



GEOMYSORE SERVICES (INDIA) PVT. LTD.

GMSI_JML_Six Monthly Report_Let_MoEF_dt 30.11.2024

TO:

Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhavan,
Government of India,
Jor Bagh Road,
New Delhi-110003.

Sub: Submission of Six Monthly Compliance Report for Environmental Clearance in respect of Jonnagiri Gold Mine of M/s Geomysore Services (India) Pvt. Ltd. in Tuggali Mandal, Kurnool District, Andhra Pradesh.

Dear sir,

We append herewith the Six Monthly Compliance report for the period April-2024 to September-2024 for the conditions stipulated in the Environmental Clearance Order vide letter no. F.No.J-11015/393/2008-IA.II(M) dated 02-08-2010. This is for your kind perusal and records.

Thanking you,

Yours truly,
For Geomysore Services (India) Pvt. Ltd.

Manas Ranjan Biswal
Manas Ranjan Biswal,
Director-Operations.



Encl: Annexure-1: Environment Monitoring Reports (water, air, noise, soil)

Copy to:

1. The Joint Director, Ministry of Environment, Forest & Climate Change, Integrated Regional Office, Green House Complex, Gopalareddy Road, Vijayawada-520010.
2. The Chief Conservator of Forests, Regional Office(SZ), Kendriya Sadan 4th Floor, E&F Wings, 17th Main Road, 1st Block Koramangala, Bangalore-560034.
3. The Environmental Engineer, Andhra Pradesh Pollution Control Board, Regional Office, 3rd floor, Paryavaran Bhavan, Labour Colony Road No.1, VR Colony Main Road, Kurnool, Andhra Pradesh-518006

REGISTERED OFFICE

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CORRESPONDENCE ADDRESS

#187/1E, Pagidirai Village, Tuggali Mandal,
Kurnool District, Andhra Pradesh - 518 390
Email : reception@geomysore.com

Compliance status toward the stipulated EC conditions granted vide EC Identification No. -EC22B008MH126424, File No. - J-11015/393/2008-IA.II (M); Dated 02nd August 2010 for the production of 0.40 MTPA (ROM) and for setting up of Ore Processing Plant with a capacity of 0.30 Million Tonnes Per Annum (MTPA) throughput located at Jonnagiri, Pagadrayi & Erragudi Villages, Tuggali Mandal, Kurnool District, Andhra Pradesh by M/s. Geomysore Services (India) Private Limited.

(for the period April-2023 to September-2024)

A. SPECIFIC CONDITIONS	COMPLIANCE
i) The environmental clearance is subject to approval of the State Land use Department, Government of Andhra Pradesh for diversion of agricultural land for non-agricultural use.	We are in the process of purchasing land that are required for the project. We have acquired about 243.54 acre of land which are required for our project implementation and operations. Out of 243.54 acre of purchased land, 134.11 acre of land has been converted to non- agricultural use. We are in the process of acquiring the balance land which are required for our project and simultaneously land conversion also in process.
ii) The project proponent shall obtain Consent to Establish and Consent to Operate from the Andhra Pradesh Pollution Control Board and effectively implement all the conditions stipulated therein.	CFE: Consent for Establishment has been renewed by APPCB vide Order No.163 /APPCB/CTE/RO-KNL//HO/2010 dated 15/05/2023 for another 7 years which is valid up to 29.03.2028. CFO: Consent for Operation for Mining of Gold Ore and Gold Ore processing plant (Pilot processing plant) has been renewed by APPCB vide Consent Order No: 449765 /APPCB/KNL/KNL/CTO/HO/2024 dated 25/08/2024 is valid up to 30.06.2025.
iii) International cyanide code shall be adopted and all necessary safeguard measures shall be taken to avoid any incidence of cyanide poisoning of this project.	Currently our process does not involve the usage of cyanide as we are processing the gold ore using gravity recovery method which does not require cyanide. However, we assure that international cyanide code and all necessary safeguard measures will be implemented once we use cyanide.
iv) Necessary occupational health and safety measure for the workers against arsenic poisoning including fugitive dust, accidental arsenic poisoning and ground water contamination shall be	Currently, we do not use any chemicals during the ore processing activities. However, we are periodically monitoring the occupational health of our employees by organizing on-site check-ups. We assure that we shall engage a full-time qualified doctor who is trained in occupational health once the proposed processing plant is built where related chemicals will be involved.

undertaken. The Company shall engage a full-time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to chemicals (particularly cyanide) and respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. The proponent shall also maintain cyanide kit at the project site and provide necessary training for its usage to the workers involved in handling of cyanide. Review of impact of various health measures undertaken shall be conducted followed by follow up action wherever required.	<i>Photographs showing on-site health Checkups</i>
v) Necessary safeguard measures including provision of de-fluoridization shall be made in the project to ensure that fluoride content in the water is well below the prescribed standards.	We are monitoring the water quality in core and buffer zones of project area periodically to ensure that fluoride content in the water is below the prescribed standards. Reports are being submitted regularly along with the half yearly compliance report to MOEF&CC. (Please Refer Annexure I – Copy of Water Quality Report)
vi) The tailing storage area shall be lined with LDPE lining on all sides including bottom to ensure that there is no leaching into groundwater. Masonry wall all along the tailing dump site shall be made. Four leachate pits in the four corners of the tailing pit shall also be made.	We are in the process of constructing the processing plant and tailing dam. We have planned to have 3mm HDPE lining on all sides including bottom to ensure that there will be no leaching into groundwater and this will be complied once the Tailing Storage facility is ready.
vii) Monitoring groundwater shall be carried out regularly around the tailing storage area and records maintained. In case, any leaching is observed at any point of time necessary corrective measures shall be	We are in the process of constructing the processing plant and tailing dam. Regular groundwater quality monitoring will be carried out around the tailing area and records will be maintained accordingly once the Tailing Storage facility is ready. In case any leaching is observed at any point of time necessary corrective measures will be taken immediately and matter will be reported to the concerned authority.

taken immediately and matter shall be reported to the competent authority.	
viii) Necessary safeguard measures shall be taken to ensure that the resultant particulate level in the area is well within the prescribed limits.	We are ensuring all the necessary safeguard measures to be taken to ensure that the resultant particulate level in the area is well within the prescribed limits. We are controlling the fugitive dust emissions by water sprinkling on the haul roads, unloading points. We have installed continuous ambient air quality monitoring station on the project site.   <i>Photograph showing water sprinkling on the haul road</i> <i>Photograph showing Continuous Air Quality Monitoring Station</i>
ix) The project affected people shall be rehabilitated and compensated as per the National Rehabilitation and Resettlement Policy, 2007 in consultation with the State Government. Detailed Plan may be prepared in this regard within 3 months and a copy submitted to Regional Office of this Ministry at Bangalore.	There are no project affected people within the ML area.
x) Only Gold ore will be extracted from the Mine and processing of Gold only will be done in the processing plant. No other Mineral will be extracted/produced/generated by any way from this mine and processing plant project. If any mineral is to be extracted from mine and/or OB dumps then fresh reference shall be made to this Ministry as per	We are abided by the condition.

procedure prescribed in the EIA Notification 2006.	
xi) Land use pattern of the nearby villages shall be studied, including common property resources available for conversion into productive land. Action plan for abatement and compensation for damage to agriculture land/ common property land (if any) in the nearby villages, due to mining activity shall be prepared and implemented.	The detailed land use pattern of the nearby villages is made in EIA/EMP. We had engaged 2 Botanists (Agricultural Scientists) to study the agriculture land. We are also providing compensations wherever crops are damaged due to the mining related activities.
xii) The top soil shall temporarily be stored at earmarked site (s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	The top soil generated during the Mining activities has been stored at an earmarked site and being utilized for plantation.  <i>Photograph showing the top soil dump</i>
xiii) The over burden (OB) generated shall be concurrently backfilled. There shall be no external over burden dump. The entire backfilled area shall be progressively afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of	As the mine is at its early production stage and the backfilling can be started only after the exhaustion of the ore reserves. Once the ore is exhausted, we shall start the backfilling and comply with this requirement. Currently, we are dumping the waste rock generated during the pit development activities in dedicated dump area which is located NE of the pit. We are submitting the six-monthly report on regularly basis.

Environment & Forests and its Regional Office located at Bangalore on six monthly bases.	
xiv) Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, soil and mineral dumps to prevent run off of water and flow of sediments directly into the water bodies. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. the drains shall be regularly desilted, particularly after the monsoon, and maintained properly. Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed around the mine pit, topsoil dumps and the mineral dumps to prevent run off of water and flow of sediments directly into the water bodies and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump 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 de-silted at regular intervals.	We have constructed catch drains and siltation ponds of appropriate size around the mine working, waste dump, soil storage area and ROM stocks to prevent run off of water and flow of sediments directly into the water bodies.  <i>Photographs showing garland drain made along the mine workings and stock pile</i>

xv) The project proponent shall develop a 7.5m wide green belt in the safety zone all around the mining lease. In addition, plantation shall be raised in the backfilled and the reclaimed area, around void, roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.

Our land purchase is still in progress. We have planted more than 27,000 saplings in our purchased land within the ML area, which includes around 19,000 saplings during this reporting period. Further we are also developing green belt which covers lands belonging to Pagadrayi, Jonnagiri and Bollavanipalle villages.



Photographs showing green belt development

We are also relocating the trees from mine area to the green belt zone.

	 <i>Photographs showing tree relocating</i>
xvi) Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as around crushing and screening plant, loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	We are ensuring all the necessary safeguard measures to be taken to ensure that the resultant particulate level in the area is well within the prescribed limits. We are controlling the fugitive dust emissions by water sprinkling on the haul roads, unloading points. We have installed continuous ambient air quality-monitoring station on the project site. 

	<i>Photographs showing solar powered water sprinkling for dust suppression</i>  <i>Photograph showing CAAQMS at project site</i>
xvii) 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	We have performed a comprehensive study and prepared report on ground water conditions in both core and buffer zones by the CGWA accredited ground water consultant. We have submitted the request letter to Regional Director, Central Ground Water Board, southern region for their recommendations. We shall implement the conservation measures once the recommendations received from the Regional Director, Central Ground Water Board.  <i>Photographs showing the ground water recharge structures at the project site</i>
xviii) Regular monitoring of ground water level and quality shall be carried out in and around the mine lease 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-	We are monitoring the ground water level and ground water quality in core and buffer zones of project area periodically. Reports are being submitted regularly along with the half yearly compliance report to MOEF&CC. (Please Refer Annexure I – Copy of Water Quality Report)

monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office, Bangalore, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. In case adverse effect on ground water quality and quantity is observed mining shall be stopped and resumed only after mitigating steps to contain any adverse impact on ground water is implemented.	<i>Photographs of Installed Piezometer</i>
xix) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of ground water required for the project.	We have obtained the NOC from Govt. of Andhra Pradesh, Ground Water and Water Audit Dept. for withdrawing ground water (180 KLD) vide letter no: 3927/Hg-II/2023-dt.14.09.2023. The NOC is valid for three years from the date of issues of the letter. In addition, the water requirement for the project will be drawn from HNSS canal located 18 km away to the project area. We have received the approval from Water Resources Department, Government of Andhra Pradesh on 23.2.2022 for lifetime.
xx) Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	We have performed a comprehensive study and prepared report on ground water conditions in both core and buffer zones by the CGWA accredited ground water consultant. We have submitted the request letter to Regional Director, Central Ground Water Board, southern region for their recommendations. We shall implement the suitable rainwater harvesting measures once the recommendations received from the Regional Director, Central Ground Water Board.

xxi) Drills shall either be operated with dust extractors or equipped with water injection system.	Currently we are operating the mine where drilling is not required as we are mining the debris material which is loose and soft in nature. Once we touch the hard rock drilling operation shall be functional and we shall use the dust extractors along with water injection system to suppress dust generation.
xxii) Need based assessment for the nearby villages shall be conducted to study economic measures which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes under CSR. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs.	As a part of CSR activities, we have spent as on date INR 4.5 crore towards the community development. 1. Clean drinking water was supplied to approximately 3,000 people every day during the summers and 2 schools throughout the academic year. 2. 40 water bore wells have been drilled by GMSI with 10 yielding water. Associated pipelines to connect into the existing distribution system have also been laid. 3. GMSI has trained and provided employment to 50 local members of the community on the company DC and RC drilling rigs since 2014 during 2 separate drilling campaigns. 4. GMSI has further employed another 150 members of the community for various activities within the organization such as community relations assistants, cooks, drivers, cleaners, security guards and green belt development. As well as developing initiatives and providing employment to clean up the villages, repair local roads and distribute the drinking and household water as supplied by GMSI.
	5. Education a) Transportation arrangements for the students to and from schools within the villages b) Providing free drinking water to the schools c) Providing the schools with the necessary educational staff volunteers - Employment of approximately 30 school teachers, aids and helpers in 7 different schools within the community d) We have set up free computer training centres to train the school children. e) Assisting the schools with the infrastructure developments f) We have been also involved in the Extra Curricular Activities with these schools 6. Skill Development a) Rural Youth being trained in Green Belt Development, Modern Agricultural Practices and Soil Rejuvenation. b) Conducted spoken English classes and other skill development programs to the local unemployed c) Set up free computer training centres and provided training to local unemployed youth d) Imparted training in handling drill cores etc.,

- e) Imparted training in carrying out resistivity surveys
- f) Trained in collection of geochemical samples

7. Health

- a) Eye Camp and Health checkup camps have been conducted. 450 farmers underwent eye check up and 150 farmers underwent eye surgery.
- b) Free drinking water for the local hospital
- c) Setting up back-up battery power unit in the hospital that has helped to attend to emergency cases during the nights with power failure
- d) Set up and employed a local vet who assisted the community with livestock insemination and other medical requirements

8. Infrastructure & Sanitation

We have deployed permanent sanitary staffs in the surrounding villages and schools to maintain the sanitary conditions of these villages and schools. From time to time, we also deploy our additional staffs and machineries to make the process much more efficient. We have been involving in maintaining the local roads, drainage system, plantation and other village related infrastructures.

9. Plantation

Been actively involved in the plantation activities in and around the lease area.



Distribution of Study materials for 2023 – 2024 10th Class batch students.



High School Students having lunch under Dinning sheds which has been constructed by GSMI to avoid the Crows and Dogs while having lunch for 285 Students



Published in Local news Papers about Dinning Shed has been constructed by GMSI



School Infrastructure - Water Pumps for the Borewell



Discussions with farmers regarding crop issues. Discussion at local Gram Sabha meeting involving Mandal Parishath Development Officer and local villagers



Provided free eye camp and eye surgeries in Pagadirai and Jonnagiri villages



Back-up battery power set-up at Pagadirai hospital



RO Water Purifier had been sponsored by GMSI at Primary Health Centre Pagadirai for patients & Staff who visit hospital by GMSI



Animal Health awareness through free veterinary services



Borewells in the villages



Continuous Drinking Water Supply to the Villages



1 km long drinking water pipeline to the village Pagirirai



Village Cleaning Activities



Village Roads



Conducted Bull Race program in Jonnagiri village



Venu Gopala Swamy Chariot shed has been constructed at Jonnagiri Village by GSMI



Plantation along the village roads



Photographs showing the Medical camp organised for the villagers

	 <i>Photographs showing supply of drinking water to the villagers</i>
xxiii)Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	We have installed the STP for the domestic waste water and the ETP for the workshop /mining operations.  <i>Photograph showing STP & ETP unit</i>
xxiv)Provision shall be made for the housing the labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	We have setup the accommodation and necessary infrastructures like kitchen, toilets, water purification system, etc., for the labourers within the site. 



Photograph showing workmen accommodation



Photograph showing Kitchen & Dining hall



Photographs showing toilets

xxv) The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM10), NOx in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is close shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M)dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.

Ambient air quality in the core and buffer zones are being monitored periodically. Copies of such monitoring reports are being submitted to MoEF&CC on regular basis along with the half yearly compliance report.



Photograph showing Continuous Air Quality Monitoring Station



Photograph showing air quality monitoring devices

xxvi)The project proponent shall take all precautionary measures during mining operations for conservation and protection of endangered flora and fauna found in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bangalore.	The mining area is devoid of endangered flora and fauna. The action plan for conservation of flora and fauna has been prepared submitted to the State Forest and Wildlife Department. Necessary allocation of funds has been considered in the project cost. We shall implement the measures prior to the project becoming completely functional.
xxvii) Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bangalore.	We shall submit the digital data of the project area using remote sensing technique regularly once in three years for monitoring land use pattern to Ministry of Environment and Forests and to Regional Office on regular basis.
xxviii) 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.	We shall submit the Final Mine Closure Plan along with details of Corpus Fund to the Ministry of Environment & Forests, 5 years in advance of final mine closure for approval.

xxix)The environmental clearance is subject to the condition, if any, stipulated by the IBM on the mining scheme submitted by the project proponent for its approval.	We are adhering to all the conditions stipulated by the IBM on the mining scheme.
B. GENERAL CONDITIONS	COMPLIANCE
i) No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.	We are adhering to the mining technology and scope of working as approved by the Ministry of Environment & Forests. Currently, we are carrying mining activities using shovel and trucks combination. In case, there is any change in the mining technology and scope of working, we shall approach the Ministry of Environment & Forests for the approval prior to the implementation.
ii) No change in the calendar plan including excavation, quantum of mineral and waste shall be made.	We are adhering to approved mining plan and the approved conditions approval of the Ministry of Environment & Forests.
iii) 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.	We are controlling the fugitive dust emissions from all the sources regularly by water spraying arrangement on haul roads, loading and unloading and at transfer points.  The block contains four photographs. The top-left photo shows a close-up of a water spraying mechanism with blue tanks and a white pipe. The top-right photo shows a yellow truck driving on a dirt road with a water spray system. The bottom-left photo shows a yellow truck parked on a dirt road. The bottom-right photo shows a yellow truck driving away on a dirt road. <i>Water sprinkling using solar water tanker</i>

iv) At least four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO₂, NO_x 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	We have installed continuous ambient air quality-monitoring station. <i>Photograph showing Continuous Air Quality Monitoring Station</i>
v) Data on ambient air quality (PM10, PM2.5, SO₂, NO_x) 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.	The quality of ambient air is being monitored regularly by GOI, MOEF&CC recognized consultant. The reports are being sent regularly to the ministry and the state pollution control board along with six months compliance reports.
vi) 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.	We are following the necessary measures for maintaining the noise levels below the threshold limit. The noise levels are being maintained below 85 dBA. The personnel, who are engaged in the noisy workplaces and HEMM operation are provided with the corresponding PPE like Earplugs/Muffs.

vii) Industrial waste water (workshop and waste water 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.	We have installed the Effluent Treatment Plant to collect and treat the workshop waste water.  Photograph showing ETP unit
viii) Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	We are taking necessary precautions to avoid the personnel against exposure to the dust. All the sources of dust generation are kept under special concentration and the dust suppression is happening effectively with the sprinklers and developed avenue plantation along the haul roads. All the personnel are provided with the necessary Personal Protective Equipment's like dust masks, safety goggles, ear plugs, safety shoes, reflective jackets etc. The workmen are provided with all necessary trainings on occupational health and safety. Proper traffic/safety sign boards are placed wherever required and rules are being followed strictly for enhancing the safety in the work place. 

	 <i>Photographs showing safety training conducted to employees at project site</i>
ix) 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.	Currently we have engaged consultant with suitable qualification to maintain the environment related compliances. We shall depute a senior executive with the suitable qualification once the project is completely functional.

x) The project authorities shall inform to the Regional Office of the Ministry 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.	With obtained all the statutory clearances, the mine lease deed got executed and Mines commenced operations from the year 24.02.2014. As far beneficiation / process plant part is concerned, the project execution has achieved over 60 % of work completion.																																																																		
xi) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bangalore.	We abide by the said condition and state of environment expenditure done till March-2024 is given in the table below. Values are in INR <table><tr><th>Sl. No.</th><th>Particulars</th><th>Expenditure for FY 2015-2023</th><th>Expenditure for FY 2023-2024</th><th>Total Expenditure</th><th>Funds Earmarked for FY 2024-2025</th></tr><tr><td>1</td><td>Environment Monitoring</td><td>75,50,000</td><td>13,00,000</td><td>88,50,000</td><td>13,00,000</td></tr><tr><td>2</td><td>Wildlife Conservation report</td><td>-</td><td>3,78,000</td><td>3,78,000</td><td>3,78,000</td></tr><tr><td>3</td><td>EIA Report</td><td>1,14,500</td><td>5,25,000</td><td>6,39,500</td><td>0</td></tr><tr><td>4</td><td>Fauna & Flora report</td><td>4,58,000</td><td>-</td><td>4,58,000</td><td>-</td></tr><tr><td>5</td><td>Sample Analysis</td><td>90,000</td><td>-</td><td>90,000</td><td>-</td></tr><tr><td>6</td><td>AQMS Equipment</td><td>-</td><td>15,00,000</td><td>15,00,000</td><td>-</td></tr><tr><td>7</td><td>Water Survey</td><td>500000</td><td>2,30,000</td><td>7,30,000</td><td>2,30,000</td></tr><tr><td>8</td><td>Green Belt</td><td>3120022</td><td>6,43,890</td><td>34,00,022</td><td>8,00,000</td></tr><tr><td>9</td><td>Others</td><td>24,600</td><td>-</td><td>24,600</td><td>-</td></tr><tr><td></td><td>Total</td><td>1,18,57,122</td><td>45,76,890</td><td>1,60,70,122</td><td>27,08,000</td></tr></table>	Sl. No.	Particulars	Expenditure for FY 2015-2023	Expenditure for FY 2023-2024	Total Expenditure	Funds Earmarked for FY 2024-2025	1	Environment Monitoring	75,50,000	13,00,000	88,50,000	13,00,000	2	Wildlife Conservation report	-	3,78,000	3,78,000	3,78,000	3	EIA Report	1,14,500	5,25,000	6,39,500	0	4	Fauna & Flora report	4,58,000	-	4,58,000	-	5	Sample Analysis	90,000	-	90,000	-	6	AQMS Equipment	-	15,00,000	15,00,000	-	7	Water Survey	500000	2,30,000	7,30,000	2,30,000	8	Green Belt	3120022	6,43,890	34,00,022	8,00,000	9	Others	24,600	-	24,600	-		Total	1,18,57,122	45,76,890	1,60,70,122	27,08,000
Sl. No.	Particulars	Expenditure for FY 2015-2023	Expenditure for FY 2023-2024	Total Expenditure	Funds Earmarked for FY 2024-2025																																																														
1	Environment Monitoring	75,50,000	13,00,000	88,50,000	13,00,000																																																														
2	Wildlife Conservation report	-	3,78,000	3,78,000	3,78,000																																																														
3	EIA Report	1,14,500	5,25,000	6,39,500	0																																																														
4	Fauna & Flora report	4,58,000	-	4,58,000	-																																																														
5	Sample Analysis	90,000	-	90,000	-																																																														
6	AQMS Equipment	-	15,00,000	15,00,000	-																																																														
7	Water Survey	500000	2,30,000	7,30,000	2,30,000																																																														
8	Green Belt	3120022	6,43,890	34,00,022	8,00,000																																																														
9	Others	24,600	-	24,600	-																																																														
	Total	1,18,57,122	45,76,890	1,60,70,122	27,08,000																																																														
xii) The project authorities shall inform 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.	With obtained all the statutory clearances, the mine lease deed got executed and Mines commenced operations from the year 24.02.2014. As far beneficiation / process plant part is concerned, the project execution has achieved over 60 % of work completion.																																																																		

xiii) The Regional Office of the Ministry located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	We shall adhere to all the conditions and will extend all our cooperation during any such inspections by the Authority.
xiv) The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Bangalore, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests, Bangalore, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.	We are submitting the compliance reports regularly at every six-month interval. We have uploaded the compliance report on our company website (website link - https://geomysore.com/wp-content/Doc/MOEF_Compliance.pdf)

xv) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned, within seven days of the issue of this clearance letter informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board and also at Website of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bangalore.	We have complied to the mentioned condition.
xvi) A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Panchayat/ Municipal Corporation, Urban Local Bodies and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	We have put the Environmental Clearance letter of the project on the organization website. The link is as follows: https://geomysore.com/environmental-clearanceec/

xvii) The State pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and the Collector's Office/ Tehsildar's Office for 30 days.	Agreed, the copy of EC letter is available with the SPCB for necessary compliance. ANNEXURE - 6A ANDHRA PRADESH POLLUTION CONTROL BOARD Regional Office, 7th Floor, Shree Shopping Complex, Andhra Nagar Main Road, Karimad - 118 002 SECRETARY, Environmental Engineer Phone No. 08618 - 230000 Fax No. 08618 - 230019 E-mail: ae@apspcb.com LT. An. Gen. M/PCB/RO/KM/PH/09 985 To i) The District Collector & Magistrate, Sursand District, Sursand ii) The Chief Executive Officer, D/Is Parashad, Sursand iii) The District Industries Centre, Sursand iv) The Collector, Tuggeh (M), Sursand Dist v) The Green Panchayat Office, Jangarh (V), Tuggeh (M), Sursand Dist vi) The Green Panchayat Office, Jangarh (V), Tuggeh (M), Sursand Dist vii) The Green Panchayat Office, Jangarh (V), Tuggeh (M), Sursand Dist viii) The Green Panchayat Office, Jangarh (V), Tuggeh (M), Sursand Dist By Subj: PCB - E.O - KNL - Application for prior Environmental Clearance of M/s Geo Mysore Services, India Pvt Ltd (Uttamgarh Mine - 397 R214), Jangarh, Tuggeh (M), Tuggeh (M) Village, Sursand District for Establishment of Gold Ore Processing and Gold ore Processing unit - Proceedings of public hearing conducted on 09-12-2009 - Communicated for display - Requested - Reg. Ref: 1. Serial dt: 04-06-2007 received from JCEPC/PCB, Board Office, Hyderabad 2. Industry's letter for public consultation, received on 06-05-2009 3. T.O. dt: 10-05-2009 received from M/s. Board Office, Hyderabad 4. Serial dt: 10-05-2009 received from M/s. Board Office, Hyderabad 5. Industry's letter received on 12-05-2009 6. T.O. dated dt: 12-05-2009 sent to JCEPC/PCB, Board Office, Hyderabad for withdrawing the application for public hearing 7. Industry's letter received on 10-06-2009 8. Serial dt: 18-06-2009 received from JCEPC/PCB, Board Office, Hyderabad 9. Public Hearing Notification issued on 08-11-2009 10. Public Hearing held on 09-12-2009 With reference to the above, it is to submit that as per the directions given by MoEF, Govt. of India, New Delhi, the public hearing was conducted for establishment of Gold Ore Processing unit of M/s Geo Mysore Services, India Pvt Ltd (Uttamgarh Mine - 397 R214), Jangarh, Tuggeh (M), Tuggeh (M) Village, Sursand District for Establishment of Gold Ore Processing and Gold ore Processing unit - Proceedings of public hearing conducted on 09-12-2009 at 11:00 A.M. under the supervision of District Collector, Sursand in accordance with EPA Notification, 2006. As per the notification, the proceedings of the public hearing shall be contemporaneously deposited at your office for information of the public. Hence, I am herewith enclosing the proceedings of the public hearing for display in your office. Consents if any, on the proceedings may be sent directly to MoEF, New Delhi for Mining activity & SEIAA, A.P. Govt. of India, MoEF and M/s. Geomysore Services (India) Pvt Ltd, 7th Floor, Shree Shopping Complex, Andhra Nagar Main Road, Karimad - 118 002, for necessary action. Yours faithfully,  ENVIRONMENTAL ENGINEER Encl: Proceedings of the public hearing • Copy submitted to the Joint Chief Environmental Engineer (JCEE), A.P. Pollution Control Board, Board Office, Hyderabad for display of said information and taking necessary action. • Copy submitted to the Joint Chief Environmental Engineer, A.P. Pollution Control Board, Board Office, Hyderabad for display of said information and taking necessary action.
xviii) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and shall also be put on the website of the company along with the status of compliance of environmental clearance conditions. The same shall also be sent to the Regional Office of Ministry by e-mail.	Environmental Statement in Form-V is being regularly submitted and the same has been uploaded on the company's website. https://geomysore.com/wp-content/Doc/Environmental_FormV28112024.pdf

Geomysore Services (India) Pvt. Ltd

Place: Jonnagiri

Date: 30-11-2024

Signature: *Manas Ranjan Biswal*

Name in full: Manas Ranjan Biswal

Designation: Director-Operations

for Geomysore Services (India) Pvt. Ltd.

ENVIRONMENTAL MONITORING REPORT

April, 2024

Project : Jonnagiri Gold Mine
Jonnagiri, Pagadrayi & Yerragudi Villages
Tuggali Mandal, Kurnool District, Andhra Pradesh

Lessee

M/s. Geomysore Services (India) Pvt Ltd.,
Bangalore, Karnataka

ENVIRONMENTAL LABORATORY
(Unit of Mineral Engineering Services)
(Accredited by NABL &, MOEF&CC Under E(P) 1986)
#948, 2nd Cross, Kammanahalli Main Road,
St Thomas Town Post, Bangalore- 560 084, Karnataka,

LIST OF TABLES

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd
 Name of the Project : Jonnagiri Gold Mine
 Sample Collected by : Environmental Laboratory
 Station at & Code : A - I, Core Zone (ML Area)
 Duration : 24 Hrs
 Issue date : 02.05.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.04.2024	N/24/04/1-0163	16	20	48	27
06.04.2024	N/24/04/2-0003	12	15	52	28
10.04.2024	N/24/04/2-0123	15	17	55	30
11.04.2024	N/24/04/2-0212	12	14	54	29
17.04.2024	N/24/04/3-00166	10	12	53	27
18.04.2024	N/24/04/3-00216	15	16	56	29
24.04.2024	N/24/04/4-0127	14	17	45	26
25.04.2024	N/24/04/4-0184	13	15	53	35
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar
 ARSHIYA KOUSAR
 Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

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TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd
 Name of the Project : Jonnagiri Gold Mine
 Sample Collected by : Environmental Laboratory
 Station at & Code : A - II, Bollavanipalli village
 Duration : 24 Hrs
 Issue date : 02.05.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.04.2024	N/24/04/1-0164	9	12	46	29
06.04.2024	N/24/04/2-0004	12	16	58	29
10.04.2024	N/24/04/2-0124	10	14	55	28
11.04.2024	N/24/04/2-0213	9	13	47	25
17.04.2024	N/24/04/3-00167	13	16	51	29
18.04.2024	N/24/04/3-00217	11	16	53	25
24.04.2024	N/24/04/4-0128	10	14	49	26
25.04.2024	N/24/04/4-0185	9	13	55	27
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd
 Name of the Project : Jonnagiri Gold Mine
 Sample Collected by : Environmental Laboratory
 Station at & Code : A - III, Jonnagiri village
 Duration : 24 Hrs
 Issue date : 02.05.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.04.2024	N/24/04/1-0165	11	14	53	28
06.04.2024	N/24/04/2-0005	10	11	44	29
10.04.2024	N/24/04/2-0125	11	16	58	33
11.04.2024	N/24/04/2-0214	13	18	51	27
17.04.2024	N/24/04/3-00168	10	12	45	28
18.04.2024	N/24/04/3-00218	9	11	47	25
24.04.2024	N/24/04/4-0129	12	18	58	33
25.04.2024	N/24/04/4-0186	9	12	51	29
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd
 Name of the Project : Jonnagiri Gold Mine
 Sample Collected by : Environmental Laboratory
 Station at & Code : A - IV, Upparlapalli village
 Duration : 24 Hrs
 Issue date : 02.05.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.04.2024	N/24/04/1-0166	12	14	46	27
06.04.2024	N/24/04/2-0006	11	14	38	20
10.04.2024	N/24/04/2-0126	10	12	51	29
11.04.2024	N/24/04/2-0215	11	14	49	27
17.04.2024	N/24/04/3-00169	9	13	54	29
18.04.2024	N/24/04/3-00219	11	12	43	25
24.04.2024	N/24/04/4-0130	13	18	55	31
25.04.2024	N/24/04/4-0187	11	12	50	27
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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TEST REPORT

Table No. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd
 Name of the Project : Jonnagiri Gold Mine
 Sample Collected by : Environmental Laboratory
 Station at & Code : A - V, Pagadrayi village
 Duration : 24 Hrs
 Issue date : 02.05.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.04.2024	N/24/04/1-0167	9	11	53	29
06.04.2024	N/24/04/2-0007	10	12	48	25
10.04.2024	N/24/04/2-0127	11	15	40	26
11.04.2024	N/24/04/2-0216	9	12	52	28
17.04.2024	N/24/04/3-00170	10	14	41	25
18.04.2024	N/24/04/3-00220	8	12	46	27
24.04.2024	N/24/04/4-0131	9	13	57	33
25.04.2024	N/24/04/4-0188	11	16	53	28
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 6

STATISTICAL AMBIENT AIR QUALITY DATA

Project : Jonnagiri Gold Mine												
Client : M/s. Geomysore Services (india) Pvt Ltd												
Month : April, 2024												
Station Code : A I - Core Zone (ML Area)					A - II, Bollavanipalli village				A - III, Jonnagiri village			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	10	12	45	26	9	12	46	25	9	11	44	25
10%	11	13	47	27	9	13	47	25	9	11	45	26
25%	12	15	51	27	9	13	49	26	10	12	47	28
50%	14	16	53	29	10	14	52	28	11	13	51	29
75%	15	17	54	29	11	16	55	29	11	17	54	30
98%	16	20	56	34	13	16	58	29	13	18	58	33
Max.	16	20	56	35	13	16	58	29	13	18	58	33
Avg.	13	16	52	29	10	14	52	27	11	14	51	29
SD	2	2	4	3	2	2	4	2	1	3	5	3
No. of obs	8				8				8			
Station Code : A - IV, Upparlapalli village					A - V, Pagadrayi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	9	12	38	20	8	11	40	25				
10%	10	12	42	24	9	12	41	25				
25%	11	12	45	27	9	12	45	26				
50%	11	14	50	27	10	13	50	28				
75%	11	14	52	29	10	14	53	28				
98%	13	17	55	30	11	16	56	32				
Max.	13	18	55	31	11	16	57	33				
Avg.	11	14	48	27	10	13	49	28				
SD	1	2	6	3	1	2	6	3				
No. of obs	8				8							

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TEST REPORT

NOISE LEVEL DATA

Table No. 7

Report No : M001240406

Report No : MSC/24/040

Name of the Client	: M/s. Geomysore Services (india) Pvt Ltd
Name of the Project	: Jonnagiri Gold Mine
Particulars of sample collected	: Sound Levels
Sample Collected by	: Environmental Laboratory
Date of sample collection	: 25.04.2024
Date of sample receipt	: 27.04.2024
Issue Date	: 02.05.2024
Sampling & Test Method	: IS:9989

Code No.	Monitoring stations	Day			Night		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Bufferzone							
N1	Bollavanipalli village	37.0	46.9	55.6	33.2	40.6	46.0
N2	Jonnagiri village	39.0	50.8	58.0	34.0	43.3	47.5
N3	Upparlapalli village	37.2	50.2	57.0	35.0	39.4	45.2
N4	Pagadrayi village	36.0	47.6	53.0	33.8	39.6	44.0
N5	Yerragudi village	42.0	48.2	55.1	34.0	39.6	45.0
Corezone							
N6	Core zone ML Area	38.0	52.2	59.2	34.0	44.3	49.0

Permissible Limits of Ambient Noise Levels as per CPCB Guidelines

	Leq. Limit dB(A)	
	Day	Night
Industrial areas	75	70
Commercial area	65	55
Residential area	55	45

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ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 8

Name of the Client	: M/s. Geomysore Services (India) Pvt Ltd						
Name of the Project	: Jonnagiri Gold Mine, Jonnagiri, Pagadrayi & Yerragudi Villages, Tuggali Mandal, Kurnool District, Andhra Pradesh						
Particulars of sample collected	: GW1 - Boolavanipalli Bore water, GW2 - Jonnagiri Bore water GW3 - Bore water ML Area						
Sample Collected by	: Environmental Laboratory						
Date of sample collection	: 26.04.2024						
Date of sample receipt	: 27.04.2024						
Issue Date	: 04.05.2024						
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)							
Sl. No.	Lab Code	ED/24/04/4-0028	ED/24/04/4-0029	ED/24/04/4-0030	Desirable Limts	Permissible Limts	Method of Testing
	Parameters	GW1	GW2	GW3			
1	Colour (Hazen Units), Max	<1	<1	<1	5	15	IS:3025 (P-4)02021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.58	7.60	7.83	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity, NTU, Max	1.2	1.2	0.8	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity (µmhos/cm)	980.5	1906	1054	--	--	IS 3025 (P-14)
7	Total Dissolved Solids, mg/l, Max	680	1180	710	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.01	<0.01	<0.01	0.03	0.2	IS:3025(P-2)2019
9	Ammonia (as total Ammonia - N), mg/l, Max	<0.1	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)Sec 1 2022
10	Anionic Detergents (as MBAS), mg/l, Max	<0.1	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11	Barium (as Ba), mg/l, Max	0.055	0.08	0.046	0.7	0.7	IS:3025(P-2)2019
12	Boron (as B), mg/l, Max	<0.1	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca), mg/l, Max	44.08	100.20	67.33	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu), mg/l, Max	0.007	0.007	0.024	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l), mg/l, Max	136.45	261.41	181.44	250	1000	IS:3025 (P-32)1988 RA 2019
16	Fluoride (as F), mg/l, Max	0.20	0.60	0.40	1	1.5	IS:3025 (P-60)2008 RA 2019
17	Residual, Free Chlorine, mg/l, Max	<0.1	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18	Chloramines as C12, Max	<0.1	<0.1	<0.1	4	4	IS:3025(P-26)2021
19	Iron (as Fe), mg/l, Max	0.019	0.007	0.007	1.0	1.0	IS:3025 (Part-2)2019
20	Magnesium (as Mg), mg/l, Max	29.82	63.2	36.9	30	100	IS:3025 (P-46)1994 RA 2019
21	Manganese (as Mn), mg/l, Max	0.005	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22	Mineral Oil, mg/l, Max	<0.5	<0.5	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
23	Nitrates (as NO ₃), mg/l, Max	20.50	37.74	8.63	45	45	IS:3025 (P-34)Sec 1 2022
24	Phenolics (as C ₆ H ₅ OH), mg/l, Max	<0.001	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se), mg/l, Max	<0.005	0.01	<0.005	0.01	0.01	IS:3025(P-2)2019
26	Silver (as Ag), mg/l, Max	<0.005	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.01	0.07	0.07	IS:3025 (P-2)2019
28	Sulphates (as SO ₄), mg/l, Max	46.00	217.20	109.40	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30	Alkalinity (as CaCO ₃), mg/l, Max	307	416	272	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO ₃), mg/l, Max	228.00	500.00	314.00	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn), mg/l, Max	0.006	<0.005	0.087	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN), mg/l, Max	<0.01	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb), mg/l, Max	<0.005	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg), mg/l, Max	<0.0005	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni), mg/l, Max	<0.001	<0.001	0.014	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As), mg/l, Max	<0.002	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39	Total Chromium (as Cr), mg/l, Max	<0.001	<0.001	<0.001	-	-	IS:3025 (P-2)2019
40	Escherichia coli/100ml	Not Detected	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliforms/100ml	Not Detected	Not Detected	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

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MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025



TEST REPORT

Table No. 9

Name of the Client	: M/s. Geomysore Services (India) Pvt Ltd					
Name of the Project	: Jonnagiri Gold Mine, Jonnagiri, Pagadrayi & Yerragudi Villages, Tuggali Mandal, Kurnool District, Andhra Pradesh					
Particulars of sample collected	: GW4 - Upparlapalli Bore water, GW5 - Pagadravi Bore water					
Sample Collected by	: Environmental Laboratory					
Date of sample collection	: 26.04.2024					
Date of sample receipt	: 27.04.2024					
Issue Date	: 04.05.2024					
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Sl. No.	Lab Code	ED/24/04/4-0031	ED/24/04/4-0032	Desirable Limts	Permissible Limts	Method of Testing
	Parameters	Results				
		GW4	GW5			
1	Colour (Hazen Units), Max	<1	<1	5	15	IS:3025 (P-4)02021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.70	8.00	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU, Max	1.5	1.2	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity (µmhos/cm)	1408.0	1064.0	--	--	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l,Max	960	690	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	0.010	0.011	0.03	0.2	IS:3025(P-2)2019
9	Ammonia (as total Ammonia - N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)Sec 1 2022
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11	Barium (as Ba), mg/l, Max	0.031	0.013	0.7	0.7	IS:3025(P-2)2019
12	Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	56.11	44.88	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	0.01	0.009	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	186.44	171.44	250	1000	IS:3025 (P-32)1988 RA 2019
16	Fluoride (as F),mg/l, Max	0.90	0.60	1	1.5	IS:3025 (P-60)2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18	Chloramines as C12, Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19	Iron (as Fe),mg/l, Max	<0.005	0.006	1.0	1.0	IS:3025 (Part-2)2019
20	Magnesium (as Mg)mg/l, Max	32.86	32.56	30	100	IS:3025 (P-46)1994 RA 2019
21	Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22	Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 202
23	Nitrates (as NO ₃),mg/l, Max	19.68	8.29	45	45	IS:3025 (P-34)Sec 1 2022
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26	Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28	Sulphates (as SO ₄),mg/l, Max	142.60	75.40	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30	Alkalinity (as CaCO ₃) mg/l, Max	436	396	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l, Max	270.00	246.00	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l,Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l,Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	-	-	IS:3025 (P-2)2019
40	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliforms/100ml	Not Detected	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"


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ENVIRONMENTAL MONITORING REPORT

May, 2024

Project : Jonnagiri Gold Mine
Jonnagiri, Pagadrayi & Yerragudi Villages
Tuggali Mandal, Kurnool District, Andhra Pradesh

Lessee

M/s. Geomysore Services (India) Pvt Ltd.,
Bangalore, Karnataka

ENVIRONMENTAL LABORATORY
(Unit of Mineral Engineering Services)
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TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - I, Core Zone (ML Area)					
Duration : 24 Hrs					
Issue date : 01.06.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
08.05.2024	N/24/05/2-0119	11	12	54	27
09.05.2024	N/24/05/2-0182	9	11	48	25
17.05.2024	N/24/05/4-0175	12	17	38	17
18.05.2024	N/24/05/4-0208	10	12	54	28
20.05.2024	N/24/05/4-0278	11	14	40	26
21.05.2024	N/24/05/4-0311	9	11	46	24
29.05.2024	N/24/05/5-0179	10	14	37	22
30.05.2024	N/24/05/5-0208	7	9	55	32
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - II, Bollavanipalli village					
Duration : 24 Hrs					
Issue date : 01.06.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
08.05.2024	N/24/05/2-0120	12	14	48	24
09.05.2024	N/24/05/2-0183	12	18	54	25
17.05.2024	N/24/05/4-0176	11	16	52	27
18.05.2024	N/24/05/4-0209	10	14	40	22
20.05.2024	N/24/05/4-0279	9	10	48	28
21.05.2024	N/24/05/4-0312	10	14	53	27
29.05.2024	N/24/05/5-0180	11	15	45	23
30.05.2024	N/24/05/5-0209	12	14	48	25
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - III, Jonnagiri village					
Duration : 24 Hrs					
Issue date : 01.06.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
08.05.2024	N/24/05/2-0121	11	13	51	27
09.05.2024	N/24/05/2-0184	7	11	56	29
17.05.2024	N/24/05/4-0177	11	12	40	25
18.05.2024	N/24/05/4-0210	10	12	43	23
20.05.2024	N/24/05/4-0280	9	10	38	18
21.05.2024	N/24/05/4-0313	7	9	40	21
29.05.2024	N/24/05/5-0181	11	13	58	35
30.05.2024	N/24/05/5-0210	11	13	52	29
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - IV, Upparlapalli village Duration : 24 Hrs Issue date : 01.06.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
08.05.2024	N/24/05/2-0122	12	18	50	27
09.05.2024	N/24/05/2-0185	12	14	36	20
17.05.2024	N/24/05/4-0178	10	11	36	17
18.05.2024	N/24/05/4-0211	7	9	57	31
20.05.2024	N/24/05/4-0281	9	10	35	22
21.05.2024	N/24/05/4-0314	10	12	50	25
29.05.2024	N/24/05/5-0182	12	14	41	22
30.05.2024	N/24/05/5-0211	9	11	39	18
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - V, Pagadrayi village					
Duration : 24 Hrs					
Issue date : 01.06.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
08.05.2024	N/24/05/2-0123	11	16	49	23
09.05.2024	N/24/05/2-0186	13	13	50	26
17.05.2024	N/24/05/4-0179	11	14	30	20
18.05.2024	N/24/05/4-0212	10	11	48	25
20.05.2024	N/24/05/4-0282	9	10	39	23
21.05.2024	N/24/05/4-0315	11	12	45	24
29.05.2024	N/24/05/5-0183	10	13	55	28
30.05.2024	N/24/05/5-0212	11	15	47	25
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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TEST REPORT

Table No. 6

STATISTICAL AMBIENT AIR QUALITY DATA

Project : Jonnagiri Gold Mine												
Client : M/s. Geomysore Services (india) Pvt Ltd												
Month : May, 2024												
Station Code : A I - Core Zone (ML Area)					A - II, Bollavanipalli village				A - III, Jonnagiri village			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	7	9	37	17	9	10	40	22	7	9	38	18
10%	8	10	38	21	10	13	44	23	7	10	39	20
25%	9	11	40	24	10	14	47	24	9	11	40	23
50%	10	12	47	26	11	14	48	25	11	12	47	26
75%	11	14	54	27	12	15	52	27	11	13	53	29
98%	12	17	55	31	12	18	54	28	11	13	58	34
Max.	12	17	55	32	12	18	54	28	11	13	58	35
Avg.	10	13	47	25	11	14	49	25	10	12	47	26
SD	2	2	7	4	1	2	5	2	2	2	8	5
No. of obs	8				8				8			
Station Code : A - IV, Upparlapalli village					A - V, Pagadrayi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	7	9	35	17	9	10	30	20				
10%	8	10	36	18	10	11	36	22				
25%	9	11	36	20	10	12	44	23				
50%	10	12	40	22	11	13	48	25				
75%	12	14	50	26	11	14	49	25				
98%	12	17	56	30	13	16	54	28				
Max.	12	18	57	31	13	16	55	28				
Avg.	10	12	43	23	11	13	45	24				
SD	2	3	8	5	1	2	8	2				
No. of obs	8				8							

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ENVIRONMENTAL MONITORING REPORT

June, 2024

Project : Jonnagiri Gold Mine
Jonnagiri, Pagadrayi & Yerragudi Villages
Tuggali Mandal, Kurnool District, Andhra Pradesh

Lessee

M/s. Geomysore Services (India) Pvt Ltd.,
Bangalore, Karnataka

ENVIRONMENTAL LABORATORY
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St Thomas Town Post, Bangalore- 560 084, Karnataka,

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ENVIRONMENTAL LABORATORY

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TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - I, Core Zone (ML Area)					
Duration : 24 Hrs					
Issue date : 03.07.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.06.2024	N/24/06/2-0058	8	11	42	23
06.06.2024	N/24/06/2-0080	10	16	36	19
14.06.2024	N/24/06/4-0167	9	10	58	31
15.06.2024	N/24/06/4-0204	6	9	56	29
17.06.2024	N/24/06/5-0019	12	13	51	27
18.06.2024	N/24/06/5-0060	10	12	52	26
26.06.2024	N/24/06/5-0518	12	13	48	25
27.06.2024	N/24/06/5-0558	11	14	45	26
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - II, Bollavanipalli village Duration : 24 Hrs Issue date : 03.07.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.06.2024	N/24/06/2-0059	7	10	38	18
06.06.2024	N/24/06/2-0081	11	13	42	27
14.06.2024	N/24/06/4-0168	8	17	49	26
15.06.2024	N/24/06/4-0205	11	15	53	27
17.06.2024	N/24/06/5-0020	7	12	54	31
18.06.2024	N/24/06/5-0061	10	14	37	26
26.06.2024	N/24/06/5-0519	8	13	49	27
27.06.2024	N/24/06/5-0559	11	14	33	18
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - III, Jonnagiri village					
Duration : 24 Hrs					
Issue date : 03.07.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.06.2024	N/24/06/2-0060	8	12	35	21
06.06.2024	N/24/06/2-0082	12	13	46	24
14.06.2024	N/24/06/4-0169	8	12	51	22
15.06.2024	N/24/06/4-0206	11	14	34	20
17.06.2024	N/24/06/5-0021	8	12	48	27
18.06.2024	N/24/06/5-0062	11	13	58	33
26.06.2024	N/24/06/5-0520	7	10	50	35
27.06.2024	N/24/06/5-0560	10	14	54	27
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - IV, Upparlapalli village					
Duration : 24 Hrs					
Issue date : 03.07.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.06.2024	N/24/06/2-0061	10	15	40	22
06.06.2024	N/24/06/2-0083	12	21	51	27
14.06.2024	N/24/06/4-0170	8	17	53	26
15.06.2024	N/24/06/4-0207	10	13	54	33
17.06.2024	N/24/06/5-0022	9	15	35	27
18.06.2024	N/24/06/5-0063	10	19	48	28
26.06.2024	N/24/06/5-0521	7	11	53	26
27.06.2024	N/24/06/5-0561	6	14	42	22
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - V, Pagadrayi village					
Duration : 24 Hrs					
Issue date : 03.07.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.06.2024	N/24/06/2-0062	8	11	38	20
06.06.2024	N/24/06/2-0084	7	12	49	22
14.06.2024	N/24/06/4-0171	9	16	45	25
15.06.2024	N/24/06/4-0208	10	15	50	33
17.06.2024	N/24/06/5-0023	8	14	50	27
18.06.2024	N/24/06/5-0064	7	13	40	22
26.06.2024	N/24/06/5-0522	9	10	37	26
27.06.2024	N/24/06/5-0562	8	15	40	25
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 6

STATISTICAL AMBIENT AIR QUALITY DATA

Project : Jonnagiri Gold Mine												
Client : M/s. Geomysore Services (india) Pvt Ltd												
Month : June, 2024												
Station Code : A I - Core Zone (ML Area)					A - II, Bollavanipalli village				A - III, Jonnagiri village			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	6	9	36	19	7	10	33	18	7	10	34	20
10%	7	10	40	22	7	11	36	18	8	11	35	21
25%	9	11	44	25	8	13	38	24	8	12	43	22
50%	10	13	50	26	9	14	46	27	9	13	49	26
75%	11	13	53	28	11	14	50	27	11	13	52	29
98%	12	16	58	31	11	17	54	30	12	14	57	35
Max.	12	16	58	31	11	17	54	31	12	14	58	35
Avg.	10	12	49	26	9	14	44	25	9	13	47	26
SD	2	2	7	4	2	2	8	5	2	1	9	6
No. of obs	8				8				8			
Station Code : A - IV, Upparlapalli village					A - V, Pagadrayi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	6	11	35	22	7	10	37	20				
10%	7	12	39	22	7	11	38	21				
25%	8	14	42	25	8	12	40	22				
50%	10	15	50	27	8	14	43	25				
75%	10	18	53	27	9	15	49	26				
98%	12	21	54	32	10	16	50	32				
Max.	12	21	54	33	10	16	50	33				
Avg.	9	16	47	26	8	13	44	25				
SD	2	3	7	4	1	2	6	4				
No. of obs	8				8							

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TEST REPORT

Table No.7

Name of the Client		: M/s. Geomysore Services (india) Pvt Ltd			
Name of the Project		: Jonnagiri Gold Mine			
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)			
Particulars of sample collected		: SW1 - Jonnagiri Cherau water, SW2 - Pagadravi Cherau water			
Date of sample collection		: 18.06.2024			
Issue Date		: 26.06.2024			
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)					
Lab Code		N/24/06/4-0242	N/24/06/4-0243	Limits For Stream Water Standards	Method of Testing
Sl.No.	Samples Code	SW1	SW2		
	Parameters	Results			
1	Colour (Hazen Units), Max	<1	<1	300	IS:3025(Part-4)2021
2	pH	6.94	7.12	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l, Max	5.6	5.2	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil & Greease, mg/l	<0.1	<0.1	0.1	IS:3025(Part 39)2021
5	Total Dissolved Solids (mg/l), Max	850	760	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	11.41	9.54	50	IS:3025(Part-34)2024
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	<0.005	1.5	IS:3025(Part-2) 2019
9	Chloride (as Cl),mg/l, Max	233.06	202.86	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	0.2	<0.1	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	<0.005	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates as SO ₄ (mg/l), Max	92.5	72.64	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	<0.01	0.05	IS:3025(P-27) Sec 1 2021
18	Lead (as Pb) mg/l, Max	<0.005	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<<0.002	<<0.002	0.2	IS:3025(P-2) 2019
20	Chromium (as Cr ⁶⁺), mg/l, Max	<0.03	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3.0	<3.0	3	IS:3025(P-44) 2014
22	Total Coliform, MPN/100ml	6	11	5000	IS:1622:1981

"END OF REPORT"

BINU MANI

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ENVIRONMENTAL MONITORING REPORT

July, 2024

Project : Jonnagiri Gold Mine

**Jonnagiri, Pagadrayi & Yerragudi Villages
Tuggali Mandal, Kurnool District, Andhra Pradesh**

Lessee

**M/s. Geomysore Services (India) Pvt Ltd.,
Bangalore, Karnataka**

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services)

(Accredited by NABL &, MOEF&CC Under E(P) 1986)

#948, 2nd Cross, Kammanahalli Main Road,

St Thomas Town Post, Bangalore- 560 084, Karnataka,

LIST OF TABLES

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TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - I, Core Zone (ML Area) Duration : 24 Hrs Issue date : 01.08.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
03.07.2024	N/24/07/1-0132	9	13	36	19
04.07.2024	N/24/07/1-0180	9	15	45	26
12.07.2024	N/24/07/03-0149	9	11	53	26
13.07.2024	N/24/07/03-0208	13	18	46	22
15.07.2024	N/24/07/4-0017	10	11	43	26
16.07.2024	N/24/07/4-0069	8	12	52	24
26.07.2024	N/24/07/5-0171	9	12	47	23
27.07.2027	N/24/07/5-0213	9	18	38	17
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - II, Bollavanipalli village Duration : 24 Hrs Issue date : 01.08.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
03.07.2024	N/24/07/1-0133	7	15	56	27
04.07.2024	N/24/07/1-0181	8	14	50	26
12.07.2024	N/24/07/03-0150	8	11	41	24
13.07.2024	N/24/07/03-0209	11	14	34	18
15.07.2024	N/24/07/4-0018	10	13	50	24
16.07.2024	N/24/07/4-0070	7	10	52	22
26.07.2024	N/24/07/5-0172	14	15	49	26
27.07.2027	N/24/07/5-0214	12	15	39	18
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - III, Jonnagiri village Duration : 24 Hrs Issue date : 01.08.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
03.07.2024	N/24/07/1-0134	10	13	45	25
04.07.2024	N/24/07/1-0182	8	12	50	26
12.07.2024	N/24/07/03-0151	13	18	43	21
13.07.2024	N/24/07/03-0210	11	15	51	25
15.07.2024	N/24/07/4-0019	11	14	46	25
16.07.2024	N/24/07/4-0071	11	13	53	29
26.07.2024	N/24/07/5-0173	12	13	55	27
27.07.2027	N/24/07/5-0215	9	12	53	25
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - IV, Upparlapalli village Duration : 24 Hrs Issue date : 01.08.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
03.07.2024	N/24/07/1-0135	10	11	31	19
04.07.2024	N/24/07/1-0183	6	9	45	24
12.07.2024	N/24/07/03-0152	7	9	40	22
13.07.2024	N/24/07/03-0211	10	16	36	22
15.07.2024	N/24/07/4-0020	10	11	50	27
16.07.2024	N/24/07/4-0072	13	15	36	18
26.07.2024	N/24/07/5-0174	11	15	44	23
27.07.2027	N/24/07/5-0216	12	16	30	19
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - V, Pagadrayi village Duration : 24 Hrs Issue date : 01.08.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
03.07.2024	N/24/07/1-0136	7	9	48	26
04.07.2024	N/24/07/1-0184	11	15	44	25
12.07.2024	N/24/07/03-0153	10	12	35	22
13.07.2024	N/24/07/03-0212	10	16	44	25
15.07.2024	N/24/07/4-0021	7	9	38	19
16.07.2024	N/24/07/4-0073	9	9	50	27
26.07.2024	N/24/07/5-0175	10	11	34	19
27.07.2027	N/24/07/5-0217	7	11	50	26
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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TEST REPORT

Table No. 6

STATISTICAL AMBIENT AIR QUALITY DATA

Project : Jonnagiri Gold Mine												
Client : M/s. Geomysore Services (india) Pvt Ltd												
Month : July, 2024												
Station Code : A I - Core Zone (ML Area)					A - II, Bollavanipalli village				A - III, Jonnagiri village			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	8	11	36	17	7	10	34	18	8	12	43	21
10%	9	11	37	18	7	11	38	18	9	12	44	24
25%	9	12	42	21	8	13	41	21	10	13	46	25
50%	9	13	46	24	9	14	50	24	11	13	51	25
75%	9	16	48	26	11	15	51	26	11	14	53	26
98%	13	18	53	26	14	15	55	27	13	18	55	29
Max.	13	18	53	26	14	15	56	27	13	18	55	29
Avg.	10	14	45	23	10	13	46	23	11	14	50	25
SD	2	3	6	3	3	2	8	4	2	2	4	2
No. of obs	8				8				8			
Station Code : A - IV, Upparlapalli village					A - V, Pagadrayi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	6	9	30	18	7	9	34	19				
10%	7	9	31	19	7	9	35	19				
25%	9	11	35	19	7	9	37	21				
50%	10	13	38	22	10	11	44	25				
75%	11	15	44	23	10	13	49	26				
98%	13	16	49	27	11	16	50	27				
Max.	13	16	50	27	11	16	50	27				
Avg.	10	13	39	22	9	12	43	24				
SD	2	3	7	3	2	3	6	3				
No. of obs	8				8							

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TEST REPORT

NOISE LEVEL DATA

Table No. 7

Report No : ELMES0142407

Name of the Client		: M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project		: Jonnagiri Gold Mine					
Particulars of sample collected		: Sound Levels					
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)					
Date of sample collection		: 12.07.2024					
Date of sample receipt		: 13.07.2024					
Issue Date		: 01.08.2024					
Sampling & Test Method		: IS:9989					
Code No.	Monitoring stations	Day			Night		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Bufferzone							
N1	Bollavanipalli village	36.0	45.3	53.2	33.2	39.0	42.5
N2	Jonnagiri village	37.0	48.7	54.0	34.0	41.4	45.0
N3	Upparlapalli village	36.8	46.5	52.8	35.0	38.5	43.0
N4	Pagadrayi village	35.0	45.3	51.0	34.0	39.9	45.0
N5	Yerragudi village	37.0	46.2	50.0	34.0	39.2	44.0
Corezone							
N6	Core zone ML Area	38.0	54.6	61.0	34.0	43.1	47.8
<u>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</u>							
		Leq. Limit dB(A)					
		Day	Night				
Industrial areas		75	70				
Commercial area		65	55				
Residential area		55	45				

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TEST REPORT

Table No. 8

Name of the Client		: M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project		: Jonnagiri Gold Mine, Jonnagiri, Pagadrayi & Yerragudi Villages, Tuggali Mandal, Kurnool District, Andhra Pradesh					
Particulars of sample collected		: GW1 - Boolavanipalli Bore water, GW2 - Jonnagiri Bore water GW3 - Bore water ML Area					
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)					
Date of sample collection		: 12.07.2024					
Date of sample receipt		: 13.07.2024					
Issue Date		: 24.07.2024					
Ref		: IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
	Lab Code	N24/07/2-0121	N24/07/2-0122	N24/07/2-0123	Desirable Limts	Permissible Limts	Method of Testing
Sl. No.	Parameters	Results					
		GW1	GW2	GW3			
1	Colour (Hazen Units), Max	<1	<1	<1	5	15	IS:3025 (P-4)02021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.11	6.59	7.24	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU, Max	0.8	2.1	1.1	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity (µmhos/cm)	1000.0	1560	1100	—	—	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l,Max	680	950	680	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.005	<0.005	<0.005	0.03	0.2	IS:3025(P-2)2019
9	Ammonia (as total Ammonia - N),mg/l, Max	<0.1	<0.1	<0.1	0.5	0.5	IS:3025(Part-34)1988 RA 2019
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11	Barium (as Ba), mg/l, Max	<0.005	<0.005	<0.005	0.7	0.7	IS:3025(P-2)2019
12	Boron (as B), mg/l, Max	<0.1	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	134.90	152.30	96.19	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	117.28	377.54	152.52	250	1000	IS:3025 (P-32)1988 RA 2019
16	Fluoride (as F),mg/l, Max	0.50	0.80	0.40	1	1.5	APHA 4500F
17	Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18	Chloramines as C12, Max	<0.1	<0.1	<0.1	4	4	IS:3025(P-26)2021
19	Iron (as Fe),mg/l, Max	<0.005	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20	Magnesium (as Mg)mg/l, Max	10.90	36.88	29.16	30	100	IS:3025 (P-46)1994 RA 2019
21	Manganese (as Mn),mg/l, Max	<0.001	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22	Mineral Oil,mg/l, Max	<0.5	<0.5	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃),mg/l, Max	12.50	21.60	7.50	45	45	IS:3025(Part-34)1988 RA 2019
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l, Max	<0.005	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26	Silver (as Ag), mg/l, Max	<0.005	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28	Sulphates (as SO ₄),mg/l, Max	128.00	142.50	59.30	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l, Max	<0.01	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30	Alkalinity (as CaCO ₃) mg/l, Max	215	205	120	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l, Max	381.48	540.00	360.00	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l, Max	<0.01	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l,Max	<0.001	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l,Max	<0.002	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	<0.001	-	-	IS:3025 (P-2)2019
40	Escherichia coli/100ml	Not Detected	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliforms/100ml	Not Detected	Not Detected	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

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TEST REPORT

Table No. 9

Name of the Client		: M/s. Geomysore Services (india) Pvt Ltd				
Name of the Project		: Jonnagiri Gold Mine, Jonnagiri, Pagadrayi & Yerragudi Villages, Tuggali Mandal, Kurnool District, Andhra Pradesh				
Particulars of sample collected		: GW4 - Upparlapalli Bore water, GW5 - Pagadravi Bore water				
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)				
Date of sample collection		: 12.07.2024				
Date of sample receipt		: 13.07.2024				
Issue Date		: 24.07.2024				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
	Lab Code	N24/07/2-0124	N24/07/2-0125	Desirable Limts	Permissible Limts	Method of Testing
Sl. No.	Parameters	Results				
		GW4	GW5			
1	Colour (Hazen Units), Max	<1	<1	5	15	IS:3025 (P-4)02021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.34	8.05	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU, Max	2.4	1.8	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity (µmhos/cm)	1900.0	1150.0	—	—	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l,Max	1100	710	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.005	<0.005	0.03	0.2	IS:3025(P-2)2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025(Part-34)1988 RA 2019
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11	Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS:3025(P-2)2019
12	Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	125.91	92.98	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	381.72	197.43	250	1000	IS:3025 (P-32)1988 RA 2019
16	Fluoride (as F),mg/l, Max	0.60	0.40	1	1.5	APHA 4500F
17	Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18	Chloramines as C12, Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19	Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20	Magnesium (as Mg)mg/l, Max	50.07	17.98	30	100	IS:3025 (P-46)1994 RA 2019
21	Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22	Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃),mg/l, Max	24.60	4.80	45	45	IS:3025(Part-34)1988 RA 2019
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26	Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28	Sulphates (as SO ₄),mg/l, Max	118.90	64.80	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30	Alkalinity (as CaCO ₃) mg/l, Max	315	285	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l, Max	520.00	306.00	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l,Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l,Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	-	-	IS:3025 (P-2)2019
40	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliforms/100ml	Not Detected	Not Detected			IS:15185:2016 RA 2021

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TEST REPORT

Table No. 10

Name of the Client		: M/s. Geomysore Services (india) Pvt Ltd			
Name of the Project		: Jonnagiri Gold Mine			
Particulars of sample collected		: SW1 - Jonnagiri Cherau water SW2 - Pagadravi Cherau water			
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)			
Date of sample collection		: 12.07.2024			
Issue Date		: 24.07.2024			
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)					
Sl.No	Lab Code	N24/07/2-0119	N24/07/2-0120	Limits For Stream Water Standards	Method of Testing
	Samples Code	SW1	SW2		
	Parameters	Results			
1	Colour (Hazen Units), Max	<1	<1	300	IS:3025(Part-4)2021
2	pH	7.05	7.24	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l, Max	5.4	5.1	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil & Grease, mg/l	<0.1	<0.1	0.1	IS:3025(Part 39)2021
5	Total Dissolved Solids (mg/l), Max	810	645	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	13.50	5.60	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	<0.005	1.5	IS:3025(Part-2) 2019
9	Chloride (as Cl),mg/l, Max	238.1	303.5	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	0.3	0.2	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	<0.005	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates as SO ₄ (mg/l), Max	105	64.8	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	<0.01	0.05	IS:3025(P-27) Sec 1 2021
18	Lead (as Pb) mg/l, Max	<0.005	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	<0.002	0.2	IS:3025(P-2) 2019
20	Chromium (as Cr ⁶⁺), mg/l, Max	<0.03	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	3	IS:3025(P-44) 2014
22	Total Coliform, MPN/100ml	17	32	5000	IS:1622:1981

BINU MANI

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TEST REPORT

Table No. 11

GROUND WATER LEVEL

Name of the Client		: M/s. Geomysore Services (india) Pvt Ltd						
Name of the Project		: Jonnagiri Gold Mine						
Sample Collected by		: Environmental Laboratory						
		(Unit of Mineral Engineering Services)						
Month		: July, 2024						
Code No.	Location	Latitude			Longitude			Water Level Below Ground Level BGL (m)
		D	M	S	D	M	S	
GW1	Balavanpalli Bore well	15	14	29.3	77	36	32.1	7.40
GW2	Jonnagiri Bore well	15	13	59	77	34	27	11.20
GW3	Bore well Near within ML Area	15	14	40.6	77	35	37.3	12.00
GW4	Upparlapalli Bore well	15	13	19.5	77	37	13.3	3.50
GW5	Pagadravi Bore well	15	15	42.5	77	35	21.4	7.70

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ENVIRONMENTAL MONITORING REPORT

August, 2024

Project : Jonnagiri Gold Mine

**Jonnagiri, Pagadrayi & Yerragudi Villages
Tuggali Mandal, Kurnool District, Andhra Pradesh**

Lessee

**M/s. Geomysore Services (India) Pvt Ltd.,
Bangalore, Karnataka**

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services)

(Accredited by NABL &, MOEF&CC Under E(P) 1986)

#948, 2nd Cross, Kammanahalli Main Road,
St Thomas Town Post, Bangalore- 560 084, Karnataka,

LIST OF TABLES

SL. NO.	PARTICULARS	TABLE NO.
1	Test Report of Ambient Air Quality	1 to 5
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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - I, Core Zone (ML Area)					
Duration : 24 Hrs					
Issue date : 05.09.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.08.2024	N/24/08/3-0009	9	11	48	24
06.08.2024	N/24/08/3-0029	10	12	52	28
09.08.2024	N/24/08/3-0135	6	9	35	18
13.08.2024	N/24/08/4-0084	5	9	36	22
23.08.2024	N/24/08/4-0419	7	10	40	27
24.08.2024	N/24/08/5-0042	10	11	58	32
26.08.2024	N/24/08/5-0106	11	12	53	27
27.08.2024	N/24/08/5-0151	9	10	43	23
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

Arshiya Kousar
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Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - II, Bollavanipalli village					
Duration : 24 Hrs					
Issue date : 05.09.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.08.2024	N/24/08/3-0010	6	9	49	28
06.08.2024	N/24/08/3-0030	5	11	37	23
12.08.2024	N/24/08/4-0030	9	10	45	26
13.08.2024	N/24/08/4-0085	11	13	43	24
23.08.2024	N/24/08/4-0420	7	9	50	27
24.08.2024	N/24/08/5-0043	10	12	42	24
26.08.2024	N/24/08/5-0107	11	13	38	22
27.08.2024	N/24/08/5-0152	6	10	44	26
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - III, Jonnagiri village					
Duration : 24 Hrs					
Issue date : 05.09.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.08.2024	N/24/08/3-0011	10	11	35	19
06.08.2024	N/24/08/3-0031	9	12	40	22
12.08.2024	N/24/08/4-0031	10	13	48	29
13.08.2024	N/24/08/4-0086	11	10	33	21
23.08.2024	N/24/08/4-0421	7	11	42	28
24.08.2024	N/24/08/5-0044	9	10	50	28
26.08.2024	N/24/08/5-0108	6	11	30	18
27.08.2024	N/24/08/5-0153	9	13	45	27
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - IV, Upparlapalli village					
Duration : 24 Hrs					
Issue date : 05.09.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
09.08.2024	N/24/08/3-0136	5	9	38	25
10.08.2024	N/24/08/3-0219	10	11	41	28
12.08.2024	N/24/08/4-0032	6	10	53	28
13.08.2024	N/24/08/4-0087	8	13	52	27
23.08.2024	N/24/08/4-0422	9	9	40	22
24.08.2024	N/24/08/5-0045	10	11	36	20
26.08.2024	N/24/08/5-0109	7	10	33	22
27.08.2024	N/24/08/5-0154	10	12	27	21
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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TEST REPORT

Table No. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - V, Pagadrayi village Duration : 24 Hrs Issue date : 05.09.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
05.08.2024	N/24/08/3-0012	9	9	30	20
06.08.2024	N/24/08/3-0032	8	10	42	25
12.08.2024	N/24/08/4-0033	10	13	36	23
13.08.2024	N/24/08/4-0088	7	9	40	26
23.08.2024	N/24/08/4-0423	9	11	38	19
24.08.2024	N/24/08/5-0046	6	10	33	20
26.08.2024	N/24/08/5-0110	8	9	41	22
27.08.2024	N/24/08/5-0155	10	11	50	29
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 6

STATISTICAL AMBIENT AIR QUALITY DATA

Project : Jonnagiri Gold Mine												
Client : M/s. Geomysore Services (india) Pvt Ltd												
Month : August, 2024												
Station Code : A I - Core Zone (ML Area)					A - II, Bollavanipalli village				A - III, Jonnagiri village			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	5	9	35	18	5	9	37	22	6	10	30	18
10%	6	9	36	21	6	9	38	23	7	10	32	19
25%	7	10	39	23	6	10	41	24	9	11	35	21
50%	9	11	46	26	8	11	44	25	9	11	41	25
75%	10	11	52	27	10	12	46	26	10	12	46	28
98%	11	12	57	31	11	13	50	28	11	13	50	29
Max.	11	12	58	32	11	13	50	28	11	13	50	29
Avg.	8	11	46	25	8	11	44	25	9	11	40	24
SD	2	1	8	4	2	2	5	2	2	1	7	4
No. of obs	8				8				8			
Station Code : A - IV, Upparlapalli village					A - V, Pagadrayi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	5	9	27	20	6	9	30	19				
10%	6	9	31	21	7	9	32	20				
25%	7	10	35	22	8	9	35	20				
50%	9	11	39	24	9	10	39	23				
75%	10	11	44	27	9	11	41	25				
98%	10	13	53	28	10	13	49	29				
Max.	10	13	53	28	10	13	50	29				
Avg.	8	11	40	24	8	10	39	23				
SD	2	1	9	3	1	1	6	3				
No. of obs	8				8							

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

Accredited by NABL (TC-6172) Recognised by BIS, FSSAI & CPCB:MoEFCC under E(P) A 1986 Vide
Gazette Notification No. legal 42(3)/2022 dated 22.07.2022 Recognition valid upto 23.05.2023

ISO 45001:2018 Certified Laboratory



TC-6172

TEST REPORT

Table No. 7

Name of the Client		: M/s. Geomysore Services (india) Pvt Ltd			
Name of the Project		: Jonnagiri Gold Mine			
Particulars of sample collected		: SW1 - Jonnagiri Cherau water SW2 - Pagadravi Cherau water			
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)			
Date of sample collection		: 06.08.2024			
Issue Date		: 19.08.2024			
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)					
Sl.No	Lab Code	N/24/08/02-0055	N/24/08/02-0056	Limits For Stream Water Standards	Method of Testing
	Samples Code	SW1	SW2		
	Parameters	Results			
1	Colour (Hazen Units), Max	10	20	300	IS:3025(Part-4)2021
2	pH	8.20	8.38	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l, Max	5.3	5.5	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil & Grease, mg/l	<0.1	<0.1	0.1	IS:3025(Part 39)2021
5	Total Dissolved Solids (mg/l), Max	140	84	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	8.50	4.20	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	<0.005	1.5	IS:3025(Part-2) 2019
9	Chloride (as Cl),mg/l, Max	10	10	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	0.48	0.38	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	<0.005	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates as SO ₄ (mg/l), Max	20	18	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	<0.01	0.05	IS:3025(P-27) Sec 1 2021
18	Lead (as Pb) mg/l, Max	<0.005	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	<0.002	0.2	IS:3025(P-2) 2019
20	Chromium (as Cr ⁶⁺), mg/l, Max	<0.03	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	3	IS:3025(P-44) 2014
22	Total Coliform, MPN/100ml	80	94	5000	IS:1622:1981

G. Jimm

BINU MANI
Technical Manager

Govt. Analyst / Authorised Signatory

Arshiy Kousar
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ENVIRONMENTAL MONITORING REPORT

September, 2024

Project : Jonnagiri Gold Mine

Jonnagiri, Pagadrayi & Yerragudi Villages

Tuggali Mandal, Kurnool District, Andhra Pradesh

Lessee

**M/s. Geomysore Services (India) Pvt Ltd.,
Bangalore, Karnataka**

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services)

(Accredited by NABL &, MOEF&CC Under E(P) 1986)

#948, 2nd Cross, Kammanahalli Main Road,
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TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - I, Core Zone (ML Area)					
Duration : 24 Hrs					
Issue date : 03.10.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
04.09.2024	N/24/09/3-0106	7	11	54	32
05.09.2024	N/24/09/3-0196	8	10	48	25
13.09.2024	N/24/09/4-0177	11	15	58	30
14.09.2024	N/24/09/4-0276	13	14	45	26
16.09.2024	N/24/09/5-0032	6	11	38	22
17.09.2024	N/24/09/5-0092	10	13	48	30
23.09.2024	N/24/09/6-0026	11	13	53	30
24.09.2024	N/24/09/6-0078	6	10	38	18
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

M. Sachin Raju
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TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd					
Name of the Project : Jonnagiri Gold Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - II, Bollavanipalli village					
Duration : 24 Hrs					
Issue date : 03.10.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
04.09.2024	N/24/09/3-0107	10	14	48	25
05.09.2024	N/24/09/3-0197	10	11	53	27
13.09.2024	N/24/09/4-0178	6	12	35	18
14.09.2024	N/24/09/4-0277	5	10	50	28
16.09.2024	N/24/09/5-0033	8	10	45	25
17.09.2024	N/24/09/5-0093	11	12	55	27
23.09.2024	N/24/09/6-0027	8	10	56	29
24.09.2024	N/24/09/6-0079	11	13	45	26
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - III, Jonnagiri village Duration : 24 Hrs Issue date : 03.10.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
04.09.2024	N/24/09/3-0108	8	10	45	22
05.09.2024	N/24/09/3-0198	7	9	44	24
13.09.2024	N/24/09/4-0179	6	8	47	26
14.09.2024	N/24/09/4-0278	6	9	55	30
16.09.2024	N/24/09/5-0034	8	13	47	26
17.09.2024	N/24/09/5-0094	8	10	54	27
23.09.2024	N/24/09/6-0028	8	13	50	27
24.09.2024	N/24/09/6-0080	10	14	48	25
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

M. Sachin Raju
M.SACHIN RAJU
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(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - IV, Upparlapalli village Duration : 24 Hrs Issue date : 03.10.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
04.09.2024	N/24/09/3-0109	12	14	50	27
05.09.2024	N/24/09/3-0199	4	9	50	27
13.09.2024	N/24/09/4-0180	7	12	37	25
14.09.2024	N/24/09/4-0279	5	11	45	27
16.09.2024	N/24/09/5-0035	10	11	56	29
17.09.2024	N/24/09/5-0095	5	11	45	24
23.09.2024	N/24/09/6-0029	9	10	40	22
24.09.2024	N/24/09/6-0081	8	10	45	24
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

M. Sachin Raju
M.SACHIN RAJU
T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Geomysore Services (india) Pvt Ltd Name of the Project : Jonnagiri Gold Mine Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A - V, Pagadrayi village Duration : 24 Hrs Issue date : 03.10.2024 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
04.09.2024	N/24/09/3-0110	6	12	51	25
05.09.2024	N/24/09/3-0200	6	11	37	21
13.09.2024	N/24/09/4-0181	7	12	32	20
14.09.2024	N/24/09/4-0280	10	10	48	29
16.09.2024	N/24/09/5-0036	11	12	53	30
17.09.2024	N/24/09/5-0096	10	12	43	22
23.09.2024	N/24/09/6-0030	7	11	47	25
24.09.2024	N/24/09/6-0082	9	13	50	28
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 6

STATISTICAL AMBIENT AIR QUALITY DATA

Project : Jonnagiri Gold Mine												
Client : M/s. Geomysore Services (india) Pvt Ltd												
Month : September, 2024												
Station Code : A I - Core Zone (ML Area)					A - II, Bollavanipalli village				A - III, Jonnagiri village			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	6	10	38	18	5	10	35	18	6	8	44	22
10%	6	10	38	21	6	10	42	23	6	9	45	23
25%	7	11	43	24	8	10	45	25	7	9	47	25
50%	9	12	48	28	9	12	49	27	8	10	48	26
75%	11	13	53	30	10	12	54	27	8	13	51	27
98%	13	15	57	32	11	14	56	29	10	14	55	30
Max.	13	15	58	32	11	14	56	29	10	14	55	30
Avg.	9	12	48	27	9	12	48	26	8	11	49	26
SD	3	2	7	5	2	2	7	3	1	2	4	2
No. of obs	8				8				8			
Station Code : A - IV, Upparlapalli village					A - V, Pagadrayi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	4	9	37	22	6	10	32	20				
10%	5	10	39	23	6	11	36	21				
25%	5	10	44	24	7	11	42	22				
50%	8	11	45	26	8	12	48	25				
75%	9	11	50	27	10	12	50	28				
98%	12	14	55	29	11	13	53	30				
Max.	12	14	56	29	11	13	53	30				
Avg.	8	11	46	26	8	12	45	25				
SD	3	2	6	2	2	1	7	4				
No. of obs	8				8							

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TEST REPORT

Table No. 7

Name of the Client		: M/s. Geomysore Services (india) Pvt Ltd			
Name of the Project		: Jonnagiri Gold Mine			
Particulars of sample collected		: SW1 - Jonnagiri Cherau water SW2 - Pagadravi Cherau water			
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)			
Date of sample collection		: 10.09.2024			
Issue Date		: 30.09.2024			
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)					
Lab Code		N/24/09/3-0247	N/24/09/3-0248	Limits For Stream Water Standards	Method of Testing
Sl.No	Samples Code	SW1	SW2		
	Parameters	Results			
1	Colour (Hazen Units), Max	10	10	300	IS:3025(Part-4)2021
2	pH	7.51	8.42	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l, Max	5.2	5.3	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil & Grease, mg/l	<0.1	<0.1	0.1	IS:3025(Part 39)2021
5	Total Dissolved Solids (mg/l), Max	124	220	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	7.24	12.50	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	<0.005	1.5	IS:3025(Part-2) 2019
9	Chloride (as Cl),mg/l, Max	14	20	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	0.7	0.84	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	<0.005	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates as SO ₄ (mg/l), Max	28	40	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	<0.01	0.05	IS:3025(P-27) Sec 1 2021
18	Lead (as Pb) mg/l, Max	<0.005	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	<0.002	0.2	IS:3025(P-2) 2019
20	Chromium (as Cr ⁶⁺), mg/l, Max	<0.03	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	3	IS:3025(P-44) 2014
22	Total Coliform, MPN/100ml	92	110	5000	IS:1622:1981

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