

TELANGANA STATE MINERAL  
DEVELOPMENT CORPORATION  
LIMITED  
(A State Government Undertaking)  
An ISO 9001: 2015 Corporation



Devapur Limestone Mines  
P.O. Devapur Cement Works – 504  
218, Dist. Mancherial (T.S)  
Phone : 91-08736 – 240661,  
Fax : 91-8736 – 240522  
tsmdcltd.devapur@gmail.com

TSMDC/BVM/

Date: 4<sup>th</sup> May 2024

To,  
DR. G. TRINADH KUMAR, IFS  
Inspector General of Forests,  
Ministry of Environment, Forest, and Climate Change,  
Integrated Regional Office (IRO) - Hyderabad  
6<sup>th</sup> Floor, Aranya Bhawan, Opp. RBI,  
Saifabad – 500004, Hyderabad, Telangana.

Sub: Six monthly compliance status report of environmental clearance for Expansion of Devapur Limestone Mines (ML area 210 ha, enhancement of production from 3.0 to 5.3 MTPA) of Telangana State Mineral Development Corporation Limited at Devapur (V), Mancherial (Dist.,) Telangana State - Reg.

Ref: Environmental Clearance F. No. J -11015/234/2007-IA II (M) Dt: 16.10.2007.

Dear Sir,

Reference with the environmental clearance cited above, we are herewith submitting six monthly compliance status report for the period of October 2023 to March 2024 for our Expansion of Devapur Limestone Mines (ML area 210 ha, enhancement of production from 3.0 to 5.3 MTPA) of Telangana State Mineral Development Corporation Limited at Devapur (V), Mancherial (Dist.,) Telangana State.

This is for your kind information & record please.

Yours faithfully,

For Devapur Limestone Mine of TSMDC Ltd.,

  
Mines Manager

Copy:

1. The Regional Director, Central Pollution Control Board, Regional Directorate (South), Nisarga Bhawan, 1<sup>st</sup> Floor, 7<sup>th</sup> D Cross, Thimmaiah Road, Shivanagar, Bengaluru - 560079, Karnataka.
2. Environmental Engineer, Telangana State Pollution Control Board, Regional Office, H. No. 6-2-166/A, 1<sup>st</sup> Floor, Subhash Nagar, Nizamabad – 503002, Telangana.

Regd. & Corpt office : Rear Block, 3<sup>rd</sup> floor, HMWSSB Premises, Khairatabad, Hyderabad – 500 004.  
Phone : +91-040 - 23393814, 23323153; Fax : +91-40-23393152;  
E-Mail: [tsmdcltdmines@gmail.com](mailto:tsmdcltdmines@gmail.com)

Your (**Environment Clearance**) application has been **Submitted** with following details

<b>Proposal No</b>	APMDC/OC/2000-01/1638 dated 13.08.2007
<b>Compliance ID</b>	69030631
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/69030631/2024
<b>Reporting Year</b>	2024
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	18-05-2024
<b>IRO Name</b>	V Geroge Jenner
<b>IRO Email</b>	tr025@ifs.nic.in
<b>State</b>	TELANGANA
<b>IRO Office Address</b>	Integrated Regional Offices, Hyderabad

**Note:-** SMS and E-Mail has been sent to V Geroge Jenner, TELANGANA with Notification to Project Proponent.

**Half Yearly Compliance Report  
2024  
01 Jun(01 Oct - 31 Mar)**

**Acknowledgment**

<b>Proposal Name</b>	Expansion of Devapur Limestone Mines (ML area 210 ha, and enhancement of production from 3.0 MTPA to 5.3 MTPA) of Telangana State Mineral Development Corporation Limited at Village Devapur, Tehsil Kasipet in district Mancherial In Telangana State.		
<b>Name of Entity / Corporate Office</b>	Telangana State Mineral Development Corporation Limited		
<b>Village(s)</b>	N/A		
<b>District</b>	MANCHERIAL		
<b>Proposal No.</b>	APMDC/OC/2000-01/1638 dated 13.08.2007	<b>Category</b>	Non-Coal Mining
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	TELANGANA	<b>Entity's PAN</b>	NA
<b>MoEF File No.</b>	J-11015/234/2007-IA.II(M)	<b>Entity name as per PAN</b>	NA

**Compliance Reporting Details**

<b>Reporting Year</b>	2024
<b>Remarks (if any)</b>	Project: Limestone Mine. Existing in nature, Operational in status.
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

**Name of Entity / Corporate Office**      Telangana State Mineral Development Corporation Limited

	<b>Project Area as per EC Granted</b>	<b>Annual Project Area in Possession</b>
Private	0	0
Revenue Land	0	0
Forest	210	210
Others	0	0
<b>Total</b>	<b>210</b>	<b>210</b>

**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Limestone	Million Tons per Annum (MTPA)	30/06/2027	5.3	3.609	5.3

## Conditions

### Specific Conditions

Sr.No.	Condition Type	Condition Details
1	WASTE MANAGEMENT	Topsoil shall be stacked properly with proper slope with adequate safeguards and shall be backfilled for reclamation and rehabilitation of mined out area.

**PPs Submission:** Complied  
No Topsoil generated / handled during this compliance period.

Date:  
18/05/2024

### 2 WATER QUALITY MONITORING AND PRESERVATION

Garland drains shall be constructed to arrest silt and sediments flows from soil and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, greenbelt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for both mine pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Dump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.

**PPs Submission:** Complied  
• Garland drains of requisite size were constructed along the dumps and other areas to arrest silt and sediments. • All garland drains are maintained properly, and de siltation is being carried out at regular intervals. Adequate size of sump is constructed in the lowermost benches with proper measures. • Details are attached as Annexure-1.

Date:  
18/05/2024

### 3 MINING PLAN

Drilling and blasting shall be by using dust extractors/ wet drilling.

**PPs Submission:** Complied  
A wet drilling system with inbuilt water injection system is being adopted for drills to suppress dust generation at source. Dust extraction system is provided at crusher and water injectors are provided to arrest fly dust during unloading of limestone into hopper which is also covered with belt curtains. The drilling and blasting operation are carried out during daytime only.

Date:  
18/05/2024

### 4 GREENBELT

Plantation shall be raised in an area of 40.6ha including a green belt of adequate width by planting the native species around the ML area, roads, OB dumpsites etc. in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. The company shall avoid plantation of monoculture species. Herbs and shrubs shall also form a part of afforestation program besides tree plantation. Fencing of mine pit shall be by chain link.

**PPs Submission:** Complied  
Complied. We have planted 47893 no's of plants in an area of 34.488 Ha hectares (Area approved in Modified RMP) within mining lease as on 31.03.2024 Native type of plant species selected for

Date:  
18/05/2024

	plantation in consultation of local DFO. Local Plant Species: •Kanuga (Pongamia pinnata),•Nidra Ganneru, Dirisena (Samanea saman),•Neem, Vepa (Azadirachta indica),•Gulmohar (Delonix regia),• Subabul (Leucaena leucocephala),•Mango (Mangifera indica),•Burugu (Bombax ceiba),•Chinduga (Albizia chinensis),•Neeruddi (Dolichandrone atrovirens), •Devakanchanam (Bauhinia variegata) Photographs are attached as Annexure-2.	
5	WATER QUALITY MONITORING AND PRESERVATION	The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.
<b>PPs Submission:</b> Complied • Implemented suitable conservation measures to augment ground water resources within the mining area by constructing check dams, rainwater harvesting pits and contour trenches. • Developed 1 no of sump with an extent of 26.700 Ha and having storage capacity of 43.28 Lakh Cubic Meters. • Photographs attached as Annexure-3.		Date: 18/05/2024
6	WATER QUALITY MONITORING AND PRESERVATION	The company shall undertake measures for rainwater harvesting to recharge the ground water.
<b>PPs Submission:</b> Complied Developed a sump with capacity of 43.28 lakh m3 rainwater storage, 2 no's check dams and 1 no's contour trenches for rainwater harvesting and recharge.		Date: 18/05/2024
7	WATER QUALITY MONITORING AND PRESERVATION	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to MoEF, Central Ground Water Authority and Regional Director, Central Ground Water Board.
<b>PPs Submission:</b> Complied • Ground water levels & quality are being monitored on a quarterly basis by engaging MOEF&CC certified third party laboratory. • Two nos of piezometers were constructed in the mine area core zone as per recommendations of Central Ground Water Board (CGWB). • Data of the same is being submitted to CGWA New Delhi, MOEF&CC IRO Hyderabad, CGWB RO Hyderabad and District Ground Officer Mancherial on regular intervals. • Monitoring data of ground water quality & levels for the period of October'23-March'24 is attached as Annexure-4.		Date: 18/05/2024
8	WATER QUALITY MONITORING AND PRESERVATION	Prior permission from the competent authority shall be obtained for drawl of ground water if any.
<b>PPs Submission:</b> Agreed to Comply Presently, we are not drawing any ground water.		Date: 18/05/2024
9	MINING PLAN	Conceptual Mining Plan for every 5 years for the life of the mine shall be prepared and submitted to the Ministry within six months.
<b>PPs Submission:</b> Complied Modification of Review of Mining Plan for the period of 2023-2025 including progressive mine closure is approved by Indian Bureau of Mines, Hyderabad. This document is prepared for the conceptual period up to 04-10-2029.		Date: 18/05/2024
10	LAND RECLAMATION	The existing water bodies and that to be created during the course of mining may be utilized to develop pisciculture by organizing

		fishermen cooperative society with the land losers, if any and specially the poorer section of the people as members of such society with initial financial assistance in the form of share money and managerial assistance so that the members themselves can run the affairs of the society in due course. The project proponent shall arrange marketing tie up so that the society gets fair price of their product and the profits are equitably shared by the members of the society as regular source of income.
<p><b>PPs Submission:</b> Complied</p> <p>There are no land losers under the mining lease as the mining area falls under reserve forest. The water bodies shall be used for supplying water for plantations, dust suppression and for the cement plant operations.</p>		<p>Date: 18/05/2024</p>
11	Human Health Environment	Action plan for abatement and compensation for damage to agricultural land/common property land (if any) due to mining activity shall be submitted to the Ministry within six months.
<p><b>PPs Submission:</b> Complied</p> <p>There is no agricultural land / common property land under the mining lease. The entire mining lease area is under reserve forest.</p>		<p>Date: 18/05/2024</p>
12	Human Health Environment	Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Occupational health and safety measures for the workers including training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. The company shall engage a full time qualified doctor who is trained in occupational health surveillance and health records of the workers shall be maintained.
<p><b>PPs Submission:</b> Complied</p> <p>• Occupational health surveillance program is being conducted periodically and health records are maintained properly. • We provide personnel protective equipment (PPE) to workers working in the mining area. • Workers are provided with regular and adequate training and information on safety and health aspects. • The company has engaged full time qualified doctors in the dispensary, and it is recognized by the State Government as an extension of their PHC at Kasipet (located at 16 kms distance from dispensary).</p>		<p>Date: 18/05/2024</p>
13	AIR QUALITY MONITORING AND PRESERVATION	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.
<p><b>PPs Submission:</b> Complied</p> <p>• Vehicular emissions are being monitored regularly and complying with regulatory norms. • Regular maintenance is carried out for the vehicles used in mining operations. • Overloading of the vehicles is not being practiced.</p>		<p>Date: 18/05/2024</p>
14	MINING PLAN	A Final Mine Closure Plan, along with details of Corpus Fund, shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.
<p><b>PPs Submission:</b> Complied</p> <p>Final Mine Closure Plan (FMCP) shall be submitted to IBM and MOEF&amp;CC as per prevailing rules for necessary approval. As our Mining Lease is valid up to 04-10-2029.</p>		<p>Date: 18/05/2024</p>
<p><b>General Conditions</b></p>		

Sr.No.	Condition Type	Condition Details
1	MINING PLAN	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.
<b>PPs Submission:</b> Agreed to Comply Prior approval will be taken form MOEF&CC if there is any change in the scope and working.		Date: 18/05/2024
2	AIR QUALITY MONITORING AND PRESERVATION	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.
<b>PPs Submission:</b> Being Complied Fugitive dust emissions from all the sources are being controlled. Blast hole drilling is practiced by wet method, water spraying on haul roads and on mineral heaps while loading and unloading at crusher hopper and at conveyor transfer points etc. blasting is carried during non-windy times.		Date: 18/05/2024
3	Noise Monitoring & Prevention	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. shall be provided with ear plugs/muffs.
<b>PPs Submission:</b> Complied Noise levels are being monitored and maintained within the prescribed limits. Personnel protective equipment like ear plugs/muffs is provided to all workers engaged in mining operations.		Date: 18/05/2024
4	WATER QUALITY MONITORING AND PRESERVATION	Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and Grease trap shall be installed before discharge of workshop effluents.
<b>PPs Submission:</b> Complied The workshop wastewater is being collected in Oil and Grease trap (3 chamber tank) and after settling and clean water is utilizing for dust suppression over haulage road.		Date: 18/05/2024
5	Human Health Environment	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.
<b>PPs Submission:</b> Complied All personnel working in mines are provided with protective and safety equipment. They are also provided with adequate training and information on safety and health aspects. Health status also periodically monitored as per Mines Rules.		Date: 18/05/2024
6	Corporate Environmental Responsibility	A separate environmental management cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
<b>PPs Submission:</b> Complied Separate Environmental Management cell is established under the control of senior executive and direct reporting to the head of the organization who is responsible for environmental management of Mines. 1. Mr K Rajasekhar Reddy (Agent-Mines) 2. Mr NP Sahare, HOD (Mines) 3. Mr V Prasad, Sr Manager (Geology) 4. Mr T Shekar Reddy, Dy. Manager (Env) 5. Greenbelt & Horticulture team 6. Third party Agency for Environmental Monitoring		Date: 18/05/2024
7	MISCELLANEOUS	The project authorities shall inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land

		development work.
<b>PPs Submission:</b> Complied Requisite information was submitted to the concern authorities and it an existing and ongoing project.		<b>Date:</b> 18/05/2024
8	MINING PLAN	The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bangalore.
<b>PPs Submission:</b> Complied Funds earmarked for environmental protection measures are not being diverted for any other purposes. Expenses incurred towards environmental protection measures for October 2023 to March 2024 are attached.		<b>Date:</b> 18/05/2024
9	MINING PLAN	The project authority shall inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
<b>PPs Submission:</b> Complied This is an existing and ongoing project. Requisite information was provided to regional office of the ministry.		<b>Date:</b> 18/05/2024
10	MINING PLAN	The Regional Office of this Ministry located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the regional office by furnishing the requisite data/ information / monitoring reports.
<b>PPs Submission:</b> Agreed to Comply Noted and full cooperation will be extended to the officer (s) of the regional office by furnishing the requisite data/ information / monitoring reports.		<b>Date:</b> 18/05/2024
11	MISCELLANEOUS	A copy of clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom suggestion/representation has been received while processing the proposal.
<b>PPs Submission:</b> Complied A copy of clearance letter was submitted concerned Panchayat, local bodies and relevant authorities. No suggestion / representation received.		<b>Date:</b> 18/05/2024
12	MINING PLAN	No change in the calendar plan including excavation, quantum of mineral limestone ore and waste shall be made.
<b>PPs Submission:</b> Agreed to Comply There is no change in the calendar plan to produce quantum of mineral limestone and waste.		<b>Date:</b> 18/05/2024
13	GREENBELT	Conservation measures for protection of flora and fauna in the core & buffer zone shall be drawn up in consultation with the local forest and wildlife department.
<b>PPs Submission:</b> Complied Conservation measures are being taken up in core & buffer zone in consultation with local forest and wildlife department.		<b>Date:</b> 18/05/2024
14	MISCELLANEOUS	State pollution control board should display a copy of the clearance letter at the Regional office. District Industry Centre and Collector's



		Office/Tehsildar's office for 30 days.
<b>PPs Submission:</b> Complied Noted.		Date: 18/05/2024
15	Statutory compliance	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter available with the State Pollution Control Board and also at web site of Ministry of Environment & Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same shall be forwarded to the regional office of this Ministry at Bangalore.
<b>PPs Submission:</b> Complied Advertisement was published in Deccan Chronicle (English) dated: 25-10-2007 and Eenadu (Telugu) dated: 25-10-2007 newspapers and copies were submitted to MOEF & CC, New Delhi and their regional office at Bangalore.		Date: 18/05/2024
16	AIR QUALITY MONITORING AND PRESERVATION	Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO <sub>2</sub> & NO <sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
<b>PPs Submission:</b> Complied • Four ambient air quality-monitoring stations, each in core and buffer zone have been established. Ambient air quality monitoring (PM 10, PM 2.5, SO <sub>2</sub> & NO <sub>x</sub> ) of core zone and buffer zone is being carried out every month. Monitoring reports are being submitted regularly to TSPCB Regional Office at Nizamabad. • AAQ monitoring data for the period October'23-March'24 is attached as Annexure – 5.		Date: 18/05/2024
17	AIR QUALITY MONITORING AND PRESERVATION	Data on ambient air quality (RPM,SPM, SO <sub>2</sub> & NO <sub>x</sub> ) should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/Central Pollution Control Board once in six months.
<b>PPs Submission:</b> Being Complied Data of AAQ (PM10, PM2.5, SO <sub>2</sub> & NO <sub>x</sub> ) is being submitted to the MOEFCC IRO Hyderabad and TSPCB RO Nizamabad once in six months along with compliance report.		Date: 18/05/2024
<b>Visit Remarks</b>		
<b>Last Site Visit Report Date:</b>		27/03/2024
<b>Additional Remarks:</b>		Project: Limestone Mine. Existing in nature, Operational in status. Compliance status of the EC conditions was monitored by Director, MOEFCC IRO-Hyderabad on 27th & 28th March 2024. Report yet to be received.

**Devapur Limestone Mine**  
of  
**Telangana State Mineral Development Corporation Limited**

Devapur Village, Kasipet Mandal, Mancheril District, Telangana – 504218

Environmental Clearance F. No. J -11015/234/2007-IA. II(M) Dt: 16.10.2007

Compliance Report for the Period October 2023 to March 2024

**Annexure-1**

**Garland Drains & SMC Structures**

<b>List of Soil Moisture Structure in 100 Ha</b>					
<b>SI No</b>	<b>Location</b>	<b>ID</b>	<b>Length in mtr</b>	<b>Depth in mtr</b>	<b>Gradient</b>
1	Garland Drain Below BFA-1 (Part I Waste Dump)	GD-1	977	1.5	Gentle
2	Garland Drain Below BFA-2 (Part II Waste Dump)	GD-2	314	1.5	Gentle
2A	Garland Drain Below BFA-2 (in Between Part II Waste Dump & MR 2 Dump)	GD-2A	274	1.5	Gentle
3	Garland Drain Below BFA-3 (Part I Face-3 Side)	GD-3	121	1.5	Gentle
4	Garland Drain Part II Triangle Area	GD-4	467	1.5	Gentle
<b>TOTAL LENGTH IN MTR</b>			<b>2154</b>		
5	Check Dam (Part II Face 4 side)	CD-1	10	2	Gentle

<b>List of Soil Moisture Structure in 110 Ha</b>					
<b>SI No</b>	<b>Location</b>	<b>ID</b>	<b>Length in mtr</b>	<b>Depth in mtr</b>	<b>Gradient</b>
1	Garland Drain External Dump (ED-1)	GD-5	165	1.5	Gentle
2	Garland Drain B Block face 4 Side	GD-6	246	1.5	Gentle
3	Contour Trench VT Centre Area	CT-1	128	1.5	Gentle
<b>TOTAL LENGTH IN MTR</b>			<b>539</b>		
4	Check Dam (Magazine Area)	CD-1	21	1	Gentle



**Devapur Limestone Mine**  
of  
**Telangana State Mineral Development Corporation Limited**

Devapur Village, Kasipet Mandal, Mancherla District, Telangana – 504218

Environmental Clearance F. No. J -11015/234/2007-IA. II(M) Dt: 16.10.2007

Compliance Report for the Period October 2023 to March 2024

---

**Annexure-2**

**Greenbelt Development**

We have planted 47893 no's of plants in an area of 34.488 hectares within mining lease as on **31.03.2024**. Native type of plant species selected for plantation in consultation of local DFO.



Greenbelt in Mine Lease Area



**Devapur Limestone Mine**  
of  
**Telangana State Mineral Development Corporation Limited**

Devapur Village, Kasipet Mandal, Mancheril District, Telangana – 504218

Environmental Clearance F. No. J -11015/234/2007-IA. II(M) Dt: 16.10.2007

Compliance Report for the Period October 2023 to March 2024

---



Plantation under Telangana Ku Haritha Haram





**Devapur Limestone Mine**  
of  
**Telangana State Mineral Development Corporation Limited**

Devapur Village, Kasipet Mandal, Mancherla District, Telangana – 504218

Environmental Clearance F. No. J -11015/234/2007-IA. II(M) Dt: 16.10.2007

Compliance Report for the Period October 2023 to March 2024

---

**Annexure-3**

**Conservation Measures to Augment Ground Water Resources**

We have implemented suitable conservation measures to augment ground water resources within the mining area by constructing check dams, rainwater harvesting pits and contour trenches. Developed **1 no's of sump** with an extent of **26.700 Ha** and having storage capacity of **43.280 Lakh Cubic Meters**.



Mine Sump



**Devapur Limestone Mine**  
of  
**Telangana State Mineral Development Corporation Limited**

Devapur Village, Kasipet Mandal, Mancheril District, Telangana – 504218

Environmental Clearance F. No. J -11015/234/2007-IA. II(M) Dt: 16.10.2007

Compliance Report for the Period October 2023 to March 2024

**Annexure-4**

**Ground Water Quality**

Ground water levels & quality are being monitored on a quarterly basis by engaging MOEF&CC certified third party laboratory. Two nos of piezometers were constructed in the mine area core zone as per recommendations of Central Ground Water Board (CGWB). Data of the same is being submitted to CGWA New Delhi, MOEF&CC IRO Hyderabad.

**October '23 to March '24 (Average)**

Sl. No	Parameters	Locations			
		1	2	3	4
1	Colour (Hazen Units)	5	2.5	6	5.0
2	odour	Agreeable	Agreeable	Agreeable	Agreeable
3	Turbidity (NTU)	7.4	3.3	3.0	2.7
4	pH	6.7	7.5	7.4	7.7
5	E.C (micromhos/cm)	1130.5	694.0	1011.0	936.5
6	Total dissolved solids	651.5	361.5	568.5	525.5
7	Total alkalinity as CaCO3	282.7	85.5	229.0	216.5
8	Phenolphthalein alkalinity as CaCO3	Nil	Nil	Nil	Nil
9	Methylorange alkalinity as CaCO3	282.7	85.5	229.0	216.5
10	Total hardness as CaCO3	439.0	246.5	297.4	263.0
11	Calcium as Ca	84.5	63.5	88.6	67.8
12	Magnesium as Mg	52.8	21.9	18.7	22.5
13	Sodium as Na	48.4	31.8	46.5	87.0
14	Potassium as K	6.1	1.4	1.8	2.9
15	Copper as Cu	<0.01	0.0	0.1	0.1
16	Iron as Fe	0.3	0.2	0.3	0.2
17	Managanese as Mn	0.0095	<0.01	0.0	0.1
18	Chlorides as Cl	117.0	113.6	84.6	132.0
19	Sulphates as SO4	82.5	105.5	41.5	47.5
20	Nitrates as NO3	32.8	7.4	16.1	17.9
21	Flourides as F	1.0	0.7	0.8	0.6
22	Phenolic compounds as c6h5OH	<0.001	<0.001	<0.001	<0.001
23	Mercury as Hg	<0.001	<0.001	<0.001	<0.001
24	Cadmium as Cd	<0.001	<0.001	<0.001	<0.001
25	Selenium as Se	<0.001	<0.001	<0.001	<0.001
26	Cyanide as CN	<0.001	<0.001	<0.001	<0.001
27	Lead as Pb	<0.001	<0.001	<0.001	<0.001
28	Zine as Zn	<0.001	<0.001	<0.001	<0.001
29	Anionic Detergents as MBAS	Absent	Absent	Absent	Absent
30	Resifual chlorine	0.1	Nil	0.2	Nil
31	Pesticides	Absent	Absent	Absent	Absent
32	Silver as Ag	<0.001	<0.001	<0.001	<0.001
33	Mineral Oil	<0.001	<0.001	<0.001	<0.001
34	Hexavalent chromium as Cr+6	<0.001	<0.001	<0.001	<0.001
35	Polynuclear aromatic hydrocarbons as PAH	Absent	Absent	Absent	Absent

# Devapur Limestone Mine

of

## Telangana State Mineral Development Corporation Limited

Devapur Village, Kasipet Mandal, Mancheril District, Telangana – 504218

Environmental Clearance F. No. J -11015/234/2007-IA. II(M) Dt: 16.10.2007

Compliance Report for the Period October 2023 to March 2024

Sl. No	Parameters	Locations				
		5	6	7	8	9
1	Colour (Hazen Units)	6.5	3.0	5.5	5.5	Clear
2	odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Turbidity (NTU)	3.1	2.5	4.7	3.5	Nil
4	pH	7.6	7.6	7.5	7.5	7.7
5	E.C (micromhos/cm)	1160.0	962.5	718.0	762.5	123.0
6	Total dissolved solids	591.0	544.5	418.0	416.5	51.5
7	Total alkalinity as CaCO <sub>3</sub>	365.0	168.5	184.5	213.5	37.0
8	Phenolphthalein alkalinity as CaCO <sub>3</sub>	Nil	Nil	Nil	Nil	0.0
9	Methylorange alkalinity as CaCO <sub>3</sub>	365.0	168.5	184.5	213.5	37.0
10	Total hardness as CaCO <sub>3</sub>	407.4	376.6	284.0	118.0	36.0
11	Calcium as Ca	112.2	87.1	56.1	28.5	5.8
12	Magnesium as Mg	26.9	38.5	34.4	13.6	4.9
13	Sodium as Na	42.4	50.3	31.2	31.7	4.1
14	Potassium as K	1.2	1.7	3.8	1.1	1.1
15	Copper as Cu	0.1	0.1	0.1	0.2	<0.01
16	Iron as Fe	0.2	0.2	0.2	0.2	<0.10
17	Managanese as Mn	0.1	0.1	<0.01	0.1	<0.001
18	Chlorides as Cl	69.7	85.7	68.0	53.5	6.1
19	Sulphates as SO <sub>4</sub>	59.6	65.3	52.0	42.8	3.3
20	Nitrates as NO <sub>3</sub>	29.2	24.5	21.1	19.0	0.2
21	Flourides as F	0.7	0.5	0.7	0.6	0.1
22	Phenolic compounds as c6h5OH	<0.001	<0.001	<0.001	0.0	<0.01
23	Mercury as Hg	<0.001	<0.001	<0.001	<0.001	<0.01
24	Cadmium as Cd	<0.001	<0.001	<0.001	<0.001	<0.01
25	Selenium as Se	<0.001	<0.001	<0.001	<0.001	<0.01
26	Cyanide as CN	<0.001	<0.001	<0.001	<0.001	<0.01
27	Lead as Pb	<0.001	<0.001	<0.001	<0.001	<0.01
28	Zine as Zn	<0.001	<0.001	<0.001	0.3	<0.01
29	Anionic Detergents as MBAS	Absent	Absent	Absent	Absent	Absent
30	Resifual chlorine	0.1	<0.04	<0.04	Nil	<0.04
31	Pesticides	Absent	Absent	Absent	Absent	Absent
32	Silver as Ag	<0.001	<0.001	<0.001	<0.001	<0.01
33	Mineral Oil	<0.001	<0.001	<0.001	<0.001	<0.01
34	Hexavalent chromium as Cr+6	<0.001	<0.001	<0.001	<0.001	<0.01
35	Polynuclear aromatic hydrocarbons as PAH	Absent	Absent	Absent	Absent	Absent

1.Devapur Vagu, 2. Bore well (Near Magazine), 3. Open well (Devapur village), 4. Bore well Water (Maddimadugu Village), 5. Bore Well (Devapur Village), 6. Borewell Water (Near Colony), 7. Borewell Water (Near Gatrapally), 8. Pit water (Mines), 9. Drinking water (Near Mines).

**Devapur Limestone Mine**  
of  
**Telangana State Mineral Development Corporation Limited**

Devapur Village, Kasipet Mandal, Mancheril District, Telangana – 504218

Environmental Clearance F. No. J -11015/234/2007-IA. II(M) Dt: 16.10.2007

Compliance Report for the Period October 2023 to March 2024

**Annexure-5**

**Ambient Air Quality Monitoring Data**

Four ambient air quality-monitoring stations, each in core and buffer zone have been established. AAQ monitoring (PM 10, PM 2.5, SO<sub>2</sub> & NO<sub>x</sub>) of core zone and buffer zone is being carried out every month.

Core Zone - October-2023 to March-2024

Parameters	Loading Area			Unloading Area			Drilling Area			Haulage Road		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
PM 10 µg/m <sup>3</sup>	62	68	65	65	73	69	65	72	69	56	62	59
PM 2.5 µg/m <sup>3</sup>	23	26	25	23	30	27	24	29	27	17	23	20
SO <sub>2</sub> µg/m <sup>3</sup>	6	13	10	7	13	10	6	11	9	7	13	11
NO <sub>2</sub> µg/m <sup>3</sup>	16	26	21	17	26	22	16	23	19	19	26	23
Lead (Pb)	0.06			0.11			0.05			0.03		
Carbon monoxide (Co)	BDL			BDL			BDL			BDL		
Ammonia (NH <sub>3</sub> )	BDL			BDL			BDL			BDL		
Ozone (O <sub>3</sub> )	12			8			10			5		
Benzene (C <sub>6</sub> H <sub>6</sub> )	<0.02			<0.02			<0.02			<0.02		
Arsenic (As)	ND			ND			ND			ND		
Nickel (Ni)	ND			ND			ND			ND		
Benzo pyrene (Bap)	ND			ND			ND			ND		

Buffer Zone - October-2023 to March-2024

Parameters	Devapur Village			Forest Area			Gatlarapalli			Maddimadugu		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
PM 10 µg/m <sup>3</sup>	52	61	57	40	46	42	48	54	51	58	63	61
PM 2.5 µg/m <sup>3</sup>	20	24	22	15	18	17	17	22	20	23	25	24
SO <sub>2</sub> µg/m <sup>3</sup>	8	10	9	5	7	6	5	9	7	9	13	11
NO <sub>2</sub> µg/m <sup>3</sup>	17	21	19	14	17	16	16	20	18	18	25	22
Lead (Pb)	0.09			0.02			0.04			0.12		
Carbon monoxide (Co)	BDL			BDL			BDL			BDL		
Ammonia (NH <sub>3</sub> )	BDL			BDL			BDL			BDL		
Ozone (O <sub>3</sub> )	7			1			3			6		
Benzene (C <sub>6</sub> H <sub>6</sub> )	<0.02			<0.02			<0.02			<0.02		
Arsenic (As)	ND			ND			ND			ND		
Nickel (Ni)	ND			ND			ND			ND		
Benzo pyrene (Bap)	ND			ND			ND			ND		



**Devapur Limestone Mine**  
of  
**Telangana State Mineral Development Corporation Limited**

Devapur Village, Kasipet Mandal, Mancheril District, Telangana – 504218

Environmental Clearance F. No. J -11015/234/2007-IA. II(M) Dt: 16.10.2007

Compliance Report for the Period October 2023 to March 2024

---

**Fugitive Emission Control Measures**

Fugitive dust emissions from all the sources are being controlled. Blast hole drilling is practiced by wet method, water spraying on haul roads and on mineral heaps while loading and unloading at crusher hopper and at conveyor transfer points etc. blasting is carried during non-windy times.



\*\*\*

**Devapur Limestone Mine**  
of  
**Telangana State Mineral Development Corporation Limited**

Devapur Village, Kasipet Mandal, Mancherial District, Telangana – 504218

Environmental Clearance F. No. J -11015/234/2007-IA. II(M) Dt: 16.10.2007

Compliance Report for the Period October 2023 to March 2024

---

---

**Environmental Protection Expenditure**

<b>Sl. No</b>	<b>Nature of Expenditure</b>	<b>Amount in Rs</b>
1	Water Tanker for dust suppression	26,13,513
2	Greenbelt Development Manpower	6,67,474
3	Civil and maintenance charges for Afforestation	96,375
4	Environmental monitoring expenses	2,06,665
5	Power Consumption for Pollution Control Equipment for crusher	5,70,664
6	Power Consumption for water pumps	41,063
	<b>Total</b>	<b>41,95,754</b>

\*\*\*