JSW Cement Limited

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Bandra (East), Mumbai - 400 051

CIN. : U26957MH2006PLC160839
Phone : +91 22 4286 1000
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Website : www.jsw.in

Ref.: JSWCL/3B2 Min/Nagaur/Form-V/2025-26. Date: 04/09/2025

To
The Regional Officer,
Rajasthan State Pollution Control Board,
B.R. Mirdha College Road, Opposite Police Line,
Nagaur-341001 (Rajasthan).

Sub: Submission of **Environmental Statement Report in "Form-V" (FY 2024-25)** of 3B2 Lime stone mine of M/s. JSW Cement Limited, located at Village - Sarasani, Tehsil - Nagaur, District - Nagaur, Rajasthan., Under Environment Protection Rules, 1986

Ref: CTO Order No: 2024-2025/Mines /11163 dated 05/11/2024 granted by RSPCB.

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Dear Sir,

With reference to the aforesaid subject and reference above, we are here by submitting the "Environmental Statement Report" for the year 2024-25 of 3B2 Limestone mine of M/s.JSW Cement Limited, located at Village - Sarasani, Tehsil - Nagaur, District - Nagaur, Rajasthan

We hope the compliance is in order and acknowledge receipt of the same.

Thanking you,
Yours Faithfully,

For, M/s. JSW Cement Limited,
(Arvind Kumar Sharma)

AVP-Environment & Authorized Signatory
Encl.: As above

Cc: 1. The Member Secretary, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, JAIPUR-302004 (Rajasthan)

JINDAL Part of O. P. Jindal Group

FORM-V

See Rule-14

Environmental Statement for the financial year ending with 31st March 2025

PART – A

1.	Name and address of the owner/ occupier of the industry operation or process	:	Sh. Nilesh Narwekar 3B2 Limestone Mine (01/2018) (ML. Area: 470.00 Ha.) JSW Cement Limited, Village- Sarasani, Tehsil & District -Nagaur, Rajasthan, 341022
2.	Industry category Primary STC Code: Secondary STC Code:	:	Red (Limestone Mining)
3.	Production capacity	:	Limestone - 3.8 MTPA
4.	Year of establishment	:	12.04.2023
5.	Date of the last environmental statement submitted	:	This is First Environmental Statement as the mines is being operated from March 2025

PART – B
WATER AND RAW MATERIAL CONSUMPTION

1. Water Consumption (m^3/day)

i.	Process (crusher)	:	Nil (Crusher is under construction)
ii.	Dust suppression	:	10
iii.	Greenbelt	:	4.16

Name of Products	Process Water Consumption per unit of product output During the financial Year 2024-25
i. Limestone	--

2. Raw Material Consumption

*Name of raw materials	Name of products	Consumption of raw material per unit of output During the financial Year 2024-25
i. Diesel	Limestone	0.294 Lit/MT

**Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.*

FORM-V

See Rule-14

Environmental Statement for the financial year ending with 31st March 2025

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF PRODUCT

(Parameters as specified in the consent issued)

Pollutants	Quantity of Pollutants Discharged (mass/day) (Kg/day)	Concentrations of Pollutants in Discharges (mass/volume) (mg/L)	Percentage of variation from prescribed standards with reasons
A. Water			
Effluent Water: There is no effluent generation from Mines**.**			
B. Air			
Presently no source emission from the mines.			
Production, Ambient Air Quality, Ambient Noise , Ground & Surface water quality monitoring reports are enclosed as Annexures-1,2,3,4 & 5			

PART - D
HAZARDOUS WASTE

As specified under

Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

Hazardous Waste	Total Quantity (Kg)
	During the financial Year 2024-25
A. From Process	Nil
B. From Pollution Control Facilities	Nil

PART - E
SOLID WASTES

Solid Waste	Total Quantity (MT)
	During the Previous financial Year 2024-25
A. From Process	
• **Top soil**	581.04
• **Over Burden**	30180.06
B. From Pollution Control Facilities	
i. PCEs Dust	100% will be recycled into process

FORM-V

See Rule-14

Environmental Statement for the financial year ending with 31st March 2025

PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Hazardous waste generated will be kept in a designated area, and it will be disposed of by a registered recyclers. No hazardous waste has been generated in the fiscal year 2024-25. Concerning solid waste, topsoil is utilized for planting, while overburden is stacked at specified locations within the mines.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

1. Drainage systems will be made all along the embankments of broken up area.
2. The rain water will be diverted and is collected into water recharging & harvesting pits, the water is being used for plant operations /dust suppression/ plantation purpose.
3. Retaining walls be constructed and drainages have been made to control soil erosion at overburden dump bottom
4. Mist water sprinkling system is being adopted at crusher to suppress dust emissions during unloading of limestone.

PART – H

Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- Green Belt development has been taken up in phased manner Greenbelt development is being carried out in a phased manner with local and native plant species. The total plantation covered under green cover is 3.0 ha with 3000 no's of saplings

PART – I

Any other particulars for improving the quality of the environment.

- Regular water spraying is being done on haulage road and near loading places for effective dust suppression and thick plantation in and around the mine is being done.
- Regular and proper maintenance of noise generating machinery including the transport vehicles is being done to maintain noise levels and air quality is being regularly monitored.
- personal protective equipment (PPEs) are being provided to all mine employees i.e. dust mask (respirator), ear plug & ear muff, eye goggle etc.

Annexure-1
Production Details

1.	Products Manufactured	FY 2024-25
Description of Product	**Consented Capacity**	**Production Quantity**
Lime stone	3.8 Million TPA	0.013757 Million TPA

Annexure-2
Ambient Air Quality Monitoring Data

April 2024 to March 2025

Parameters	Limits	Mines site	Sarasani Vill	Harima Vill	Bhadana Villa
PM10	100	73.16	62.32	64.44	67.17
PM2.5	60	31.82	30.11	26.86	28.61
SO_2	80	13.13	9.34	9.71	10.24
NO_X	80	19.11	15.76	18.56	17.84
Carbon Monoxide mg/m^3	02	0.50	0.35	0.34	0.36

Stack Attached to	Limits	PM Emissions April 2024 to March 25
Crusher	---	Crusher is under construction

All the values are expressed in µg/m^3 except mentioned.
BDL – Below Detectable Limits
ND – Non-Detectable

Annexure-3
Ambient Noise Monitoring Data

Ambient Monitored Location	Noise Levels in Leq dB(A)			
	Day Time		Night time	
	Monitored Value	Limits	Monitored Value	Limits
Mines site	63.3	75	55.1	70
Bhadana Vill	51.4	75	41.7	70
Sarasani Vill	51.8	75	40.8	70
Harima Vill	51.5	75	40.6	70

Annexure-4

Ground water Quality Monitoring Data

Parameter	UoM	GW1	GW2	GW3	Acceptable Limits	Permissible Limits
pH	-	7.30	6.90	6.78	6.5 to 8.5	NR
Colour	Hazen	BLQ	BLQ	BLQ	5	15
Turbidity	NTU	BLQ	BLQ	BLQ	1	5
Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Total Hardness as CaCO3	mg/l	71	130	427	200	600
Calcium as Ca	mg/l	12	21	73	75	200
Total Alkalinity as CaCO3	mg/l	88	123	546	200	600
Chloride as Cl	mg/l	28	31	930	250	1000
Cynaide as CN	mg/l	BLQ	BLQ	BLQ	0.05	NR
Magnesium as Mg	mg/l	10	19	59	30	100
Total dissolved solids	mg/l	199	248	2483	500	2000
Sulphate as SO4	mg/l	27	29	577	200	400
Fluoride as F	mg/l	5.90	4.49	18.95	1	1.5
Nitrate Nitrogen as NO3	mg/l	BLQ	BLQ	0.45	45	NR
Sodium as Na	mg/l	BLQ	BLQ	BLQ	-	-
Total Iron as Fe	mg/l	LOQ	LOQ	LOQ	0.30	NR
Aluminium (as Al)	mg/l	BLQ	BLQ	BLQ	0.03	0.2
Boron (as B)	mg/l	LOQ	LOQ	LOQ	0.5	1.0
Total Chromium as Cr	mg/l	BLQ	BLQ	BLQ	0.05	NR
Phenolic Compounds	mg/l	LOQ	LOQ	LOQ	0.01	0.02
Anionic Detergents	mg/l	BLQ	BLQ	BLQ	0.2	1.0
Zinc as Zn	mg/l	BLQ	BLQ	0.49	5	15
Copper as Cu	mg/l	BLQ	BLQ	BLQ	0.05	1.50
Manganese as Mn	mg/l	BLQ	BLQ	BLQ	0.10	0.30
Cadmium as cd	mg/l	BLQ	BLQ	BLQ	0.03	NR
Lead as Pb	mg/l	BLQ	BLQ	BLQ	0.01	NR
Selenium (as Se)	mg/l	BLQ	BLQ	BLQ	0.01	NR
Arsenic (as As)	mg/L	BLQ	BLQ	BLQ	0.01	NR
Mercury as Hg	mg/L	BLQ	BLQ	BLQ	0.001	NR
E-Coli (cfu/100ml)	cfu/100ml	Absent	Absent	Absent	Shall not be detectable in any 100 ml sample	-
Conductivity	µs/cm	335	375	4170	-	-
Total Suspended Solids	mg/l	BLQ	BLQ	BLQ	-	-
Ammonia (as N)	mg/l	BLQ	BLQ	BLQ	0.5	NR
Nickel as Ni	mg/l	BLQ	BLQ	BLQ	0.02	NR
Free Residual Chlorine	mg/l	BLQ	BLQ	BLQ	0.2	1
Sodium (as Na)	mg/l	8.3	12.6	245	-	-
Potassium as K	mg/l	BLQ	BLQ	BLQ	-	-
Mineral Oil	mg/l	BLQ	BLQ	BLQ	0.5	NR
Phosphate as P	mg/l	BLQ	BLQ	BLQ	-	-
Total Pesticides	mg/l	BLQ	BLQ	BLQ	Table no 5	NR
Hexavalent Chromium (as Cr+6)	mg/l	BLQ	BLQ	BLQ	-	-

*****Note: Drinking water standards of IS 10500:2012, GW1: Mines office area, GW2: Jindas Village and GW3: Bhadana, BLQ:Below limit of quantification and LOQ:Limit of Quantification.*

Parameter	UoM	GW4	GW5	Acceptable Limits	Permissible Limits
pH	-	7.32	7.05	6.5 to 8.5	NR
Colour	Hazen	BLQ	BLQ	5	15
Turbidity	NTU	BLQ	BLQ	1	5
Odour	-	Agreeable	Agreeable	Agreeable	Agreeable
Taste	-	Agreeable	Agreeable	Agreeable	Agreeable
Total Hardness as CaCO3	mg/l	1014	117	200	600
Calcium as Ca	mg/l	190	19	75	200
Total Alkalinity as CaCO3	mg/l	290	96	200	600
Chloride as Cl	mg/l	1178	39	250	1000
Cynaide as CN	mg/l	BLQ	BLQ	0.05	NR
Magnesium as Mg	mg/l	131	17	30	100
Total dissolved solids	mg/l	3201	243	500	2000
Sulphate as SO4	mg/l	337	44	200	400
Fluoride as F	mg/l	1.29	0.27	1	1.5
Nitrate Nitrogen as NO3	mg/l	6.42	5.97	45	NR
Sodium as Na	mg/l	0.13	0.23	-	-
Total Iron as Fe	mg/l	LOQ	LOQ	0.30	NR
Aluminium (as Al)	mg/l	BLQ	BLQ	0.03	0.2
Boron (as B)	mg/l	BLQ	BLQ	0.5	1.0
Total Chromium as Cr	mg/l	BLQ	BLQ	0.05	NR
Phenolic Compounds	mg/l	BLQ	BLQ	0.01	0.02
Anionic Detergents	mg/l	0.29	0.23	0.2	1.0
Zinc as Zn	mg/l	BLQ	BLQ	5	15
Copper as Cu	mg/l	BLQ	BLQ	0.05	1.50
Manganese as Mn	mg/l	BLQ	BLQ	0.10	0.30
Cadmium as cd	mg/l	BLQ	BLQ	0.03	NR
Lead as Pb	mg/l	BLQ	BLQ	0.01	NR
Selenium (as Se)	mg/l	BLQ	BLQ	0.01	NR
Arsenic (as As)	mg/L	BLQ	BLQ	0.01	NR
Mercury as Hg	mg/L	BLQ	BLQ	0.001	NR
E-Coli (cfu/100ml)	cfu/100ml	Absent	Absent	Shall not be detectable in any 100 ml sample	-
Conductivity	µs/cm	5029	359	-	-
Total Suspended Solids	mg/l	BLQ	BLQ	-	-
Ammonia (as N)	mg/l	BLQ	BLQ	0.5	NR
Nickel as Ni	mg/l	BLQ	BLQ	0.02	NR
Free Residual Chlorine	mg/l	BLQ	BLQ	0.2	1
Sodium (as Na)	mg/l	950	11.6	-	-
Potassium as K	mg/l	58	2	-	-
Mineral Oil	mg/l	BLQ	BLQ	0.5	NR
Phosphate as P	mg/l	BLQ	BLQ	-	-
Total Pesticides	mg/l	BLQ	BLQ	Table no 5	NR
Hexavalent Chromium (as Cr+6)	mg/l	BLQ	BLQ	-	-

*****Note: Drinking water standards of IS 10500:2012,GW5: Harima, GW6: Sarasani Village, BLQ:Below limit of quantification and LOQ:Limit of Quantification.*

Annexure-5

Surface Water Quality Monitoring Data

Parameter	UoM	SW1	SW2	SW3	Acceptable Limits	Permissible Limits
pH	-	8.33	7.18	7.29	6.5 to 8.5	NR
Colour	Hazen	BLQ	BLQ	BLQ	5	15
Turbidity	NTU	BLQ	BLQ	BLQ	1	5
Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Total Hardness as CaCO3	mg/l	58	115	318	200	600
Calcium as Ca	mg/l	12	33	45	75	200
Total Alkalinity as CaCO3	mg/l	75	133	471	200	600
Chloride as Cl	mg/l	46	58	440	250	1000
Cynaide as CN	mg/l	BLQ	BLQ	BLQ	0.05	NR
Magnesium as Mg	mg/l	6.90	7.75	49.90	30	100
Total dissolved solids	mg/l	175	413	1473	500	2000
Sulphate as SO4	mg/l	17	104	363	200	400
Fluoride as F	mg/l	0.30	0.13	1.99	1	1.5
Nitrate Nitrogen as NO3	mg/l	5.06	7.95	15.36	45	NR
Sodium as Na	mg/l	0.29	0.41	0.54	-	-
Total Iron as Fe	mg/l	LOQ	LOQ	LOQ	0.30	NR
Aluminium (as Al)	mg/l	BLQ	BLQ	BLQ	0.03	0.2
Boron (as B)	mg/l	BLQ	BLQ	BLQ	0.5	1.0
Total Chromium as Cr	mg/l	BLQ	BLQ	BLQ	0.05	NR
Phenolic Compounds	mg/l	BLQ	BLQ	BLQ	0.01	0.02
Anionic Detergents	mg/l	BLQ	BLQ	BLQ	0.2	1.0
Zinc as Zn	mg/l	BLQ	0.52	0.71	5	15
Copper as Cu	mg/l	BLQ	BLQ	BLQ	0.05	1.50
Manganese as Mn	mg/l	BLQ	BLQ	BLQ	0.10	0.30
Cadmium as cd	mg/l	BLQ	BLQ	BLQ	0.03	NR
Lead as Pb	mg/l	BLQ	BLQ	BLQ	0.01	NR
Selenium (as Se)	mg/l	BLQ	BLQ	BLQ	0.01	NR
Arsenic (as As)	mg/L	BLQ	BLQ	BLQ	0.01	NR
Mercury as Hg	mg/L	BLQ	BLQ	BLQ	0.001	NR
E-Coli (cfu/100ml)	cfu/100ml	Absent	Absent	Absent	Shall not be detectable in any 100 ml sample	-
Conductivity	µs/cm	262	618	2190	-	-
Total Suspended Solids	mg/l	BLQ	BLQ	BLQ	-	-
Ammonia (as N)	mg/l	BLQ	BLQ	BLQ	0.5	NR
Nickel as Ni	mg/l	BLQ	BLQ	BLQ	0.02	NR
Free Residual Chlorine	mg/l	BLQ	BLQ	BLQ	0.2	1
Sodium (as Na)	mg/l	16	39	118	-	-
Potassium as K	mg/l	2.4	5.1	7.8	-	-
Mineral Oil	mg/l	BLQ	BLQ	BLQ	0.5	NR
Phosphate as P	mg/l	BLQ	BLQ	BLQ	-	-
Total Pesticides	mg/l	BLQ	BLQ	BLQ	Table no 5	NR
Hexavalent Chromium (as Cr+6)	mg/l	BLQ	BLQ	BLQ	-	-

***Note: Drinking water standards of IS 10500:2012, SW1: Talab at Deh Village, SW2: Talab Near Bhadana Village and SW3: Talab Near Jathera village, BLQ: Below limit of quantification and LOQ:Limit of Quantification.