	----	Nr. Main Security Gate
02.	Date of sampling	---	23/11/2022
03.	Time of sampling	Hrs.	08:30
04.	Duration of Sampling	Min.	1440.00
05.	Dominant Wind Direction (From)		SW
06.	Wind Speed	Km./Hrs.	1 to 16
07.	Average flow rate during sampling	m ³ /minutes	1.10
08.	Average flow rate for Gas sampling	LPM	0.2
09.	Permissible Limits of PM 10 *	µg/m ³	100
10.	Measured Concentration of PM 10	µg/m ³	45
11.	Permissible Limits of PM 2.5*	µg/m ³	60
12.	Measured Concentration of PM 2.5	µg/m ³	38
13.	Permissible Limits of SO ₂ *	µg/m ³	80
14.	Measured Concentration of SO ₂	µg/m ³	13.2
15.	Permissible Limits of NO ₂ *	µg/m ³	80
16.	Measured Concentration of NO ₂	µg/m ³	19.0

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 27/12/2021

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

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Ref. No. : 60006/11/2022-23

Date: 30/11/2022

REPORT OF AMBIENT AIR QUALITY MONITORING

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

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 3	Location No. 4	Location No. 2
01.	Location of Sampling	---	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE	Weight Bridge Security Point
02.	Date of sampling	---	24/11/2022	23/11/2022	24/11/2022
03.	Time of sampling	Hrs.	09:00	08:30	08:40
04.	Duration of Sampling	Min.	1440.00	1440.00	1440.00
05.	Dominant Wind Direction (From)	---	SW	SW	SW
06.	Wind Speed	Km./Hrs.	1 to 16	3 to 18	4 to 12
07.	Average flow rate during sampling	m3/minutes	1.20	1.20	1.10
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2
09.	Permissible Limits of PM 10*	µg/m ³	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	40	35	38
11.	Permissible Limits of PM 2.5*	µg/m ³	60	60	60
12.	Measured Concentration of PM 2.5	µg/m ³	29	30	28
13.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80
14.	Measured Concentration of SO ₂	µg/m ³	14.3	11.6	12.4
15.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80
16.	Measured Concentration of NO ₂	µg/m ³	19.1	20.6	15.2

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 27/12/2021

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

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Ref. No. : 60008/11/2022-23

Date: 30/11/2022

AMBIENT NOISE LEVEL MEASUREMENT

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

Date of Sampling : 23th November 2022

Readings Taken by : Royal Environment

Sr. No.	Location of Sampling	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
	Permissible Limits	75.0	70.0
01.	Nr. Main Security Gate	65.8	54.0
02.	Nr. DRI Workshop area	64.2	54.4
03.	Nr. Weigh Bridge - Security Point	63.5	56.0
04.	Nr. SMS Triangle Garden	62.9	53.0
05.	Nr. CPP Plant - Coal Shed Corner	71.4	57.9
06.	Nr. West Security Gate	65.8	53.3

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 : Lutron Make Sound level meter, Model No. IL- 006719

Calibration done on: 04/03/2022

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Ref. No. : 60009/11/2022-23

Date: 30/11/2022

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sampling : 23th November 2022

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Results in dB(A)
Permissible Limits for 8:00 Hrs.		90.0
DRI Plant		
01	Nr. WorkShop	77.0
02	Between Kiln 1 & 2 (Platform)	79.9
03	Nr. Pump House - DRI	76.3
04	Nr. RMHS	71.2
CPP Plant		
05	Nr. FBC Boiler (CPP)	86.4
06	Nr. TG Building	74.6
07	Nr. Work Shop	73.9
08	Inside Control Room	70.9
SMS Plant		
09	Nr. Furnace Platform Area	73.4
10	Nr. CCM Area	72.6
11	Nr. MECH. Workshop	79.7
12	Nr. Pump House Area	78.8
RM Plant**		
13	Nr. Roughing Section	74.7
14	Nr. Electrical Room	70.1
15	Nr. MECH. WORK	81.2
16	Nr. Cooling Bed Area	70.6

Instruments used : Lutron Make Sound level meter, Model No. IL- 006719

Calibration done on: 04/03/2022

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Ref. No. : 60010/11/2022-23

Date: 30/11/2022

ILLUMINATION LEVEL MEASUREMENT

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

Date of Sampling : 23th November 2022

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
01	Inside Office Building-ADM	200	360	260
02	Inside Control Room - DRI	300	375	370
03	Inside the Canteen	200	370	350
04	QC Lab - DRI Plant	300	365	320
05	Inside Control Room - CPP	300	385	330
06	QC Lab - SMS Plant	300	380	320

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

Calibration done on: 04/03/2022

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Ref. No. : 60011/11/2022-23

Date: 30/11/2022

ANALYSIS RESULT OF FUGITIVE EMISSION

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

Date of Sampling : 23th November 2022

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Permissible Limit**			2000
01	Raw Material Handling Area	Screen Area	890
02		Transfer Point	910
03	Crusher Area	Crushing Point	970
04		Transfer Point	1400
05	Raw Material Feed Area	Feeder Area	940
06		Mixing Area	790
07	Cooler discharge Area	Transfer Point	960
08	Product processing Area	Product Separation Area	1100
09		Bagging Area	780
10		Intermediate Stock bin area	1410

Instruments Used : HVS APM 430, RDS-AAS 217, Calibration done on.: 28/12/2021

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

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Ref. No. : 60012/11/2022-23

Date: 30/11/2022

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 : 24/11/2022

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	7.34
02	Total Dissolved Solids	mg/l	500	2000	135
03	Total Hardness (As CaCO ₃)	mg/l	200	600	47.0
04	Calcium (as Ca)	mg/l	75	200	12.2
05	Magnesium (as Mg)	mg/l	30	100	4.0
06	Chlorides	mg/l	250	1000	34.1
07	Sulphates	mg/l	200	400	14.0
08	Total Alkalinity	mg/l	200	600	39
09	Nitrates	mg/l	45	No relaxation	2.8
10	Flouride	mg/l	1.0	1.5	0.06

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drnking 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. : 60013/11/2022-23

Date: 30/11/2022

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 : 24/11/2022

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	7.41
02	Total Dissolved Solids	mg/l	500	2000	130
03	Total Hardness (As CaCO ₃)	mg/l	200	600	28
04	Calcium (as Ca)	mg/l	75	200	5.0
05	Magnesium (as Mg)	mg/l	30	100	3.8
06	Chlorides	mg/l	250	1000	20.0
07	Sulphates	mg/l	200	400	5.9
08	Total Alkalinity	mg/l	200	600	32.1
09	Nitrates	mg/l	45	No relaxation	2.4
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. : 60014/11/2022-23

Date: 30/11/2022

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 : 24/11/2022

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	7.50
02	Total Dissolved Solids	mg/l	500	2000	125
03	Total Hardness (As CaCO ₃)	mg/l	200	600	38
04	Calcium (as Ca)	mg/l	75	200	6.2
05	Magnesium (as Mg)	mg/l	30	100	5.5
06	Chloridoo	mg/l	250	1000	30.0
07	Sulphates	mg/l	200	400	6.9
08	Total Alkalinity	mg/l	200	600	40
09	Nitrates	mg/l	45	No relaxation	4.1
10	Flouride	mg/l	1.0	1.5	0.05

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drnking 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. : 60015/11/2022-23

Date: 30/11/2022

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 : 24/11/2022

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	7.20
02	Total Dissolved Solids	mg/l	500	2000	135
03	Total Hardness (As CaCO ₃)	mg/l	200	600	40
04	Calcium (as Ca)	mg/l	75	200	7.0
05	Magnesium (as Mg)	mg/l	30	100	5.5
06	Chlorides	mg/l	250	1000	29
07	Sulphates	mg/l	200	400	6.4
08	Total Alkalinity	mg/l	200	600	42
09	Nitrates	mg/l	45	No relaxation	3.9
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. : 60016/11/2022-23

Date: 30/11/2022

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH NOVEMBER - 2022

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	—	01		02		03		04	
02.	Date & Time Starting of Monitoring	—	03/11/22 8.30	04/11/22 8.40	10/11/22 9.00	11/11/22 09.10	17/11/22 8.50	18/11/22 09.00	24/11/22 09.10	25/11/22 09.20
03.	Date & Time - Ending of Monitoring	—	04/11/22 8.30	05/11/22 8.40	11/11/22 9.00	12/11/22 09.10	18/11/22 08.50	19/11/22 09.00	25/11/22 09.10	26/11/22 09.20
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	NE	SE	NE	SW	SF	SF	SW	NW
06.	Wind Speed Velocity	Km/Hr	2 to 10	1 to 15	1 to 15	2 to 15	1 to 10	3 to 15	2 to 20	3 to 15
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.	1.20	1.10	1.20	1.10	1.20	1.10	1.10	1.20
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	20	26.2	19.4	22	18.3	21.6	27.2	19.3
12.	Permissible Limits of PM10 *	µg/m3	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m3	36	40	45	40	39	34	31	30
14.	Permissible Limits of SO2 *	µg/m3	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO2	µg/m3	13.3	12.6	11.4	10.0	12.6	11.4	12.0	16.1
16.	Permissible Limits of NO2 *	µg/m3	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO2	µg/m3	18.5	19.3	20.0	17.2	21.1	18.3	16.4	20

Instrument Used: 1) Ecotech make RDS, Model No.: APM - 217BL & Gaseous Pollutants Sampler Model No. AAS-100, PM 2.5 Sampler AAS 127
Calibration Done On. : 27/12/2021

Royal Environment Auditing & Consultancy Service, Rajkot



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Ref. No. : 60017/11/2022-23

Date: 30/11/2022

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 : 24/11/2022

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	6.2	7.50
02	Temperature	°C	40	34	28
03	Color	pt.co.	100	60	25
04	Total Dissolved Solids	mg/l	2100	1600	940
05	Suspended Solids	mg/l	100	60	20
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	155	13.8
08	COD	mg/l	100	370	36.0
09	Chlorides	mg/l	600	570	290
10	Sulphates	mg/l	1000	250	90
11	Phenolic Compound	mg/l	2.0	1.7	N.D.
12	Amonical Nitrogen	mg/l	50	29	5.6
13	Sodium Absorption Ratio	%	26	26	15.0
14	Total Chromium (As Cr)	mg/l	0.2	0.60	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	0.05	0.04
17	Total Iron (As Fe)	mg/l	1.0	0.7	0.04
18	Zinc (As Zn)	mg/l	1.0	0.50	0.03
19	Bio - assay test	Hours	90% Survival of fish after 96 hours in 100% effluent	N.A.	97%

(*) 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 : 23th November 2022

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	DR1 Plant - Kiln Plat form Area	Total Dust	Personal Respirable Dust sampler VPDS 203	2	1.5-2.1	1.80	10	Gravimetric	5	---	ASMSH	Mr. PATAT ASHISH
2	DR1 PLANT-Mech Work Shop	Total Dust		2	1.9-1.4	1.65	10		4	---		
3	Power Plant - AFBC Area	Total Dust		2	1.6-2.2	1.50	10		1	---		
4	SMS - ET Furnace Platform	Total Dust		2	1.3-2.6	1.55	10		2	---		
5	SMS - IT Furnace Platform	Total Dust		2	2.0-1.7	1.55	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

Patat
Authorized Sign



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Ref. No. : 70001/12/2022-23

Date: 02/01/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 5
01	Stack Attached to	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4	Boiler of CPP - 30 TPH	D. G. Set
02	Date of sampling	---	25/12/2022	25/12/2022	25/12/2022	---
03	Time of Sampling	---	09:00	9:40	10:30	---
04	Air Pollution Control Measures	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln	ESP & Wet Scrubber	-
05	Stack Height	Meter	30	30	30	30
06	Stack Temperature	°C	115	123	128	Not
07	Ambient Temperature	°C	27	27	28	Running
08	Average Velocity of Flue Gases	M/Sec.	6.8	7.2	7	During
09	Isokinetic flow rate for P.M. Sampling	LPM	21	20	20	Visit
10	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	---
11	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	150
12	Measured Concentration of P.M.	mg/Nm ³	42	43	46	---
13	Permissible Limit for SO ₂ *	ppm	100	100	100	100
14	Measured Concentration of SO ₂	ppm	15	18	22	--
15	Permissible Limit for Nox*	ppm	50	50	50	50
16	Measured Concentration of Nox	ppm	19	17	18	---

Instrument Used : Stack Monitoring Kit - Ecotech (ESS I00)
Calibration Done On : 27/12/2021

* Permissible limits as per GPCB CC&A.

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Ref. No. : 70002/12/2022-23

Date: 02/01/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 6	Stack No. 7	Stack No. 8	Stack No. 9
01	Stack Attached to	---	Iron Ore Crusher Screen House	Coal Crusher Screen House	Stock House- 1	Stock House-2
02	Date of Sampling	---	25/12/2022	26/12/2022	26/12/2022	26/12/2022
03	Time of Sampling	---	11:10	09:10	09:50	10:30
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	17	17	17	17
06	Stack Temperature	°C	73	64	70	75
07	Ambient Temperature	°C	28	27	27	28
08	Average Velocity of Flue Gases	M/Sec.	6.9	7.1	7.3	7.4
09	Isokinetic flow rate for P.M. Sampling	LPM	20	19	21	21
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	48	52	49	51

Instrument Used : Stack Monitoring Kit - Ecotech (ESS I00)

* Permissible limits as per GPCB CC&A.

Calibration Done On : 27/12/2021

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Ref. No. : 70003/12/2022-23

Date: 02/01/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 10	Stack No. 11	Stack No. 12	Stack No. 13	Stack No. 14
01	Stack Attached to	---	Coal Injector-1	Coal Injector-2	Intermediate Bin	Raw Material Junction House	Production Separation
02	Date of Sampling	---	26/12/2022	26/12/2022	26/12/2022	25/12/2022	25/12/2022
03	Time of Sampling	---	11:10	11:50	12:30	11:50	12:30
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	12	12	22	20	15
06	Stack Temperature	°C	65	64	69	62	72
07	Ambient Temperature	°C	29	29	30	29	30
08	Average Velocity of Flue Gases	M/Sec.	7.3	6.9	7.4	6.7	7.2
09	Isokinetic flow rate for P.M. Sampling	LPM	20	19	21	19	21
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	48	47	53	46	50

Instrument Used : Stack Monitoring Kit - Ecotech (ESS 100)

* Permissible limits as per GPCB CC&A

Calibration Done On : 27/12/2021

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Ref. No. : 70004/12/2022-23

Date: 02/01/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 15	Stack No.16
01	Stack Attached to	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of sampling	---	25/12/2022	25/12/2022
03	Time of Sampling	---	14:00	14:40
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	--
06	Stack Temperature	°C	122	120
07	Ambient Temperature	°C	31	31
08	Average Velocity of Flue Gases	M/Sec.	7.6	7.4
09	Isokinetic flow rate for P.M. Sampling	LPM	20	21
10	Permissible Limit for P.M.*	mg/Nm ³	100	100
11	Measured Concentration of P.M.	mg/Nm ³	52	54
12	Permissible Limit for Sox*	ppm	40	40
13	Measured Concentration of SOx	ppm	3.4	2.9
14	Permissible Limit for Nox*	ppm	25	25
15	Measured Concentration of Nox	ppm	12.1	10.8

* Permissible limits as per GPCB CC&A.

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Ref. No. : 70005/12/2022-23

Date: 02/01/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd. - Steel Division

Welspun City, Survey No. 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch-370110.

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 1
01.	Location of Sampling	---	Nr. Main Security Gate
02.	Date of sampling	---	25/12/2022
03.	Time of sampling	Hrs.	9:00
04.	Duration of Sampling	Min.	1440.00
05.	Dominant Wind Direction (From)	---	SE
06.	Wind Speed	Km./Hrs.	2 to 20
07.	Average flow rate during sampling	m3/minutes	1.20
08.	Average flow rate for Gas sampling	LPM	0.2
09.	Permissible Limits of PM 10 *	$\mu\text{g}/\text{m}^3$	100
10.	Measured Concentration of PM 10	$\mu\text{g}/\text{m}^3$	48
11.	Permissible Limits of PM 2.5*	$\mu\text{g}/\text{m}^3$	60
12.	Measured Concentration of PM 2.5	$\mu\text{g}/\text{m}^3$	35
13.	Permissible Limits of SO ₂ *	$\mu\text{g}/\text{m}^3$	80
14.	Measured Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	14.0
15.	Permissible Limits of NO ₂ *	$\mu\text{g}/\text{m}^3$	80
16.	Measured Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	20.0

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 27/12/2021

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

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Ref. No. : 70006/12/2022-23

Date: 02/01/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

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

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 3	Location No. 4	Location No. 2
01.	Location of Sampling	----	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE	Weight Bridge Security Point
02.	Date of sampling	----	26/12/2022	25/12/2022	26/12/2022
03.	Time of sampling	Hrs.	8:50	9:10	09:00
04.	Duration of Sampling	Min.	1440.00	1440.00	1440.00
05.	Dominant Wind Direction (From)	----	SE	SE	SE
06.	Wind Speed	Km./Hrs.	2 to 20	1 to 15	3 to 12
07.	Average flow rate during sampling	m3/minutes	1.10	1.10	1.20
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2
09.	Permissible Limits of PM 10*	µg/m ³	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	41	40	42
11.	Permissible Limits of PM 2.5*	µg/m ³	60	60	60
12.	Measured Concentration of PM 2.5	µg/m ³	30	31	29
13.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80
14.	Measured Concentration of SO ₂	µg/m ³	15.2	12.9	13.3
15.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80
16.	Measured Concentration of NO ₂	µg/m ³	20.0	21.0	14.9

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 27/12/2021

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

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Ref. No. : 70008/12/2022-23

Date: 02/01/2023

AMBIENT NOISE LEVEL MEASUREMENT

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

Date of Sampling : 25th December 2022

Readings Taken by : Royal Environment

Sr. No.	Location of Sampling	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
	Permissible Limits	75.0	70.0
01.	Nr. Main Security Gate	63.2	53.3
02.	Nr. DRI Workshop area	65.3	57.9
03.	Nr. Weigh Bridge - Security Point	64.1	58.8
04.	Nr. SMS Triangle Garden	61.9	54.6
05.	Nr. CPP Plant - Coal Shed Corner	70.5	61.3
06.	Nr. West Security Gate	66	59.8

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 : Lutron Make Sound level meter, Model No. IL- 006719

Calibration done on: 04/03/2022



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Ref. No. : 70009/12/2022-23

Date: 02/01/2023

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110

Date of Sampling : 25th December 2022

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Results in dB(A)
Permissible Limits for 8:00 Hrs.		90.0
DRI Plant		
01	Nr. WorkShop	76.9
02	Between Kiln 1 & 2 (Platform)	80.0
03	Nr. Pump House - DRI	77.2
04	Nr. RMHS	72.2
CPP Plant		
05	Nr. FBC Boiler (CPP)	85.9
06	Nr. TG Building	75.2
07	Nr. Work Shop	74.0
08	Inside Control Room	69.7
SMS Plant		
09	Nr. Furnace Platform Area	74.2
10	Nr. CCM Area	73.3
11	Nr. MECH. Workshop	78.5
12	Nr. Pump House Area	77.4
RM Plant**		
13	Nr. Roughing Section	75.2
14	Nr. Electrical Room	69.9
15	Nr. MECH. WORK	80.3
16	Nr. Cooling Bed Area	73.4

Instruments used : Lutron Make Sound level meter, Model No. IL- 006719

Calibration done on 04/03/2022

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Ref. No. : 70010/12/2022-23

Date: 02/01/2023

ILLUMINATION LEVEL MEASUREMENT

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

Date of Sampling : 25th December 2022

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
01	Inside Office Building-ADM	200	365	270
02	Inside Control Room - DRI	300	380	360
03	Inside the Canteen	200	375	355
04	QC Lab - DRI Plant	300	370	335
05	Inside Control Room - CPP	300	390	340
06	QC Lab - SMS Plant	300	375	330

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

Calibration done on: 04/03/2022

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Ref. No. : 70011/12/2022-23

Date: 02/01/2023

ANALYSIS RESULT OF FUGITIVE EMISSION

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

Date of Sampling : 25th December 2022

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Permissible Limit**			2000
01	Raw Material Handling Area	Screen Area	900
02		Transfer Point	925
03	Crusher Area	Crushing Point	980
04		Transfer Point	1430
05	Raw Material Feed Area	Feeder Area	890
06		Mixing Area	800
07	Cooler discharge Area	Transfer Point	940
08	Product processing Area	Product Separation Area	1090
09		Bagging Area	770
10		Intermediate Stock bin area	1390

Instruments Used : HVS APM 430, RDS-AAS 217, Calibration done on.: 28/12/2021

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

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Ref. No. : 70012/12/2022-23

Date: 02/01/2023

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 : 26/12/2022

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	7.40
02	Total Dissolved Solids	mg/l	500	2000	130
03	Total Hardness (As CaCO ₃)	mg/l	200	600	48.0
04	Calcium (as Ca)	mg/l	75	200	13.3
05	Magnesium (as Mg)	mg/l	30	100	3.6
06	Chlorides	mg/l	250	1000	35.0
07	Sulphates	mg/l	200	400	15.0
08	Total Alkalinity	mg/l	200	600	40
09	Nitrates	mg/l	45	No relaxation	3.1
10	Flouride	mg/l	1.0	1.5	0.07

(*) 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. : 70013/12/2022-23

Date: 02/01/2023

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 : 26/12/2022

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	7.30
02	Total Dissolved Solids	mg/l	500	2000	125
03	Total Hardness (As CaCO ₃)	mg/l	200	600	29
04	Calcium (as Ca)	mg/l	75	200	4.9
05	Magnesium (as Mg)	mg/l	30	100	4.1
06	Chlorides	mg/l	250	1000	21.0
07	Sulphates	mg/l	200	400	6.0
08	Total Alkalinity	mg/l	200	600	33
09	Nitrates	mg/l	45	No relaxation	2.6
10	Flouride	mg/l	1.0	1.5	0.07

(*) 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.

Royal Environment Auditing & Consultancy Service



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Ref. No. : 70014/12/2022-23

Date: 02/01/2023

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 : 26/12/2022

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	7.40
02	Total Dissolved Solids	mg/l	500	2000	130
03	Total Hardness (As CaCO ₃)	mg/l	200	600	39
04	Calcium (as Ca)	mg/l	75	200	6.4
05	Magnesium (as Mg)	mg/l	30	100	5.6
06	Chlorides	mg/l	250	1000	29.0
07	Sulphates	mg/l	200	400	7.0
08	Total Alkalinity	mg/l	200	600	42
09	Nitrates	mg/l	45	No relaxation	3.9
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. : 70015/12/2022-23

Date: 02/01/2023

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 : 26/12/2022

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	7.30
02	Total Dissolved Solids	mg/l	500	2000	140
03	Total Hardness (As CaCO ₃)	mg/l	200	600	42
04	Calcium (as Ca)	mg/l	75	200	6.8
05	Magnesium (as Mg)	mg/l	30	100	6.1
06	Chlorides	mg/l	250	1000	30
07	Sulphates	mg/l	200	400	6.0
08	Total Alkalinity	mg/l	200	600	40
09	Nitrates	mg/l	45	No relaxation	4.0
10	Flouride	mg/l	1.0	1.5	0.07

(*) 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. : 70016/12/2022-23

Date: 02/01/2023

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH NOVEMBER - 2022

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	—	01/12/22 09:00	02/12/22 09:10	08/12/22 08:40	09/12/22 08:50	15/12/22 09:30	16/12/22 09:40	22/12/22 08:30	23/12/22 08:40	29/12/22 09:00	30/12/22 09:10
03.	Date & Time - Ending of Monitoring	—	02/12/22 09:00	03/12/22 09:10	09/12/22 08:40	10/12/22 08:50	16/12/22 09:30	17/12/22 09:40	23/12/22 08:30	24/12/22 08:40	30/12/22 09:00	31/12/22 09:10
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	NW	SW	NW	SE	SW	SW	SE	SW	SE	NE
06.	Wind Speed Velocity	Km/Hr.	1 to 18	2 to 16	4 to 15	1 to 20	2 to 18	4 to 16	1 to 15	2 to 20	1 to 16	2 to 14
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.	1.10	1.20	1.20	1.10	1.10	1.20	1.10	1.20	1.20	1.10
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	21.4	27	20	23.6	19.7	22.4	19.4	22.5	21.3	20.4
12.	Permissible Limits of PM10 *	µg/m3	100	100	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m3	38	42	48	43	40	36	44	33	32	38
14.	Permissible Limits of SO2 *	µg/m3	80	80	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO2	µg/m3	14.9	13.0	12.0	11.6	13.5	14.2	13.9	12.1	13.3	17.6
16.	Permissible Limits of NO2 *	µg/m3	80	80	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO2	µg/m3	19.6	18.9	21.7	18.0	22.4	19.2	23.3	19.0	17.7	19.9

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 : 27/12/2021

Royal Environment Auditing & Consultancy Service, Rajkot



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Ref. No. : 70017/12/2022-23

Date: 02/01/2023

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 : 26/12/2022

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	6	7.30
02	Temperature	°C	40	36	29
03	Color	pt.co.	100	70	28
04	Total Dissolved Solids	mg/l	2100	1700	950
05	Suspended Solids	mg/l	100	70	22
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	150	13.0
08	COD	mg/l	100	380	37.0
09	Chlorides	mg/l	600	550	280
10	Sulphates	mg/l	1000	260	80
11	Phenolic Compound	mg/l	2.0	2.1	N.D.
12	Amonical Nitrogen	mg/l	50	30	6
13	Sodium Absorption Ratio	%	26	29	16.0
14	Total Chromium (As Cr)	mg/l	0.2	0.80	0.06
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.08	0.07
16	Total Copper (As Cu)	mg/l	1.0	0.06	0.05
17	Total Iron (As Fe)	mg/l	1.0	0.8	0.05
18	Zinc (As Zn)	mg/l	1.0	0.60	0.04
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 : 25th December 2022

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	1.3-2.0	1.65	10	Gravimetric	4	---	ASHISH	Mr. PATAT ASHISH
2	DRI PLANT-Mech Work Shop	Total Dust		2	2.3-1.1	1.70	10		2	---		
3	Power Plant - AFBC Area	Total Dust		2	1.8-1.9	1.85	10		3	---		
4	SMS - ET Furnace Platform	Total Dust		2	1.6-2.2	1.90	10		4	---		
5	SMS - IT Furnace Platform	Total Dust		2	2.3-1.6	1.95	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

Patat
Authorized Sign



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Ref. No. : 80001/01/2022-23

Date: 01/02/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 5
01	Stack Attached to	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4	Boiler of CPP - 30 TPH	D. G. Set
02	Date of sampling	---	21/01/2023	21/01/2023	--	---
03	Time of Sampling	---	09:30	10:10	--	---
04	Air Pollution Control Measures	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln	ESP & Wet Scrubber	-
05	Stack Height	Meter	30	30	30	30
06	Stack Temperature	°C	118	121	Not	Not
07	Ambient Temperature	°C	21	21	Running	Running
08	Average Velocity of Flue Gases	M/Sec.	7.2	7.6	During	During
09	Isokinetic flow rate for P.M. Sampling	LPM	22	21	Visit	Visit
10	Gaseous Sampling Flow Rate	LPM	2.0	2.0	--	---
11	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	150
12	Measured Concentration of P.M.	mg/Nm ³	48	46	--	---
13	Permissible Limit for SO ₂ *	ppm	100	100	100	100
14	Measured Concentration of SO ₂	ppm	19	14	--	--
15	Permissible Limit for Nox*	ppm	50	50	50	50
16	Measured Concentration of Nox	ppm	20	15	--	---

Instrument Used :Stack Monitoring Kit - Ecotech (ESS I00)

* Permissible limits as per GPCB CC&A.

Calibration Done On. : 26/12/2022

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Ref. No. : 80002/01/2022-23

Date: 01/02/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 6	Stack No. 7	Stack No. 8	Stack No. 9
01	Stack Attached to	----	Iron Ore Crusher Screen House	Coal Crusher Screen House	Stock House- 1	Stock House-2
02	Date of Sampling	----	21/01/2023	21/01/2023	21/01/2023	21/01/2023
03	Time of Sampling	----	10:50	11:30	12:20	14:00
04	Air Pollution Control Measures	----	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	17	17	17	17
06	Stack Temperature	°C	76	68	69	71
07	Ambient Temperature	°C	21	22	22	23
08	Average Velocity of Flue Gases	M/Sec.	7.4	6.9	7.6	7
09	Isokinetic flow rate for P.M. Sampling	LPM	21	20	19	20
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	44	49	50	47

Instrument Used :Stack Monitoring Kit - Ecotech (ESS I00)
Calibration Done On . : 26/12/2022

* Permissible limits as per GPCB CC&A.

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Ref. No. : 80003/01/2022-23

Date: 01/02/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 10	Stack No. 11	Stack No. 12	Stack No. 13	Stack No. 14
01	Stack Attached to	---	Coal Injector-1	Coal Injector-2	Intermediate Bin	Raw Material Junction House	Production Separation
02	Date of Sampling	---	21/01/2023	21/01/2023	22/01/2023	22/01/2023	22/01/2023
03	Time of Sampling	---	14:50	15:30	14:00	14:50	15:30
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	12	12	22	20	15
06	Stack Temperature	°C	68	66	67	65	70
07	Ambient Temperature	°C	23	23	22	22	23
08	Average Velocity of Flue Gases	M/Sec.	6.8	7.2	7.4	7	6.9
09	Isokinetic flow rate for P.M. Sampling	LPM	21	20	19	20	20
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	52	49	50	48	53

Instrument Used :Stack Monitoring Kit - Ecotech (ESS 100)

* Permissible limits as per GPCB CC&A.

Calibration Done On : 26/12/2022

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Ref. No. : 80004/01/2022-23

Date: 01/02/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 15	Stack No.16
01	Stack Attached to	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of sampling	---	22/01/2023	22/01/2023
03	Time of Sampling	---	09:00	09:40
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	--
06	Stack Temperature	°C	119	121
07	Ambient Temperature	°C	20	20
08	Average Velocity of Flue Gases	M/Sec.	7.1	7.6
09	Isokinetic flow rate for P.M. Sampling	LPM	19	20
10	Permissible Limit for P.M.*	mg/Nm ³	100	100
11	Measured Concentration of P.M.	mg/Nm ³	49	51
12	Permissible Limit for Sox*	ppm	40	40
13	Measured Concentration of SOx	ppm	4.1	3.7
14	Permissible Limit for Nox*	ppm	25	25
15	Measured Concentration of Nox	ppm	13	12

* Permissible limits as per GPCB CC&A.

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Ref. No. : 80005/01/2022-23

Date: 01/02/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd. - Steel Division

Welspun City, Survey No. 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch-370110.

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 1
01.	Location of Sampling	----	Nr. Main Security Gate
02.	Date of sampling	----	21/01/2023
03.	Time of sampling	Hrs.	08:30
04.	Duration of Sampling	Min.	1440.00
05.	Dominant Wind Direction (From)	----	SW
06.	Wind Speed	Km./Hrs.	1 to 18
07.	Average flow rate during sampling	m ³ /minutes	1.10
08.	Average flow rate for Gas sampling	LPM	0.2
09.	Permissible Limits of PM 10 *	µg/m ³	100
10.	Measured Concentration of PM 10	µg/m ³	50
11.	Permissible Limits of PM 2.5*	µg/m ³	60
12.	Measured Concentration of PM 2.5	µg/m ³	40
13.	Permissible Limits of SO ₂ *	µg/m ³	80
14.	Measured Concentration of SO ₂	µg/m ³	16.0
15.	Permissible Limits of NO ₂ *	µg/m ³	80
16.	Measured Concentration of NO ₂	µg/m ³	23.0

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 26/12/2022

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

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Ref. No. : 80006/01/2022-23

Date: 01/02/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

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

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 3	Location No. 4	Location No. 2
01.	Location of Sampling	----	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE	Weight Bridge Security Point
02.	Date of sampling	----	22/01/2023	21/01/2023	22/01/2023
03.	Time of sampling	Hrs.	8:30	9:00	09:10
04.	Duration of Sampling	Min.	1440.00	1440.00	1440.00
05.	Dominant Wind Direction (From)	----	SW	SW	SW
06.	Wind Speed	Km./Hrs.	1 to 18	2 to 20	2 to 16
07.	Average flow rate during sampling	m3/minutes	1.20	1.20	1.10
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2
09.	Permissible Limits of PM 10*	µg/m ³	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	45	47	48
11.	Permissible Limits of PM 2.5*	µg/m ³	60	60	60
12.	Measured Concentration of PM 2.5	µg/m ³	27	28	30
13.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80
14.	Measured Concentration of SO ₂	µg/m ³	16.0	13	14
15.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80
16.	Measured Concentration of NO ₂	µg/m ³	23.0	22.0	15.0

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 26/12/2022

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

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Ref. No. : 80008/01/2022-23

Date: 01/02/2023

AMBIENT NOISE LEVEL MEASUREMENT

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

Date of Sampling : 21th January 2023

Readings Taken by : Royal Environment

Sr. No.	Location of Sampling	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
	Permissible Limits	75.0	70.0
01.	Nr. Main Security Gate	64.0	54.0
02.	Nr. DRI Workshop area	66.0	58.0
03.	Nr. Weigh Bridge - Security Point	65.0	59.0
04.	Nr. SMS Triangle Garden	62.0	55.0
05.	Nr. CPP Plant - Coal Shed Corner	72.0	62.0
06.	Nr. West Security Gate	65	60.0

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 : Lutron Make Sound level meter, Model No. IL- 006719

Calibration done on: 04/03/2022



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Ref. No. : 80009/01/2022-23

Date: 01/02/2023

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650.

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sampling : 21th January 2023

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Results in dB(A)
Permissible Limits for 8:00 Hrs.		90.0
DRI Plant		
01	Nr. WorkShop	75.7
02	Between Kiln 1 & 2 (Platform)	79.5
03	Nr. Pump House - DRI	78
04	Nr. RMHS	73.4
CPP Plant		
05	Nr. FBC Boiler (CPP)	86.2
06	Nr. TG Building	79.9
07	Nr. Work Shop	76.8
08	Inside Control Room	75.2
SMS Plant		
09	Nr. Furnace Platform Area	76.2
10	Nr. CCM Area	74.9
11	Nr. MECH. Workshop	79.1
12	Nr. Pump House Area	78.8
RM Plant**		
13	Nr. Roughing Section	76.2
14	Nr. Electrical Room	72.2
15	Nr. MECH. WORK	81.0
16	Nr. Cooling Bed Area	75.1

Instruments used : Lutron Make Sound level meter, Model No. SL- 4030

Calibration done on: 04/03/2022

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Ashish
Analyst



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Ref. No. : 80010/01/2022-23

Date: 01/02/2023

ILLUMINATION LEVEL MEASUREMENT

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

Date of Sampling : 21th January 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
01	Inside Office Building-ADM	200	360	280
02	Inside Control Room - DRI	300	385	355
03	Inside the Canteen	200	365	350
04	QC Lab - DRI Plant	300	360	340
05	Inside Control Room - CPP	300	380	345
06	QC Lab - SMS Plant	300	370	335

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

Calibration done on: 04/03/2022

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Ref. No. : 80011/01/2022-23

Date: 01/02/2023

ANALYSIS RESULT OF FUGITIVE EMISSION

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

Date of Sampling : 21th January 2023

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Permissible Limit**			2000
01	Raw Material Handling Area	Screen Area	890
02		Transfer Point	900
03	Crusher Area	Crushing Point	975
04		Transfer Point	1390
05	Raw Material Feed Area	Feeder Area	900
06		Mixing Area	885
07	Cooler discharge Area	Transfer Point	955
08	Product processing Area	Product Separation Area	1100
09		Bagging Area	785
10		Intermediate Stock bin area	1280

Instruments Used : HVS APM 430, RDS-AAS 217, Calibration done on.: 28/12/2021

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

Royal Environment Auditing & Consultancy Service, Rajkot



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Ref. No. : 80012/01/2022-23

Date: 01/02/2023

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 : 22/01/2023

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	7.30
02	Total Dissolved Solids	mg/l	500	2000	125
03	Total Hardness (As CaCO ₃)	mg/l	200	600	50.0
04	Calcium (as Ca)	mg/l	75	200	14.0
05	Magnesium (as Mg)	mg/l	30	100	3.7
06	Chlorides	mg/l	250	1000	38.0
07	Sulphates	mg/l	200	400	16.0
08	Total Alkalinity	mg/l	200	600	39
09	Nitrates	mg/l	45	No relaxation	4.0
10	Flouride	mg/l	1.0	1.5	0.08

(*) 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. : 80013/01/2022-23

Date: 01/02/2023

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 : 22/01/2023

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	7.50
02	Total Dissolved Solids	mg/l	500	2000	115
03	Total Hardness (As CaCO ₃)	mg/l	200	600	30
04	Calcium (as Ca)	mg/l	75	200	5.0
05	Magnesium (as Mg)	mg/l	30	100	4.3
06	Chlorides	mg/l	250	1000	22.0
07	Sulphates	mg/l	200	400	5.0
08	Total Alkalinity	mg/l	200	600	35
09	Nitrates	mg/l	45	No relaxation	2.9
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. : 80014/01/2022-23

Date: 01/02/2023

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 : 22/01/2023

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	7.20
02	Total Dissolved Solids	mg/l	500	2000	125
03	Total Hardness (As CaCO ₃)	mg/l	200	600	40
04	Calcium (as Ca)	mg/l	75	200	5.9
05	Magnesium (as Mg)	mg/l	30	100	6.1
06	Chlorides	mg/l	250	1000	30.0
07	Sulphates	mg/l	200	400	6.0
08	Total Alkalinity	mg/l	200	600	45
09	Nitrates	mg/l	45	No relaxation	4.0
10	Flouride	mg/l	1.0	1.5	0.07

(*) 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. : 80015/01/2022-23

Date: 01/02/2023

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 : 22/01/2023

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	7.50
02	Total Dissolved Solids	mg/l	500	2000	135
03	Total Hardness (As CaCO ₃)	mg/l	200	600	45
04	Calcium (as Ca)	mg/l	75	200	7.0
05	Magnesium (as Mg)	mg/l	30	100	6.7
06	Chlorides	mg/l	250	1000	32
07	Sulphates	mg/l	200	400	7.0
08	Total Alkalinity	mg/l	200	600	43
09	Nitrates	mg/l	45	No relaxation	5.0
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. : 80016/01/2022-23

Date: 01/02/2023

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH JANUARY - 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	---	05/01/23 08:40	06/01/23 08:50	12/01/23 09:00	13/01/23 09:10	19/01/23 08:30	20/01/23 08:40	26/01/23 09:30	27/01/23 09:40
03.	Date & Time - Ending of Monitoring	---	06/01/23 08:40	07/01/23 08:50	13/01/23 09:00	14/01/23 09:10	20/01/23 08:30	21/01/23 08:40	27/01/23 09:30	28/01/23 09:40
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	SE	NE	SW	SE	SE	SW	NW
06.	Wind Speed Velocity	Km/Hr.	2 to 16	1 to 15	3 to 12	4 to 16	2 to 20	3 to 18	1 to 20	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.	1.20	1.10	1.10	1.20	1.20	1.10	1.10	1.20
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	24	29	25	24	21	23	22	26
12.	Permissible Limits of PM10 *	µg/m3	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m3	40	47	52	50	49	48	39	40
14.	Permissible Limits of SO2 *	µg/m3	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO2	µg/m3	15.0	14.1	11.9	12.8	14.6	15.6	14.2	18.7
16.	Permissible Limits of NO2 *	µg/m3	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO2	µg/m3	18.7	19.2	22.4	19.8	21.0	20.0	18.9	20

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



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Ref. No. : 80017/01/2022-23

Date: 01/02/2023

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 : 22/01/2023

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	6.1	7.40
02	Temperature	°C	40	38	30
03	Color	pt.co.	100	75	30
04	Total Dissolved Solids	mg/l	2100	1680	930
05	Suspended Solids	mg/l	100	68	20
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	165	14.0
08	COD	mg/l	100	375	35.0
09	Chlorides	mg/l	600	545	275
10	Sulphates	mg/l	1000	255	75
11	Phenolic Compound	mg/l	2.0	2.8	N.D.
12	Amonical Nitrogen	mg/l	50	29	5
13	Sodium Absorption Ratio	%	26	30	17.0
14	Total Chromium (As Cr)	mg/l	0.2	0.90	0.07
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.09	0.06
16	Total Copper (As Cu)	mg/l	1.0	0.07	0.06
17	Total Iron (As Fe)	mg/l	1.0	0.9	0.06
18	Zinc (As Zn)	mg/l	1.0	0.70	0.05
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

Royal Environment Auditing & Consultancy Service



Chandana
Analyst

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 : 21th January 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	Average						
1	DRI Plant - Kiln Plat form Area	Total Dust	Personal Respirable Dust sampler VPDS 203	2	1.2-1.9	1.55	Gravimetric	5	---		Mr. PATAT ASHISH
2	DRI PLANT-Mech Work Shop	Total Dust		2	2.0-1.3	1.65		3	---		
3	Power Plant - AFBC Area	Total Dust		2	2.1-1.7	1.90		2	---		
4	SMS - ET Furnace Platform	Total Dust		2	1.7-2.0	1.85		5	---		
5	SMS - IT Furnace Platform	Total Dust		2	2.4-1.6	2.00		4	---		

** 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. : 90001/02/2022-23

Date: 01/03/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 5
01	Stack Attached to	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4	Boiler of CPP - 30 TPH	D. G. Set
02	Date of sampling	---	21/02/2023	21/02/2023	--	21/02/2023
03	Time of Sampling	---	10:30	09:45	--	12:15
04	Air Pollution Control Measures	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln	ESP & Wet Scrubber	-
05	Stack Height	Meter	30	30	30	30
06	Stack Temperature	°C	121	124	Not	116
07	Ambient Temperature	°C	26	25	Running	26
08	Average Velocity of Flue Gases	M/Sec.	7.8	7.1	During	7.9
09	Isokinetic flow rate for P.M. Sampling	LPM	23	20	Visit	19
10	Gaseous Sampling Flow Rate	LPM	2.0	2.0	---	2.0
11	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	150
12	Measured Concentration of P.M.	mg/Nm ³	51	48	---	46
13	Permissible Limit for SO ₂ *	ppm	100	100	100	100
14	Measured Concentration of SO ₂	ppm	20	17	--	23
15	Permissible Limit for Nox*	ppm	50	50	50	50
16	Measured Concentration of Nox	ppm	23	18	---	29.0

Instrument Used :Stack Monitoring Kit - Ecotech (ESS 100)
Calibration Done On . : 26/12/2022

* Permissible limits as per GPCB CC&A.

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Ref. No. : 90002/02/2022-23

Date: 01/03/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 6	Stack No. 7	Stack No. 8	Stack No. 9
01	Stack Attached to	---	Iron Ore Crusher Screen House	Coal Crusher Screen House	Stock House- 1	Stock House-2
02	Date of Sampling	---	21/02/2023	21/02/2023	21/02/2023	21/02/2023
03	Time of Sampling	---	09:45	12:00	13:30	15:00
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	17	17	17	17
06	Stack Temperature	°C	71	69	72	68
07	Ambient Temperature	°C	24	26	26	21
08	Average Velocity of Flue Gases	M/Sec.	7.6	6.3	7.8	6.6
09	Isokinetic flow rate for P.M. Sampling	LPM	23	19	23	22
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	48	50	56	51

Instrument Used :Stack Monitoring Kit - Ecotech (ESS I00)

* Permissible limits as per GPCB CC&A.

Calibration Done On : 26/12/2022

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Ref. No. : 90003/02/2022-23

Date: 01/03/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 10	Stack No. 11	Stack No. 12	Stack No. 13	Stack No. 14
01	Stack Attached to	---	Coal Injector-1	Coal Injector-2	Intermediate Bin	Raw Material Junction House	Production Separation
02	Date of Sampling	---	21/02/2023	21/02/2023	22/02/2023	22/02/2023	22/02/2023
03	Time of Sampling	---	13:15	14:30	12:20	14:00	16:00
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	12	12	22	20	15
06	Stack Temperature	°C	71	63	69	62	72
07	Ambient Temperature	°C	26	26	25	27	25
08	Average Velocity of Flue Gases	M/Sec.	7.1	6.4	7.8	6.5	6.4
09	Isokinetic flow rate for P.M. Sampling	LPM	22	19	23	18	17
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	54	46	48	43	56

Instrument Used : Stack Monitoring Kit - Ecotech (ESS I00)

* Permissible limits as per GPCB CC&A.

Calibration Done On : 26/12/2022

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Ref. No. : 90004/02/2022-23

Date: 01/03/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 15	Stack No.16
01	Stack Attached to	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of sampling	---	22/02/2023	--
03	Time of Sampling	---	09:10	--
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack Height	Meter	--	--
06	Stack Temperature	°C	120	NOT
07	Ambient Temperature	°C	25	RUNNING
08	Average Velocity of Flue Gases	M/Sec.	6.8	DURING
09	Isokinetic flow rate for P.M. Sampling	LPM	18	VISITE
10	Permissible Limit for P.M.*	mg/Nm ³	100	100
11	Measured Concentration of P.M.	mg/Nm ³	52	--
12	Permissible Limit for Sox*	ppm	40	40
13	Measured Concentration of SOx	ppm	5.3	--
14	Permissible Limit for Nox*	ppm	25	25
15	Measured Concentration of Nox	ppm	14	--

* Permissible limits as per GPCB CC&A.

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Ref. No. : 90005/02/2022-23

Date: 01/03/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd. - Steel Division

Welspun City, Survey No. 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch-370110.

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 1
01.	Location of Sampling	----	Nr. Main Security Gate
02.	Date of sampling	----	21/02/2023
03.	Time of sampling	Hrs.	08:40
04.	Duration of Sampling	Min.	1440.00
05.	Dominant Wind Direction (From)	----	SW
06.	Wind Speed	Km./Hrs.	2 TO 16
07.	Average flow rate during sampling	m3/minutes	1.20
08.	Average flow rate for Gas sampling	LPM	0.2
09.	Permissible Limits of PM 10 *	$\mu\text{g}/\text{m}^3$	100
10.	Measured Concentration of PM 10	$\mu\text{g}/\text{m}^3$	48
11.	Permissible Limits of PM 2.5*	$\mu\text{g}/\text{m}^3$	60
12.	Measured Concentration of PM 2.5	$\mu\text{g}/\text{m}^3$	34
13.	Permissible Limits of SO ₂ *	$\mu\text{g}/\text{m}^3$	80
14.	Measured Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	18.2
15.	Permissible Limits of NO ₂ *	$\mu\text{g}/\text{m}^3$	80
16.	Measured Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	24.9

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 26/12/2022

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



Royal Environment Auditing & Consultancy Service

Ashish
Analyst



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Environment Auditing & Consultancy Service

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Ref. No. : 90006/02/2022-23

Date: 01/03/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

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

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 3	Location No. 4	Location No. 2
01.	Location of Sampling	----	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE	Weight Bridge Security Point
02.	Date of sampling	----	22/02/2023	21/02/2023	22/02/2023
03.	Time of sampling	Hrs.	8:20	9:10	09:20
04.	Duration of Sampling	Min.	1440.00	1440.00	1440.00
05.	Dominant Wind Direction (From)	----	SW	SW	SW
06.	Wind Speed	Km./Hrs.	2 TO 16	1 To 18	1 To 14
07.	Average flow rate during sampling	m3/minutes	1.10	1.10	1.20
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2
09.	Permissible Limits of PM 10*	µg/m ³	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	43	49	50
11.	Permissible Limits of PM 2.5*	µg/m ³	60	60	60
12.	Measured Concentration of PM 2.5	µg/m ³	24	29	33
13.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80
14.	Measured Concentration of SO ₂	µg/m ³	16.3	16	18
15.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80
16.	Measured Concentration of NO ₂	µg/m ³	25.6	23.0	21.0

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 26/12/2022

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

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Ref. No. : 90008/02/2022-23

Date: 01/03/2023

AMBIENT NOISE LEVEL MEASUREMENT

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

Date of Sampling : 21th February 2023

Readings Taken by : Royal Environment

Sr. No.	Location of Sampling	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
	Permissible Limits	75.0	70.0
01.	Nr. Main Security Gate	63.0	55.0
02.	Nr. DRI Workshop area	65.0	56.0
03.	Nr. Weigh Bridge - Security Point	68.0	51.0
04.	Nr. SMS Triangle Garden	61.0	58.0
05.	Nr. CPP Plant - Coal Shed Corner	73.0	63.0
06.	Nr. West Security Gate	66	59.0

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 : Lutron Make Sound level meter, Model No. IL- 006719

Calibration done on: 04/03/2022



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Ref. No. : 90009/02/2022-23

Date: 01/03/2023

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sampling : 21th February 2023

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Results in dB(A)
Permissible Limits for 8:00 Hrs.		90.0
DRI Plant		
01	Nr. WorkShop	76.9
02	Between Kiln 1 & 2 (Platform)	80.2
03	Nr. Pump House - DRI	76.3
04	Nr. RMHS	72.9
CPP Plant		
05	Nr. FBC Boiler (CPP)	88.9
06	Nr. TG Building	78.6
07	Nr. Work Shop	75.2
08	Inside Control Room	77.4
SMS Plant		
09	Nr. Furnace Platform Area	76.3
10	Nr. CCM Area	75.5
11	Nr. MECH. Workshop	80.2
12	Nr. Pump House Area	81.3
RM Plant**		
13	Nr. Roughing Section	75.3
14	Nr. Electrical Room	71.1
15	Nr. MECH. WORK	83.6
16	Nr. Cooling Bed Area	79.8

Instruments used : Lutron Make Sound level meter, Model No. SL- 4030

Calibration done on: 04/03/2022

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Ref. No. : 90010/02/2022-23

Date: 01/03/2023

ILLUMINATION LEVEL MEASUREMENT

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

Date of Sampling : 21th February 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
01	Inside Office Building-ADM	200	360	280
02	Inside Control Room - DRI	300	385	355
03	Inside the Canteen	200	365	350
04	QC Lab - DRI Plant	300	360	340
05	Inside Control Room - CPP	300	380	345
06	QC Lab - SMS Plant	300	370	335

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

Calibration done on: 04/03/2022

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Ref. No. : 90011/02/2022-23

Date: 01/03/2023

ANALYSIS RESULT OF FUGITIVE EMISSION

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

Date of Sampling : 21th February 2023

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Permissible Limit**			2000
01	Raw Material Handling Area	Screen Area	956
02		Transfer Point	1009
03	Crusher Area	Crushing Point	898
04		Transfer Point	1565
05	Raw Material Feed Area	Feeder Area	846
06		Mixing Area	906
07	Cooler discharge Area	Transfer Point	866
08	Product processing Area	Product Separation Area	1230
09		Bagging Area	909
10		Intermediate Stock bin area	1356

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. : 90012/02/2022-23

Date: 01/03/2023

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 : 22/02/2023

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	156
03	Total Hardness (As CaCO ₃)	mg/l	200	600	58.0
04	Calcium (as Ca)	mg/l	75	200	21.0
05	Magnesium (as Mg)	mg/l	30	100	1.4
06	Chlorides	mg/l	250	1000	42.0
07	Sulphates	mg/l	200	400	18.0
08	Total Alkalinity	mg/l	200	600	43
09	Nitrates	mg/l	45	No relaxation	3.0
10	Flouride	mg/l	1.0	1.5	0.09

(*) 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. : 90013/02/2022-23

Date: 01/03/2023

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 : 22/02/2023

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	8.10
02	Total Dissolved Solids	mg/l	500	2000	104
03	Total Hardness (As CaCO ₃)	mg/l	200	600	42
04	Calcium (as Ca)	mg/l	75	200	6.3
05	Magnesium (as Mg)	mg/l	30	100	6.4
06	Chlorides	mg/l	250	1000	28.0
07	Sulphates	mg/l	200	400	11.3
08	Total Alkalinity	mg/l	200	600	45
09	Nitrates	mg/l	45	No relaxation	3.6
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. : 90014/02/2022-23

Date: 01/03/2023

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 : 22/02/2023

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	6.90
02	Total Dissolved Solids	mg/l	500	2000	146
03	Total Hardness (As CaCO ₃)	mg/l	200	600	65
04	Calcium (as Ca)	mg/l	75	200	6.7
05	Magnesium (as Mg)	mg/l	30	100	11.7
06	Chlorides	mg/l	250	1000	36.0
07	Sulphates	mg/l	200	400	9.0
08	Total Alkalinity	mg/l	200	600	54
09	Nitrates	mg/l	45	No relaxation	7.0
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. : 90015/02/2022-23

Date: 01/03/2023

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 : 22/02/2023

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	7.30
02	Total Dissolved Solids	mg/l	500	2000	165
03	Total Hardness (As CaCO ₃)	mg/l	200	600	44
04	Calcium (as Ca)	mg/l	75	200	8.0
05	Magnesium (as Mg)	mg/l	30	100	5.8
06	Chlorides	mg/l	250	1000	36
07	Sulphates	mg/l	200	400	8.6
08	Total Alkalinity	mg/l	200	600	60
09	Nitrates	mg/l	45	No relaxation	3.2
10	Flouride	mg/l	1.0	1.5	0.07

(*) 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. : 90016/02/2022-23

Date: 01/02/2023

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH FEBRUARY - 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	06	07	08
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	02/02/23 08:30	03/02/23 08:40	09/02/23 09:10	10/02/23 09:20	16/02/23 08:40	17/02/23 08:50	23/02/23 09:20	24/02/23 09:30
03.	Date & Time - Ending of Monitoring	---	03/02/23 08:30	04/02/23 08:40	10/02/23 09:10	11/02/23 09:20	17/02/23 08:40	18/02/23 08:50	24/02/23 09:20	25/02/23 09:30
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	SE	NE	SW	SE	SE	SW	NW
06.	Wind Speed Velocity	Km/Hr.	3 To 13	2 To 16	3 To 17	1 To 15	2 To 21	4 To 21	3 To 18	2 To 14
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.	1.10	1.10	1.20	1.20	1.10	1.20	1.10	1.10
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	26	30	24	22	26	25	21	28
12.	Permissible Limits of PM10 *	µg/m3	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m3	47	39	56	51	40	43	41	45
14.	Permissible Limits of SO2 *	µg/m3	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO2	µg/m3	16.0	13.6	14.2	11.9	11.6	19.8	17.5	16.3
16.	Permissible Limits of NO2 *	µg/m3	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO2	µg/m3	11.9	14.8	26.9	17.6	25.4	26.4	21.3	22.6

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



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Ref. No. : 90017/02/2022-23

Date: 01/03/2023

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 : 22/02/2023

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	6.3	8.00
02	Temperature	°C	40	35	31
03	Color	pt.co.	100	70	29
04	Total Dissolved Solids	mg/l	2100	1466	1032
05	Suspended Solids	mg/l	100	56	19
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	189	16.0
08	COD	mg/l	100	298	42.0
09	Chlorides	mg/l	600	456	284
10	Sulphates	mg/l	1000	298	84
11	Phenolic Compound	mg/l	2.0	2.4	N.D.
12	Amonical Nitrogen	mg/l	50	26	6
13	Sodium Absorption Ratio	%	26	28	20.0
14	Total Chromium (As Cr)	mg/l	0.2	0.80	0.03
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.07	0.07
16	Total Copper (As Cu)	mg/l	1.0	0.08	0.04
17	Total Iron (As Fe)	mg/l	1.0	0.6	0.08
18	Zinc (As Zn)	mg/l	1.0	0.80	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 : 21th February 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)	Refrence 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 - 1.8	1.55	10	Gravimetric	5	---	Ashish	MR. PATAT ASHISH
2	DRI PLANT-Mech Work Shop	Total Dust		2	2.3 - 1.6	1.95	10		3	---		
3	Power Plant - AFBC Area	Total Dust		2	2.3 - 1.4	1.85	10		2	---		
4	SMS - ET Furnace Platform	Total Dust		2	2.0 - 2.9	2.45	10		5	---		
5	SMS - IT Furnace Platform	Total Dust		2	2.1 - 1.4	1.75	10		4	---		

** 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



Ashish
Authorized Sign



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Ref. No. : 100002/03/2022-23

Date: 30/03/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 6	Stack No. 7	Stack No. 8	Stack No. 9
01	Stack Attached to	---	Iron Ore Crusher Screen House	Coal Crusher Screen House	Stock House- 1	Stock House-2
02	Date of Sampling	---	16/03/2023	17/03/2023	17/03/2023	17/03/2023
03	Time of Sampling	---	11:30	09:50	10:40	11:30
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	17	17	17	17
06	Stack Temperature	°C	68	70	67	69
07	Ambient Temperature	°C	23	21	22	22
08	Average Velocity of Flue Gases	M/Sec.	7.4	6.8	7.2	7
09	Isokinetic flow rate for P.M. Sampling	LPM	22	20	21	20
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	50	52	58	54

Instrument Used : Stack Monitoring Kit - Ecotech (ESS I00)

* Permissible limits as per GPCB CC&A.

Calibration Done On : 26/12/2022

Royal Environment Auditing & Consultancy Service



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Ref. No. : 100001/03/2022-23

Date: 30/03/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 5
01	Stack Attached to	---	Kiln Exit 1 & 2	Kiln Exit 3 & 4	Boiler of CPP - 30 TPH	D. G. Set
02	Date of sampling	---	16/03/2023	16/03/2023	--	16/03/2023
03	Time of Sampling	---	09:30	10:20	--	10:50
04	Air Pollution Control Measures	---	Dust Settling Chamber, Bag Filter ESP	ESP with each Kiln	ESP & Wet Scrubber	--
05	Stack Height	Meter	30	30	30	30
06	Stack Temperature	°C	123	122	Not	109
07	Ambient Temperature	°C	21	22	Running	22
08	Average Velocity of Flue Gases	M/Sec.	7.4	7.6	During	7.7
09	Isokinetic flow rate for P.M. Sampling	LPM	22	21	Visit	20
10	Gaseous Sampling Flow Rate	LPM	2.0	2.0	---	2.0
11	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	150
12	Measured Concentration of P.M.	mg/Nm ³	54	53	---	51
13	Permissible Limit for SO ₂ *	ppm	100	100	100	100
14	Measured Concentration of SO ₂	ppm	23	21	--	24
15	Permissible Limit for Nox*	ppm	50	50	50	50
16	Measured Concentration of Nox	ppm	21	20	---	30.0

Instrument Used :Stack Monitoring Kit - Ecotech (ESS 100)
Calibration Done On . : 26/12/2022

* Permissible limits as per GPCB CC&A.

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Ref. No. : 100003/03/2022-23

Date: 30/03/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/3

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Stack No. 10	Stack No. 11	Stack No. 12	Stack No. 13	Stack No. 14
01	Stack Attached to	---	Coal Injector-1	Coal Injector-2	Intermediate Bin	Raw Material Junction House	Production Separation
02	Date of Sampling	---	17/03/2023	17/03/2023	17/03/2023	17/03/2023	17/03/2023
03	Time of Sampling	---	12:20	14:00	14:50	15:30	16:10
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	12	12	22	20	15
06	Stack Temperature	°C	68	65	67	66	69
07	Ambient Temperature	°C	24	25	25	23	23
08	Average Velocity of Flue Gases	M/Sec.	7.4	6.9	7.1	7	6.8
09	Isokinetic flow rate for P.M. Sampling	LPM	20	21	19	22	20
10	Permissible Limit for P.M.*	mg/Nm ³	100	100	100	100	100
11	Measured Concentration of P.M.	mg/Nm ³	56	51	50	52	53

Instrument Used : Stack Monitoring Kit - Ecotech (ESS 100)

* Permissible limits as per GPCB CC&A.

Calibration Done On : 26/12/2022

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Ref. No. : 100004/03/2022-23

Date: 30/03/2023

REPORT OF STACK EMISSION ANALYSIS

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

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 15	Stack No.16
01	Stack Attached to	---	ET Furnace - SMS	IT Furnace - SMS
02	Date of sampling	---	16/03/2023	16/03/2023
03	Time of Sampling	---	14:00	14:50
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack Height	Meter	---	--
06	Stack Temperature	°C	114	118
07	Ambient Temperature	°C	24	24
08	Average Velocity of Flue Gases	M/Sec.	7.3	6.9
09	Isokinetic flow rate for P.M. Sampling	LPM	20	21
10	Permissible Limit for P.M.*	mg/Nm ³	100	100
11	Measured Concentration of P.M.	mg/Nm ³	49	47
12	Permissible Limit for Sox*	ppm	40	40
13	Measured Concentration of SOx	ppm	5.6	5.1
14	Permissible Limit for Nox*	ppm	25	25
15	Measured Concentration of Nox	ppm	13	14

* Permissible limits as per GPCB CC&A.

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Ref. No. : 100005/03/2022-23

Date: 30/03/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : Welspun Corp Ltd. - Steel Division

Welspun City, Survey No. 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch-370110.

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 1
01.	Location of Sampling	----	Nr. Main Security Gate
02.	Date of sampling	----	17/03/2023
03.	Time of sampling	Hrs.	09:10
04.	Duration of Sampling	Min.	1440.00
05.	Dominant Wind Direction (From)	---	SE
06.	Wind Speed	Km./Hrs.	1 to 16
07.	Average flow rate during sampling	m ³ /minutes	1.10
08.	Average flow rate for Gas sampling	LPM	0.2
09.	Permissible Limits of PM 10 *	µg/m ³	100
10.	Measured Concentration of PM 10	µg/m ³	52
11.	Permissible Limits of PM 2.5*	µg/m ³	60
12.	Measured Concentration of PM 2.5	µg/m ³	37
13.	Permissible Limits of SO ₂ *	µg/m ³	80
14.	Measured Concentration of SO ₂	µg/m ³	19.2
15.	Permissible Limits of NO ₂ *	µg/m ³	80
16.	Measured Concentration of NO ₂	µg/m ³	25.4

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 26/12/2022

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

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Ref. No. : 100006/03/2022-23

Date: 30/03/2023

REPORT OF AMBIENT AIR QUALITY MONITORING

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

Test Method : As per IS Standards - 5182_2/4/6

Sample Collected by : Royal Environment

Sr. No.	Particulars	Unit	Location No. 3	Location No. 4	Location No. 2
01.	Location of Sampling	---	Nr. SMS, TRIANGLE GARDEN	Nr. WEST SECURITY GATE	Weight Bridge Security Point
02.	Date of sampling	---	16/03/2023	17/03/2023	16/03/2023
03.	Time of sampling	Hrs.	09:00	9:10	09:10
04.	Duration of Sampling	Min.	1440.00	1440.00	1440.00
05.	Dominant Wind Direction (From)	---	SE	SE	SE
06.	Wind Speed	Km./Hrs.	3 to 12	1 to 17	2 to 20
07.	Average flow rate during sampling	m ³ /minutes	1.20	1.20	1.10
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2
09.	Permissible Limits of PM 10*	µg/m ³	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	45	50	52
11.	Permissible Limits of PM 2.5*	µg/m ³	60	60	60
12.	Measured Concentration of PM 2.5	µg/m ³	25	30	35
13.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80
14.	Measured Concentration of SO ₂	µg/m ³	17.0	16.7	17.9
15.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80
16.	Measured Concentration of NO ₂	µg/m ³	26.0	24.5	23.7

Instrument used : Ecotech RDS AAS 217BL , Gaseous Sampling Kit AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done On. : 26/12/2022

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

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Ref. No. : 100008/03/2022-23

Date: 30/03/2023

AMBIENT NOISE LEVEL MEASUREMENT

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

Date of Sampling : 17th MARCH 2023

Readings Taken by : Royal Environment

Sr. No.	Location of Sampling	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
	Permissible Limits	75.0	70.0
01.	Nr. Main Security Gate	65.0	56.0
02.	Nr. DRI Workshop area	66.0	57.0
03.	Nr. Weigh Bridge - Security Point	69.0	61.0
04.	Nr. SMS Triangle Garden	63.0	58.0
05.	Nr. CPP Plant - Coal Shed Corner	74.0	66.0
06.	Nr. West Security Gate	67	59.0

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 : Lutron Make Sound level meter, Model No. IL- 006719

Calibration done on: 04/03/2022

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Ref. No. : 100009/03/2022-23

Date: 30/03/2023

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Welspun Corp Ltd - Steel Division

Welspun City, Survey No 650,

Village: Versamedi, Taluka: Anjar,

Dist.: Kutch- 370110.

Date of Sampling : 17th MARCH 2023

Readings Taken by : Royal Environment

Sr.No.	Location of Sampling	Results in dB(A)
Permissible Limits for 8:00 Hrs.		90.0
DRI Plant		
01	Nr. WorkShop	77.0
02	Between Kiln 1 & 2 (Platform)	79.0
03	Nr. Pump House - DRI	78
04	Nr. RMHS	74.0
CPP Plant		
05	Nr. FBC Boiler (CPP)	89.0
06	Nr. TG Building	79.0
07	Nr. Work Shop	76.0
08	Inside Control Room	78.0
SMS Plant		
09	Nr. Furnace Platform Area	77.0
10	Nr. CCM Area	76.0
11	Nr. MECH. Workshop	81.0
12	Nr. Pump House Area	82.0
RM Plant**		
13	Nr. Roughing Section	76.1
14	Nr. Electrical Room	73.4
15	Nr. MECH. WORK	84.2
16	Nr. Cooling Bed Area	80.0

Instruments used : Lutron Make Sound level meter, Model No. SL- 4030

Calibration done on: 04/03/2022

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Ref. No. : 100010/03/2022-23

Date: 30/03/2023

ILLUMINATION LEVEL MEASUREMENT

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

Date of Sampling : 17th MARCH 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
01	Inside Office Building-ADM	200	370	285
02	Inside Control Room - DRI	300	390	360
03	Inside the Canteen	200	370	355
04	QC Lab - DRI Plant	300	365	345
05	Inside Control Room - CPP	300	375	350
06	QC Lab - SMS Plant	300	380	340

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

Calibration done on: 04/03/2022

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Ref. No. : 100011/03/2022-23

Date: 30/03/2023

ANALYSIS RESULT OF FUGITIVE EMISSION

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

Date of Sampling : 17th MARCH 2023

Sample Collected by : Royal Environment

Sr. No.	Area	Monitoring Location	SPM Level ($\mu\text{g}/\text{Nm}^3$)
Permissible Limit**			2000
01	Raw Material Handling Area	Screen Area	949
02		Transfer Point	1110
03	Crusher Area	Crushing Point	885
04		Transfer Point	1490
05	Raw Material Feed Area	Feeder Area	835
06		Mixing Area	920
07	Cooler discharge Area	Transfer Point	870
08	Product processing Area	Product Separation Area	1190
09		Bagging Area	1000
10		Intermediate Stock bin area	1290

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. : 100012/03/2022-23

Date: 30/03/2023

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 : 18/03/2023

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	7.30
02	Total Dissolved Solids	mg/l	500	2000	145
03	Total Hardness (As CaCO ₃)	mg/l	200	600	54.0
04	Calcium (as Ca)	mg/l	75	200	21.0
05	Magnesium (as Mg)	mg/l	30	100	0.4
06	Chlorides	mg/l	250	1000	40.0
07	Sulphates	mg/l	200	400	20.0
08	Total Alkalinity	mg/l	200	600	45
09	Nitrates	mg/l	45	No relaxation	4.0
10	Flouride	mg/l	1.0	1.5	0.08

(*) 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. : 100013/03/2022-23

Date: 30/03/2023

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 : 18/03/2023

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	7.80
02	Total Dissolved Solids	mg/l	500	2000	110
03	Total Hardness (As CaCO ₃)	mg/l	200	600	46
04	Calcium (as Ca)	mg/l	75	200	6.6
05	Magnesium (as Mg)	mg/l	30	100	7.2
06	Chlorides	mg/l	250	1000	30.0
07	Sulphates	mg/l	200	400	12.0
08	Total Alkalinity	mg/l	200	600	43
09	Nitrates	mg/l	45	No relaxation	4.1
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. : 100014/03/2022-23

Date: 30/03/2023

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 : 18/03/2023

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	7.20
02	Total Dissolved Solids	mg/l	500	2000	138
03	Total Hardness (As CaCO ₃)	mg/l	200	600	68
04	Calcium (as Ca)	mg/l	75	200	7.0
05	Magnesium (as Mg)	mg/l	30	100	12.3
06	Chlorides	mg/l	250	1000	39.0
07	Sulphates	mg/l	200	400	8.7
08	Total Alkalinity	mg/l	200	600	56
09	Nitrates	mg/l	45	No relaxation	6.9
10	Flouride	mg/l	1.0	1.5	0.07

(*) 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. : 100015/03/2022-23

Date: 30/03/2023

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 : 18/03/2023

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	7.40
02	Total Dissolved Solids	mg/l	500	2000	160
03	Total Hardness (As CaCO ₃)	mg/l	200	600	49
04	Calcium (as Ca)	mg/l	75	200	7.7
05	Magnesium (as Mg)	mg/l	30	100	7.2
06	Chlorides	mg/l	250	1000	39
07	Sulphates	mg/l	200	400	7.8
08	Total Alkalinity	mg/l	200	600	58
09	Nitrates	mg/l	45	No relaxation	3.6
10	Flouride	mg/l	1.0	1.5	0.08

(*) 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. : 100016/03/2022-23

Date: 30/03/2023

DETAILED RESULTS OF NATIONAL AMBIENT AIR QUALITY MONITORING OF THE MONTH MARCH - 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	---	02/03/23 09:00	03/03/23 09:10	09/03/23 08:50	10/02/23 09:00	16/03/23 08:30	17/03/23 08:40	23/03/23 09:30	24/03/23 09:40	30/03/23 09:00	31/03/23 09:10
03.	Date & Time - Ending of Monitoring	---	03/03/23 09:00	04/03/23 09:10	10/02/23 08.50	11/02/23 09:00	17/03/23 08:30	18/03/23 08:40	24/03/23 09:30	25/03/23 09:40	31/03/23 09:00	01/04/23 09:10
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NW	SW	NW	SE	SW	SW	SE	SW	SE	NE
06.	Wind Speed Velocity	Km/Hr.	2 to 20	1 to 17	3 to 18	1 to 16	2 to 20	3 to 12	1 to 18	2 to 16	1 to 14	2 to 12
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.	1.20	1.20	1.10	1.10	1.20	1.10	1.20	1.10	1.20	1.10
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	29	31	28	25	24	27	24	23	22	30
12.	Permissible Limits of PM10 *	µg/m3	100	100	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m3	50	42	59	54	41	48	42	45	46	47
14.	Permissible Limits of SO2 *	µg/m3	80	80	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO2	µg/m3	15.8	14.8	15.1	13.4	12.8	18.9	13.6	17.7	16.8	17.3
16.	Permissible Limits of NO2 *	µg/m3	80	80	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO2	µg/m3	13.8	12.7	24.4	18.0	24.1	25.5	23.9	27.7	23.0	21

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



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

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. : 100017/03/2022-23

Date: 30/03/2023

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 : 18/03/2023

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	6.9	7.80
02	Temperature	°C	40	39	32
03	Color	pt.co.	100	72	30
04	Total Dissolved Solids	mg/l	2100	1390	1010
05	Suspended Solids	mg/l	100	53	20
06	Oil & Grease	mg/l	10	N.D.	N.D.
07	BOD (3 Days @ 27°C)	mg/l	30	180	18.0
08	COD	mg/l	100	278	45.0
09	Chlorides	mg/l	600	445	280
10	Sulphates	mg/l	1000	285	79
11	Phenolic Compound	mg/l	2.0	2.7	N.D.
12	Amonical Nitrogen	mg/l	50	24	7
13	Sodium Absorption Ratio	%	26	30	19.0
14	Total Chromium (As Cr)	mg/l	0.2	0.78	0.04
15	Hexavalent Chromium (As Cr ⁺⁶)	mg/l	0.1	0.05	0.06
16	Total Copper (As Cu)	mg/l	1.0	0.07	0.05
17	Total Iron (As Fe)	mg/l	1.0	0.5	0.07
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.	96%

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

Royal Environment Auditing & Consultancy Service



Chandhi
Analyst

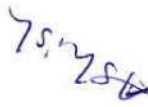
Form No. 37 WORK PLACE MONITORING REPORT

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 : 17th MARCH 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	1.6-1.4	1.50	10	Gravimetric	4	---		Mr. PATAT ASHISH
2	DRI PLANT-Mech Work Shop	Total Dust		2	2.0-1.8	1.90	10		2	---		
3	Power Plant - AFBC Area	Total Dust		2	2.5-1.7	2.10	10		3	---		
4	SMS - ET Furnace Platform	Total Dust		2	2.3-3.0	2.65	10		4	---		
5	SMS - IT Furnace Platform	Total Dust		2	1.9-1.7	1.80	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