



DEVAPUR LIMESTONE MINE

P.O. Devapur Cement Works, Devapur Village, Kasipet Mandal, Mancherla Dist.
Telangana – 504218. Email: tsmdcltd.devapur@gmail.com

TSMDC/DLM/

Date: 24th September 2025

To,
Member Secretary,
Telangana Pollution Control Board,
Paryavaran Bhavan, A-3, Industrial Estate, Sanathnagar,
Hyderabad – 500018, Telangana.

Sub: Submission of FORM-V (Environmental Statement) under Rule No. 14 of Environment (Protection) Rules, 1986 and amendments thereof for the period of FY2024-25 for our Devapur Limestone Mine - Reg.

Ref: CFO & HWA Order No. 220823620495, Date 27.05.2022.

Dear Sir,

We are herewith submitting FORM-V (Environmental Statement) under Rule No. 14 of Environment (Protection) Rules, 1986 and amendments thereof for the period of FY2024-25 for our Devapur Limestone Mine of M/s Telangana Mineral Development Corporation Limited. located at Devapur (V), Kasipet (M), Mancherla District, Telangana.

This is for your kind information and record please.

Thanking you,

Yours faithfully
For Devapur Limestone Mine of TSMDC Limited.

K Rajasekhara Reddy
Mines Manager

Encl: A/a

CC: Environmental Engineer,
Telangana Pollution Control Board,
Regional Office,
H. No. 6-2-166/A, 1st Floor, Subhash Nagar,
Nizamabad - 503002, Telangana.

FORM – V
(Environmental Statement)
FY 2024-25



Devapur Limestone Mine
(Telangana Mineral Development Corporation Limited)
Devapur Village, Kasipet Mandal, Mancherla District, Telangana-504218

Devapur Limestone Mine
Telangana Mineral Development Corporation Limited
Devapur (V), Kasipet (M), Mancherial (Dist.), Telangana-504218

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PART – A

1. Name and address of the owner/ occupier of the industry operation or process.	: Sri. Bhavesh Mishra, IAS, Vice Chairman & Managing Director (FAC) TGMDC Ltd., Sri K. Rajasekhar Reddy General Manager, TGMDC Ltd, Agent cum Mines Manager Devapur Limestone Mine, Devapur (V), Kasipet (M), Mancherial (Dist.), Telangana – 504218.
2. Industry category	: Primary STC Code: NA Secondary STC Code: NA
3. Production capacity	: Limestone – 5.3 MTPA
4. Year of establishment	: 1981
5. Date of the last environmental statement submitted	: 03 rd September, 2024

PART – B

WATER AND RAW MATERIAL CONSUMPTION

1. Water Consumption (m³/day)		
i.	Process & Washings (Dust Suppression & Plantation)	: 91.5
ii.	Domestic	: 9.5

Name of Products	Process Water Consumption per unit of product output	
	During the previous financial Year 2023-24	During the current financial Year 2024-25
i. Limestone	9.39 Lit/MT	11.74 Lit/MT

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2. Raw Material Consumption - MT/MT of Product			
*Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous financial Year 2023-24	During the current financial Year 2024-25
i. HSD	Limestone	0.346 Lit/MT	0.346 Lit/MT
ii. Explosives	Limestone	0.094 Kg/MT	0.086 Kg/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.*

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF PRODUCT
(Parameters as specified in the consent issued)

Pollutants	Quantity of Pollutants Discharged (Kg/day)	Concentrations of Pollutants in Discharges (mg/L)	Percentage of variation from prescribed standards with reasons
A. Water			
Effluent Water: Workshop Wastewater & Battery Wastewater			
i. pH	--	7.6	Within the Limits
ii. Total Dissolved Solids	--	1112.9	-47.0
iii. Total Suspended Solids	--	34.6	-82.7
iv. Chemical Oxygen Demand	--	82.5	-67.0
v. Biochemical Oxygen Demand	--	19.4	-80.6
vi. Oil & Grease	--	0.4	-96.0
Pollutants	Quantity of Pollutants Discharged (Kg/day)	Concentrations of Pollutants in Discharges (mg/Nm³)	Percentage of variation from prescribed standards with reasons
B. Air			
i. Crusher Stack - PM	8.9	21.8	-27.22

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PART - D
HAZARDOUS WASTE

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

Hazardous Waste	Total Quantity, MT	
	During the previous financial Year 2023-24	During the current financial Year 2024-25
A. From Process		
i. Used Oil (5.1)	10800 Litres	10800 Litres
B. From Pollution Control Facilities	Nil	Nil

PART - E
SOLID WASTES

Solid Waste	Total Quantity, MT	
	During the previous financial Year 2023-24	During the current financial Year 2024-25
A. From Process (Topsoil Generation)	Nil	Nil
B. From Pollution Control Facilities	Nil	Nil
C.		
i. Quantity recycled or re-utilized within the unit	12141	2940
ii. Sold	NA	NA
iii. Disposed	12141	2940

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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.

Sl. No	Type of Wastes Generated / Handling	Nature of Waste	Disposal Pathway
1	Used Oil (5.1 of Schedule-I)	Hazardous	Authorized Re-processors / Recyclers
2	Lead Acid Batteries	Batteries	Authorized recycler & Buyback to vendors
3	Crusher Bag House Dust	Solid	Recycle back in to the process
4	Liquid Waste - Effluent	Effluent	Disposal on land for irrigation
5	Liquid Waste - Sewage	Sewage	Disposal on land for irrigation
6	Over Burden	Solid	Used for backfilling/reclamation
7	Topsoil	Solid	Used for greenbelt development
8	Low Grade Limestone	Solid	Recycle in to Cement Manufacturing

Sl. No	Type of Wastes Generated / Handling	Nature of Waste	Disposed Quantity, FY2024-25
1	Used Oil (5.1 of Schedule-I)	Hazardous	10800 Litres
2	Lead Acid Batteries	Batteries	Nil
3	Crusher Bag House Dust	Solid	100% Recycle
4	Over Burden	Solid	456672 m ³
5	Topsoil	Solid	Nil
6	Low Grade Limestone	Solid	2940 MT

PART – G

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

Low grade limestone and sub-grade limestone minerals are used in the manufacturing process thus conserving the natural resources. Reclamation of mined out area and development of water storage reservoirs is done to facilitate increase in water regime in mined out areas.

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PART – H

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

Adequate funds are earmarked for environmental management activities. Recurring expenditure incurred for the activities mentioned below is Rs. 94.54 Lakhs for period FY2024-25.

- Environmental Monitoring
- Greenbelt Development
- Dust Suppression
- Power consumption charges for pollution control equipment at crusher
- Environmental Protection Measures if any.

PART – I

Any other particulars for improving the quality of the environment.

- Forming pits, retaining tanks and bunds in the mining area, improve water resources. Water harvesting pits were dug in the adjoining area.
- For noise pollution control & ground vibration Non electric delay detonators are used. Greenbelt is developed along the boundary of mine area for reducing the impact of noise due to mining activity on the surrounding Environment.
- Regular water sprinkling is done at mine face and haulage roads to suppress dust.
- Conservation of resources is done as per the approved mining plan.
- In Devapur Limestone Mine, so far total planted of 47893 saplings was carried out covering an area of 34.488 ha. In the year 2024-25 as per mining plan we have planned to plant 3479 nos. of saplings in 2.012 ha area. Year wise plantation details:

Year	Area in Ha.	No's of Saplings
Up to 2023-24	34.488	47893
2024-25	2.014	3479
Total as on 31.03.2025	36.50	51372

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Annexures

Annexure-1
Ambient Air Quality Monitoring Data

Parameters	Limits	Near Loading Area	Near Unloading Area	Near Drilling Area	Near Haulage Road
PM10	100	64.7	70.4	68.4	60.1
PM2.5	60	24.1	28.0	26.4	20.4
SO ₂	80	10.3	10.7	8.5	12.0
NO ₂	80	21.8	22.5	19.1	24.0
Lead (Pb)	1.0	0.0	0.1	0.1	0.1
Carbon Monoxide mg/m ³	02	BDL	BDL	BDL	BDL
Ammonia (NH ₃)	400	BDL	BDL	BDL	BDL
Ozone (O ₃)	100	8.0	11.0	5.0	9.5
Benzene (C ₆ H ₆)	05	<0.02	<0.02	<0.02	<0.02
Arsenic (As) ng/m ³	06	ND	ND	ND	ND
Nickle (Ni) ng/m ³	20	ND	ND	ND	ND
Benzo Pyrene (Bap) ng/m ³	01	ND	ND	ND	ND

All the values are expressed in µg/m³, ND-Non-Detectable, BDL-Below Detectable Limits

Parameters	Limits	Devapur Village	Salpalavagu	Gatralpalli Village	Maddi-madugu Village
PM10	100	57.6	50.4	51.9	59.3
PM2.5	60	21.8	18.0	18.7	22.9
SO ₂	80	9.5	6.8	7.1	10.3
NO ₂	80	19.9	16.9	16.9	21.3
Lead (Pb)	1.0	0.1	0.0	0.1	0.1
Carbon Monoxide mg/m ³	02	BDL	BDL	BDL	BDL
Ammonia (NH ₃)	400	BDL	BDL	BDL	BDL
Ozone (O ₃)	100	6.5	3.0	3.0	7.5
Benzene (C ₆ H ₆)	05	<0.02	<0.02	<0.02	<0.02
Arsenic (As) ng/m ³	06	ND	ND	ND	ND
Nickle (Ni) ng/m ³	20	ND	ND	ND	ND
Benzo Pyrene (Bap) ng/m ³	01	ND	ND	ND	ND

All the values are expressed in µg/m³, ND-Non-Detectable, BDL-Below Detectable Limits

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Annexure-2
Ambient Noise Monitoring Data

Ambient Monitored Location	Noise Levels in Leq dB(A)			
	Day Time		Nighttime	
	Monitored Value	Limits	Monitored Value	Limits
1. Devapur Village	49.8	55	39.4	45
2. Maddimadugu Village	51.3	55	41.2	45
3. Core Zone (Near Temple)	63.7	75	58.3	70
4. Township (Om Store)	62.2	75	57.1	70
5. Gatralpalli (Near Govt. School)	48.5	55	39.3	45
6. Forest Land (Salphalavagu)	48.8	55	39.8	45

Annexure-3
Effluent Water Analysis Data

Battery Discharge Effluent Parameters	UoM	Limits	Average Measured Concentration
pH	--	6.5-8.5	7.4
Total dissolved solids	mg/l	2100	1364.2
Total Suspended solids	mg/l	200	47.5
Chemical oxygen demand	mg/l	250	120.4
Biochemical oxygen demand (3 Days at 27°C)	mg/l	100	25.4
Oil & Grease	mg/l	10	0.5

Vehicle Washing Oil Separator Effluent Parameters	UoM	Limits	Average Measured Concentration
pH	--	6.5-8.5	7.7
Total dissolved solids	mg/l	2100	861.6
Total Suspended solids	mg/l	200	21.7
Chemical oxygen demand	mg/l	250	44.6
Biochemical oxygen demand (3 Days at 27°C)	mg/l	100	13.4
Oil & Grease	mg/l	10	0.3

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Annexure-4
Ground Water & Surface Water Quality Analysis Data

Locations	1	2	3	4	5
Color (Hazen Units)	4.8	5.0	2.75	3.0	6.75
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity (NTU)	1.9	1.7	1.4	1.5	2.4
pH	7.5	7.5	7.5	7.4	7.5
E.C (micro mhos/cm)	595.0	741.5	882.0	711.3	716.5
Total dissolved solids	384.25	406.8	444.25	411.5	394.5
Total alkalinity as CaCO ₃	72.8	144.7	190.0	145.3	199.8
Phenolphthaleine alkalinity as CaCO ₃	<5.0	<5.0	Nil	<5.0	Nil
Methylorange alkalinity as CaCO ₃	72.8	169.7	190.0	145.3	199.8
Total hardness as CaCO ₃	209.3	206.2	163.0	154.8	110.0
Calcium as Ca	53.5	53.1	44.9	63.4	26.0
Magnesium as Mg	18.6	17.6	10.7	28.0	12.7
Sodium as Na	27.0	68.2	17.0	36.6	29.7
Potassium as K	1.2	2.2	0.5	1.3	1.0
Copper as Cu	0.0	0.1	0.0	0.1	0.2
Iron as Fe	0.2	0.2	0.2	0.2	0.2
Manganese as Mn	<0.01	0.04	0.0	0.0	0.1
Chlorides as Cl	96.4	102.2	27.9	62.4	50.3
Sulphates as SO ₄	89.4	37.2	23.8	47.5	40.1
Nitrates as NO ₃	6.3	14.0	11.7	17.8	17.8
Flourides as F	0.7	0.6	0.7	0.4	0.6
Phenolic compounds as C ₆ H ₅ OH	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury as Hg	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium as Cd	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium as Se	<0.001	<0.001	<0.001	<0.001	<0.001
Cyanide as CN	<0.001	<0.001	<0.001	<0.001	<0.001
Lead as Pb	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc as Zn	<0.001	<0.001	<0.001	<0.001	<0.001
Anionic Detergents as MBAS	Absent	Absent	Absent	Absent	Absent
Residual chlorine	Nil	Nil	0.1	<0.4	Nil
Pesticides	Absent	Absent	Absent	Absent	Absent
Silver as Ag	<0.001	<0.001	<0.001	<0.001	<0.001
Mineral Oil	<0.001	<0.001	<0.001	<0.001	<0.001
Hexavalent chromium as Cr+6	<0.001	<0.001	<0.001	<0.001	<0.001
Poly nuclear aromatic hydrocarbons as PAH	Absent	Absent	Absent	Absent	Absent

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Locations	6	7	8	9	10
Color (Hazen Units)	5.3	<1.0	7.8	Clear	4.0
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity (NTU)	2.7	<1.0	7.1	Nil	<1.0
pH	7.4	7.5	6.7	7.7	7.8
E.C (micro mhos/cm)	570.5	777.5	873.3	894.3	858.0
Total dissolved solids	341.3	465	524.0	546.5	512.75
Total alkalinity as CaCO ₃	145.3	168.8	149.6	192.2	190.5
Phenolphthalene alkalinity as CaCO ₃	<5.0	Nil	Nil	<5.0	<5.0
Methylorange alkalinity as CaCO ₃	145.3	168.8	149.6	192.2	190.5
Total hardness as CaCO ₃	223.5	157.7	169.3	178.1	196.8
Calcium as Ca	44.1	41.5	57.5	24.0	53.3
Magnesium as Mg	27.0	25.4	37.1	28.9	33.4
Sodium as Na	24.5	23.0	34.0	42.1	30.6
Potassium as K	3.0	2.8	3.9	1.6	3.8
Copper as Cu	0.0	0.1	<0.01	0.1	0.1
Iron as Fe	0.2	0.2	0.2	<0.10	0.2
Manganese as Mn	<0.01	<0.01	0.0	<0.001	<0.01
Chlorides as Cl	46.5	43.8	82.8	74.2	74.0
Sulphates as SO ₄	41.3	38.5	57.5	35.9	52.0
Nitrates as NO ₃	16.6	16.2	23.1	16.4	21.2
Flourides as F	0.6	0.7	0.8	0.77	0.73
Phenolic compounds as C ₆ H ₅ OH	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury as Hg	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium as Cd	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium as Se	<0.001	<0.001	<0.001	<0.001	<0.001
Cyanide as CN	<0.001	<0.001	<0.001	<0.001	<0.001
Lead as Pb	<0.001	<0.001	<0.001	<0.001	<0.001
Zine as Zn	0.14	<0.001	<0.001	<0.001	0.21
Anionic Detergents as MBAS	Absent	Absent	Absent	Absent	Absent
Residual chlorine	<0.04	<0.04	0.08	<1.0	<1.0
Pesticides	Absent	Absent	Absent	Absent	Absent
Silver as Ag	<0.001	<0.001	<0.001	<0.001	<0.001
Mineral Oil	<0.001	<0.001	<0.001	<0.001	<0.001
Hexavalent chromium as Cr+6	<0.001	<0.001	<0.001	<0.001	<0.001
Poly nuclear aromatic hydrocarbons as PAH	Absent	Absent	Absent	Absent	Absent
1. Borewell (Magazine), 2. Borewell (Maddimada Village), 3. Borewell Water (Devapur Village), 4. Bore well (Colony Road), 5. Mine Pit Water, 6. Borewell (Gatralapally), 7. Borewell (Rally Gadapur Village), 8. Devapur Vagu (Surface Water), 9. RallaVagu (Yapa Village) Surface Water, 10. Volli Vagu (Medaram Village) Surface Water.					

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Annexure-5
Soil Quality Analysis Data

Parameters	1	2	3	4
pH	7.6	7.6	7.4	7.7
Electrical Conductivity	341.5	421.3	438.8	475.5
Calcium as Ca	35.0	43.5	53.3	61.5
Magnesium as Mg	12.0	18.3	19.5	16.3
Sodium as Na	37.0	50.3	44.3	38.0
Potassium as K	56.8	89.5	190.8	147.5
Phosphorous as P	11.0	16.0	51.8	27.8
Nitrogen as N	165.8	216.0	345.3	310.8
Organic Carbon	0.2	0.4	0.5	0.4
Sulphates as SO ₄	0.3	0.5	0.2	0.1
Chlorides as Cl	0.6	0.8	0.3	0.3
Silt & Clay	51.5	50.0	58.3	58.8
Sand	46.0	50.0	42.8	42.3
Textural Class	Loamy sand	Silty clay	Silty Clay	Loam sand
Physical Appearance	Mixed soil	Black cotton soil	Black cotton Soil	Mixed soil

1. Maddimada, 2. Agriculture Land Devapur Village, 3. Agriculture Land Gatrapally, 4. Colony.

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Annexure-6
Greenbelt Development Details



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Annexure-7
Environmental Management Practices



Fixed Water Sprinklers



Muck Pile Wetting



Wet Drilling



Rubber Curtains at Crusher Dump Hopper



Water Sprinkling on Haul Road



Dust Suppression at Internal Roads

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Annexure-8

Activities under Corporate Social Responsibility

S. No	Description of CSR Activity	Details of Expenditure & work done during the reporting year	Amount in Lacs Rs
1	Supporting for drinking water & agriculture	RO Water supply to villagers; Water harvesting pits in nearby villages;	11.35
2	Support to Health & Medical Services	Regular medical check-up of mines employees. To conduct health check-up camps for villagers, expenses for sulabh shouchalaya, dispensary expenses	58.732
3	Support to Skill development & Education	Classes conducted for skill development and vocational training School running expenses, repairing & providing facilities to nearby govt. schools	226.890
4	Social & Livelihood Support	Community development of surrounding villages & recreation activities Donation to Vanavasi Kalyan Ashram	5.857 4.038
5	Support to Transportation Services & Infrastructure	Road repairs of surrounding villages, infrastructure development of gram panchayat office; transportation facility to school children & workers	122.334
6	Environmental Expenditure	Environmental Expenditure	94.53
			523.73


