



**THE SINGARENI COLLIERIES COMPANY LIMITED**

(A GOVERNMENT COMPANY)

Registered Office

Kothagudem Collieries (P.O) - 507 101, Bhadradi Kothagudem Dist, Telangana State

**CIN: U10102TG1920SGC000571**

**Environment Dept., Srirampur Area**

PO: Srirampur Colony-504 303, Dist. Mancherial, Telangana State

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Ref.No: SRP/ENV/U-510/2024/260.

Date: 21.11.2024

To  
The Environmental Engineer,  
Telangana State Pollution Control Board,  
Regional Office, H.No: 6-2-166/A, Subhash Nagar,  
Nizamabad - 503 002.

Sir,

Sub: Half yearly Environmental monitoring Report in respect of Srirampur  
Opencast-II Expansion Project of SCCL for the period ending 30.09.2024  
(April, 2024 to September, 2024) - Reg.

Ref : EC Identification No: EC23A042TG142752,  
File No: J-11015/21/2007-IA.II(M), dated.23.01.2023.

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Reference to the MoEF&CC, Environmental Clearance (E.C) letter cited above,  
please find enclosed herewith the Half yearly Environmental Compliance report for the  
period ending 30.09.2024 (April, 2024 to September, 2024) in respect of Srirampur  
Opencast-II Expansion Project, Srirampur Area.

Thanking you,

Yours faithfully,

Encl: As above.

C.C.: PO, SRPOC-II Expansion.



  
**General Manager,**  
Srirampur Area.  
**General Manager**  
**SRIRAMPUR**

**THE SINGARENI COLLIERIES COMPANY LIMITED**

(A Government Company)  
SRIRAMPUR AREA

**HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE****CONDITIONS UP TO 30<sup>TH</sup> SEPTEMBER, 2024.****A. SALIENT FEATURES OF THE PROJECT:**

1.	<b>Name of the Project</b>	:	<b>Srirampur Opencast-II Expansion project</b>
2.	Organization	:	Singareni Collieries Company Limited
3.	Coalfield	:	Godavari Valley Coal Field
4.	Type of Mine	:	Opencast
5.	Technology	:	Shovel –Dumper Combination
6.	<b>Environmental Clearance</b>		
	A. Letter No & date	:	EC Id No. EC23A042TG142752 J-11015/212/2007-IA.II(M),dt.23.01.2023.
	B. Sanction capacity	:	3.5 MTPA
	C. Mining Lease Area	:	1604.11 Ha
	D. Date of Public Hearing	:	19.09.2018.
7.	<b>Location of the Project</b>		
	A. Village	:	Srirampur
	B. Tehasil	:	Nasipur
	C. District	:	Mancherial
	D. State	:	Telangana State
	E. Latitude	:	North 18°48'02" to 18°51'18"
	F. Longitude	:	East 79°28'46" to 79°31'44"
	G. Topo Sheet	:	56N/5, 56N/6, 56N/9 and 56N/10.
	H. Nearest railway station	:	Mancherial (7.5 KM)
	I. Nearest Airport	:	Hyderabad (265km)
	J. Nearest town	:	Mancherial (7.5 km)
8.	<b>Address for Correspondence</b>		
	A. Name	:	T.SRINIVAS
	B. Designation	:	Project Officer
	C. Address	:	Project Officer, Srirampur Opencast-II Expansion Project Post: Srirampur, Mandal: Mancherial, Dist: Mancherial, Telangana State.
	D. Pin Code	:	504303
	E. E-mail ID	:	oc_srp@scclmines.com
	F. Telephone No.	:	08736-200260
	G. Fax No.	:	08736-238222
9.	<b>Life of the Project</b>		
	A. Date of Opening	:	27.07.2009
	B. Total Life as per EMP	:	22 Years
	C. Balance Life	:	13 Years


10.	<b>Seams</b>			
	A. No. of Seams Present	:	10Nos	
	B. Seams being worked	:	1A,1,2,3A,3B and 3 seam	
11.	<b>Depth</b>			
	A. Minimum Depth (m)	:	30 Mtrs	
	B. Maximum Depth (m)	:	350 Mtrs	
	C. Present working depth (m)	:	180 Mtrs	
12.	<b>Reserves</b>			
	A. Total Geological Reserves	:	136.59 MT	
	B. Total Extractable Reserves	:	86.41 MT	
	C. Reserves already Extracted	:	33.844 MT	
	D. Balance Reserves	:	52.566 MT	
	E. Coal production during last 6 months(apr2024-sep2024)	:	1.094 MT	
13.	<b>Land Requirement</b>			
	A. Total Requirement (Mine take area)	:	1604.11 Ha	
	B. Forestland Involved	:	276.38Ha	
	C. Non-forestland	:	1277.52Ha	
	D. Land acquired so far (Surface rights)		1553.90 Ha	
14.	Activity wise Land Requirement in Ha.		<b>Area in Ha.</b>	
			<b>SRP OC-II Expansion Project</b>	
			As per EMP	Present Status
	A	Quarry Area	647.42	406.37
	B	Top/BC soil storage	25.63	23.55
	C	External Dump yard including drains etc., around Dumps	518.72	420.94
	D	Safety Zone/Rationalisation Area (Safe barrier & drain along Quarry & Ext dump)	277.68	265.91
	E	Road & Infrastructures (Service Buildings and CHP)	13.23	13.23
	F	Embankment (Protection Bund along Godavari)	15.99	-
	G	Green belt	52.00	52.00
	H	Others (Railway line & Coal Stock Yard)	53.44	31.07
	<b>TOTAL</b>		<b>1604.11</b>	<b>1213.07</b>
15.	<b>Statutory Clearances</b>		:	
	A. Mining plan approval	:	Approved by Mo C on 21.08.2017.	
	B. Ground Water Clearance	:	Lr. No 236/SCCL/2022-1, dt.27.09.2022.	
	C. Consent for Establishment	:	CFE is obtained on 20/05/2023 vide order no 02/TGPCB/CFE/MCRL/RO-NZB/HO/2023.	
	D. Consent for Operation	:	CFO obtained on 14.07.2023. Consent Order No. 230524408222.	

	E. Forest Clearance	:	Lr.NoF.No.8-56/91-FC/1777/F dated:29.05.2001 (13.11 Ha)  Lr.No F.No.8-27/2007-FC Dated:16 <sup>th</sup> June 2009 for 100.82 Ha.			
	F. Mining Lease	:	The project area falls under the below mining leases namely Srirampur ML and Srirampur Extension ML, NGML,  Srirampur Mining lease was granted vide G.OMs No 42 of I&C department dt 11.02.2008 valid up to 27.06.2038  North Godavari mining lease was granted vide G.O.Ms No 1 of I&C department dt 22.05.2010 valid up to 21.05.2030.			
	G. Others (Specify)	:	Nil			
16.	R & R Involved	:	Total PDFs		1899	
			Total PAFs		02	
			Total amount paid		Rs.37.50 Crores.	
			<b>Name of the Village</b>		<b>No.of PDFs.</b>	<b>No.of plots allotted</b>
			Thallapalli		800	800
			Guttedarpalli		136	136
			Singapur		963	963
			<b>Total</b>		<b>1899</b>	<b>1899</b>



## A. Compliance Status of Environmental Clearance conditions as on 30.09.2024

Cond. No.	Condition	Compliance Status as on 30.09.2024
<b>Specific conditions:</b>		
i)	PP shall obtain CTE/CTO for capacity enhancement up to 3.5 MTPA.	<b>Complied.</b> Obtained CFE for the expansion capacity of 3.50 MTPA, on 20/05/2023 vide order No. 02/TGPCB/CFE/MCRL/RO-NZB/HO/2023. Copy enclosed as <b>Annexure –I.</b> CFO obtained on 14.07.2023 vide order No. 230524408222, valid up to 28.02.2028. Copy enclosed as <b>Annexure-II.</b>
ii)	PP shall not use any forest land for any infrastructure and overburden dumping, even if the said forest land is coal bearing area.	<b>Complied.</b> SCCL utilizing other than forest land for infrastructure and overburden dumping purpose.
iii)	The Project proponent shall take all the effective measures in order to protect from the flow of any type of mine water into the Godavari river. The PP shall make a continuous monitoring mechanism by collecting the sample from near boundary of MLA and Godavari river. The data should be submitted to IRO in every six month.	<b>Complied.</b> All the necessary measures such as garland drains and settling ponds are provided all along the periphery, OB dump and quarry area are being taken to protect from flow of mine water in to Godavari River.  Water quality monitoring of water bodies at upstream and downstream are being carried out once in three months and record of monitoring data is being maintained. The data is being submitted to the Ministry of Environment, Forest and Climate Change/Regional Office once in six months enclosed as <b>Annexure-III.</b>
iv)	The Project proponent shall make a Garland drain at sufficient distance and at the sufficient height from the bank of Godavari river and the same water should be collected first to pass through ETP for reuse purpose or for discharge into the river.	<b>Complied.</b> Garland drains for a length of 11.96 km are made around the quarry and around the dump. Nine (09) No. of siltation ponds of size 25m x 10m x 4m size and One (01) No. of siltation ponds of size 40m x 20m x 5m, were constructed around the mine workings, coal yard & OB dumps to prevent run off of water and flow of sediments directly into the nearby tanks and water bodies. Dump material is being properly consolidated/ compacted and accumulation of water over dumps is avoided by providing adequate channels for flow of silt into the drains.  Waste water generated from the project, is being properly collected and treated so as to conform to the standards prescribed under the Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time.  Two ETPs are also provided in the mine, one at CHP and another at Base Workshop and the effluents are being reused for plantation, dust suppression and washing of HEMM etc.,.  ETP effluents results are furnished in <b>Annexure-IV.</b>
v)	The Project proponent will not be allowed to recover the sand without prior permission.	<b>Complied.</b> No sand is being extracted at the project.
iv)	The project proponent shall install the water sprinklers system along the dedicated coal transportation route near to village as well as in the mining site area with consultation of Gram Panchayat.	<b>Complied</b> Water sprinklers system has been provided in the dedicated coal transportation route in the mining site area. There is no coal transportation along villages and the coal is being transported by Rail mode to customers.


v)	The Project proponent shall implement the dust suppression system at the transportation site and in the other parts of the mining lease to arrest the fugitive dust emission.	<p><b>Being complied</b>  Transportation of coal is being carried out by rail mode to the customers.  All the necessary mitigate measures such as water/mist sprinkling are being taken up to control air pollution and fugitive dust emissions at haul road, loading/unloading, and transfer points, on dump etc.</p>  <p><b>Water sprinkling arrangement at Coal transfer points.</b></p>
vi)	The Project proponent shall take necessary other clearances/ permissions under various Acts and Rules if any, from the respective authorities / department.	<p><b>Complied</b>  All necessary clearances/approvals are obtained before commencing the project.</p>
vii)	PP shall implement 20% of mining machineries & trucks/dumpers operating with LNG/CNG/Electrical in order to curb the pollution due to mining activity.	<p><b>Agreed to Comply</b>  Efforts are being made to use 20% of mining machineries &amp; trucks/dumpers operating with LNG/CNG/Electrical in order to curb the pollution due to mining activity.</p>
viii)	PP shall use only surface miner for mining operation/coal extraction instead of shovel dumper method.	<p><b>Agreed to comply</b>  The SRP OC-II Expansion project is formulated to extract the balance coal reserves of closed SRP-2 and SRP-2A Incline underground mines.</p> <p>The project is being developed on standing pillars and is operated using the shovel and dumper combination technology, as detailed in the Mining Plan approved by the Ministry of Coal (MoC).</p> <p>A surface miner is suitable for deployment on virgin coal patches with a flat gradient and is not suitable for extracting reserves from standing pillars (underground workings).</p> <p>However, SCCL plans to deploy the surface miner in the future when it encounters virgin properties and flatter coal seams (up to a 1 in 5 gradient) that are suitable for surface miner deployment.</p>
ix)	The status of mine closure activities must be included in every six months compliance report Minutes of 38 th EAC (Coal Mining Sector) held on 14-15 December, 2022 Page 7 of 83 submitted to the state pollution control board and IRO.	<p><b>Being Complied</b>  The status of mine closure activities is being included in every six months compliance report Copy enclosed as <b>Annexure-V.</b></p>
x)	PP shall not use any village road for coal transportation and shall only transport through conveyor system with silo loading system at railway siding.	<p><b>Complied</b>  Coal Transportation is being carried out through conveyor system with silo loading system at railway siding only.</p>
xi)	PP to install solar lights along the road used for transportation of minerals to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year.	<p><b>Complied.</b>  Transportation of coal is being carried out by rail mode to customers. Sufficient lighting is provided and maintained all along the coal transportation route.</p> <p>Solar lights were installed in Ramaraopet village, which lies within the study area of 10 km radius buffer zone.</p>





xii)	PP to provide bio toilets to the villages located within the study areas within 1 year from the grant of this EC.	<b>Agreed to comply.</b> Approval has been obtained to provide bio-toilets in the villages located within the study area and will be established shortly.
xiii)	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.	<b>Being Complied.</b> About 2600 jobs were already provided in OB off loading & other contractual operations and 54 un-employed youth were given preference for deploying contract vehicles. Employment opportunities will be created in future also. Skill development programmes are being conducted to improve the job opportunities for unemployed local youth in project contractual operations and also in other segments. SCCL will continue the skill development programmes. 1983 persons of surrounding villages were imparted training in various fields like driving, motor winding, beautician, police, army etc. Copy enclosed as <b>Annexure-VI.</b>
xiv)	PP to fulfill all the commitment made in the minutes of public hearing to address the issues raised therein in a time bound manner and a progressive report to be furnished to IRO in every six monthly as compliance report.	<b>Being Complied</b> All the commitments made on the issues raised during public hearing are being implemented in letter and spirit. The copy was enclosed as <b>Annexure-VII.</b>
xv)	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	<b>Being Complied</b> SCCL is taking all necessary measures to ensure darkness and minimal noise levels at night so that the biological clock of the villages is not disturbed. The illumination standards are being maintained well within the prescribed standards in the mine, illumination survey is being carried out in every week. Noise monitoring is carried out through a NABL accredited third party agency, EPTRI, Hyderabad in core zone and buffer zone and monitored results are well within prescribed limits. The monitored data is being sent to RO in every six months. The details of noise results are enclosed as <b>Annexure-VIII.</b> The illumination survey reports are enclosed in <b>Annexure - IX.</b>
xvi)	PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms.	<b>Agreed to comply.</b> SCCL will pay for any loss due to pollution to the agricultural land of farmers if any by concerned District Commissioner as per extent rules or norms.
xvii)	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site itself which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/ consultants. Any non-compliance or infringement should be reported to the concerned authority.	<b>Complied.</b> Post project environmental monitoring work is being carried out through Environment Protection Training and Research Institute (EPTRI), Hyderabad, which is a CPCB recognized and NABL accredited laboratory.  A Regional Environmental Laboratory for Bellampalli Region was commissioned with all facilities at Mandamarri Area for monitoring of critical parameters in the field.


xvii	Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MOEF&CC.	<b>Agreed to Comply.</b> After completion of mining operations, re-grassing/reclamation of the disturbed area due to mining activities will be taken up and restored as per the approved Mining Plan & Final Mine Closure Plan. The implementation report will be submitted to the Regional Office of the MoEF&CC during the post closure stage.
<b>4.1.The grant of Environment Clearance (EC) is further subject to compliance of the Standard EC conditions as under:</b>		
<b>4.1. (a). Statutory compliance:</b>		
(i)	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	<b>Complied.</b> Total Forest land involved in the project is 273.86 ha. The total Forest land has been diverted vide G.O were also issued by the MoEF&CC and Govt of Telangana vide Itr No.8-06/2019/FC,date:21.12.2023 and G.O MS No.2, date: 24.01.2024 respectively.
ii)	The project proponent shall obtain clearance from the National Board for Wild life, if applicable.	<b>Complied.</b> The project is located outside the wild life sanctuary. Hence it is not applicable.
(iii)	The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).	<b>Complied.</b> There are no endangered species found in core and buffer zone of the project area. However, a Wildlife Conservation & Mitigation Plan for Schedule-I species (Indian Monitor, Indian Peafowl & Indian Rock Python) present in the buffer zone was prepared for an amount of Rs.526.367 Lakhs and was approved by the PCCF & CWW vide Ref. No.5694/2021/WL-1 dated: 01.04.2022.  SCCL has deposited the amount to forest department towards implementation of conservation plan. The copy was enclosed as <b>Annexure-X</b> .
(iv)	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	<b>Complied</b> Obtained CFE on 20/05/2023 vide order No. 02/TGPCB/CFE/MCRL/RO-NZB/HO/2023. The copy was enclosed as <b>Annexure-I</b> . CFO obtained on 14.07.2023 vide Order No. 230524408222, valid up to 28.02.2028. The copy was enclosed as <b>Annexure-II</b> .
(v)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	<b>Complied.</b> Ground water clearance was obtained from State Ground water Dept. vide Lr. No. 236/SCCL/2022-1,date:27.09.2022 for the project. Renewal application was submitted to Ground Water Department, Mancherla, as per gazette Notification No: G.O. Ms No-15, Irrigation & Cad (WRG-GRC), dated 27.05.2023 and field inspection was done by the authorities on 01.06.2024. However, the permission is awaited.  The GWC copy enclosed as <b>Annexure-XI</b> .





(vi)	Solid/hazardous waste generated in the mines needs to be addressed in accordance with the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.	<b>Being Complied</b> Solid Waste Management Rules, 2016/ Hazardous & Other Waste Management Rules, 2016 are being complied.
<b>(b) Air quality monitoring and preservation.</b>		
(i)	Continuous ambient air quality monitoring stations as prescribed in the statute be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months.	<b>Complied</b> Continuous Ambient Air Quality Monitoring Station is established in the core zone for monitoring of pollutants, namely PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . Location of the ambient air quality monitoring stations was identified in consultation with the State Pollution Control Board. Ambient air quality parameters such as PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> are being monitored at regular intervals. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc., are being carried out once in six months and monitoring data is being submitted along with half yearly reports to the ministry and its regional office of MoEF&CC. The details monitoring locations, frequency of sampling and results of monitoring of ambient air quality enclosed as <b>Annexure-XII</b> .
(ii)	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.	<b>Being Complied.</b> Ambient Air Quality monitoring in the core zone is being carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data are being reported regularly to the Ministry/Regional Office and to the CPCB/SPCB as a part of HYMR. The details monitoring locations, frequency of sampling and results of monitoring of ambient air quality enclosed as <b>Annexure-XII</b> .
(iii)	Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of PM <sub>10</sub> /PM <sub>2.5</sub> ) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.	<b>Being Complied.</b> Transportation of coal is being carried out by rail mode to the customers. All necessary imitative measures such as regular water/mist sprinkling/mist spray etc., are being taken to control air pollution at haul road, loading/unloading, and transfer points, on dump etc. Fugitive dust emissions from all sources are being controlled.  <b><u>Water sprinkling arrangement at Coal transfer points</u></b>

(iv)	<p>The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.</p>	<p><b>Complied</b> Transportation of coal is being carried out by rail mode to the customers.</p>
(v)	<p>Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.</p>	<p><b>Being Complied.</b> Vehicular emissions are being kept under control and they are regularly monitored. Vehicular emissions are being monitored at every six months interval through EPTRI, Hyderabad, which is a CPCB, recognized and NABL accredited laboratory. The HEMM report was enclosed as <b>Annexure-XIII</b>.  'PUC' certificates for OB contractual vehicles are being obtained by respective contractual agencies from the authorized pollution testing centers.</p>
(vi)	<p>Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.</p>	<p><b>Complied.</b> Coal stock pile/crusher/feeders are provided with dry fog spraying system and breaker material transfer points are provided with mist spray dust suppression system. Side cladding all along the conveyor gantry is made to avoid air borne dust. All the drills are being wet operated.</p> <div data-bbox="799 974 1444 1317" data-label="Image"> </div> <p style="text-align: center;"><b><u>Side Cladding and fully covered gantry</u></b></p> <div data-bbox="799 1375 1444 1666" data-label="Image"> </div> <div data-bbox="799 1695 1444 2040" data-label="Image"> </div> <p style="text-align: center;"><b><u>Mist spray dust suppression</u></b></p>

(vii)	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.	<p><b>Being Complied.</b></p> <p>Coal handling plant is being operated with effective control measures such as water spray system at in pit &amp; surface crushers, at every transfer points, along belt conveyor, fog canon dust suppression system at GL bunkers, silo loading and high pressure mist spray system at plough feeders. In addition to this loading and unloading points, fixed points are provided with water spraying system and water sprinkling with mobile water sprinklers.</p>  <p style="text-align: center;"><b><u>Dry fog at Crusher</u></b></p>
<b>(c) Water quality monitoring and preservation</b>		
(i)	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.	<p><b>Being Complied.</b></p> <p>The effluent discharge (mine waste water, workshop effluent) is being monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.</p>  <p>The monitoring of ETP and STP outlet results are enclosed as <b>Annexure- IV</b>.</p>
(ii)	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	<p><b>Being Complied.</b></p> <p>The monitoring data is being uploaded on the company's website and displayed at the project site at a suitable location.</p>
(iii)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus	<p><b>Being Complied.</b></p> <p>Regular monitoring of ground water levels and quality is being carried out in and around the mine lease area by establishing a network of existing wells (8 nos.) and by constructing new piezometer wells.</p> <p>The monitoring of ground water levels is being done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons.</p>

	collected shall be sent regularly to MOEFCC/RO.	Data thus collected is being submitting to the MoEF& CC and to the State Pollution Control Board along with half-yearly monitoring reports.  The monitoring details enclosed as <b>Annexure –XIV</b> .
(iv)	Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.	<b>Being Complied</b> Monitoring of water quality at upstream and downstream of water bodies are being carried out once in three months and record of monitoring data is being maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office once in six months. The monitoring details are furnished <b>Annexure-III</b> .
(v)	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.	<b>Being Complied</b> Around 62 No. of Rainwater harvesting pits are constructed in surrounding villages for augmentation of ground water resources. The excess treated mine discharge water after meeting the stipulated norms is being discharged into nearby tank for irrigation and ground water recharge.   <b><u>Rain Water Harvesting pits</u></b>
(vi)	Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilized for dust suppression and green belt development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run- off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.	<b>Being Complied</b> Garland drains for a length of 11.96 km are made around the quarry and around the dump. Nine (09) No. of siltation ponds of size 25m x 10m x 4m size and One (01) No. of siltation ponds of size 40m x 20m x 5m, were constructed around the mine workings, coal yard & OB dumps to prevent run off of water and flow of sediments directly into the nearby tanks and water bodies. Dump material is being properly consolidated/ compacted and accumulation of water over dumps is avoided by providing adequate channels for flow of silt into the drains. Sump is provided with sufficient capacity for adequate retention period of seepage water to allow proper settling of silt material. The water so collected in the sump is being utilized for dust suppression and green belt development and other industrial use. The water collected in the settling ponds is used for industrial purpose like dust suppression, HEMM washing, Plantation etc.
(vii)	Adequate groundwater recharge measures shall be taken up for augmentation of ground	<b>Being Complied</b> For the purpose of augmenting groundwater recharge,



	water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).	three Rain water harvesting structures, each measuring 5 meters by 8 meters, were constructed within the project premises, and 62 rainwater harvesting pits, each measuring 2.5 meters by 2.5 meters, were constructed in the surrounding villages. The excess treated mine discharge water after meeting the stipulated norms is being let out into nearby Thallapalli Cheruvu (irrigation tank).
(viii)	Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Adequate ETP /STP needs to be provided.	<p><b>Complied</b></p> <p>Waste water generated from the project, is being properly collected and treated so as to conform to the standards prescribed under the Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. A 3 MLD capacity STP is provided in SCCL's colony for treating colony effluent. Two ETPs are also provided in the mine one at CHP and another at Base Workshop.</p>  <p style="text-align: center;"><b>Sewage Treatment Plant, Naspur colony.</b></p>  <p style="text-align: center;"><b><u>ETP at SRP OCP</u></b></p> <p>ETP effluents results are furnished in <b>Annexure-IV</b></p>
(ix)	The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	<p><b>Being Complied</b></p> <p>The seepage water pumped out of the project after siltation is being utilized for dust suppression, plantation and fire fighting etc. The drains are being regularly de-silted before onset of monsoon and maintained properly.</p>
(x)	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc, shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/Gol Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved	<p><b>Complied</b></p> <p>Garland drains are provided all along the periphery of quarry area. The streamlets that originate outside the proposed project and are flowing across the quarry were already re-oriented through garland drains, so that, the flow is meeting the original course in the downstream and the impact on regional hydrology is negligible. A surface drainage plan has been prepared and being implemented. There are no diversions of natural water courses involved for the project. A portion of the embankment is constructed alongside the OB dump on the riverbank to prevent soil entering into the River Godavari and to safeguard against the</p>

	Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.	inrush of surface water into the mine.
(xi)	The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.	<b>Being Complied</b> A riverine/riparian ecosystem conservation and management plan prepared and implemented. Copy enclosed as <b>Annexure-XV</b> .
<b>(d)</b>	<b>Noise and Vibration monitoring and prevention</b>	
(i)	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.	<b>Being Complied</b> Adequate measures are being taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. All the HEMM are provided with Sound Proof Cabins. Periodic planned preventive maintenance & engine tuning of HEMM and other transport vehicles is being done. Workers being engaged in noisy environment like blasting and drilling operations, operation of HEMM, etc are being provided with personal protective equipments (PPE) like ear plugs/muffs. Adequate awareness programme for users are being conducted and also ensuring usage of such accessories during the inspections of officers and supervisors. Thick Green Belt has been developed around the project for noise attenuation.
(ii)	Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS. The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.	<b>Being Complied</b> Controlled blasting technique with NONELs is being carried out in order to mitigate ground vibrations, fly rock, noise and air blast etc., Avoiding secondary blasting with proper blast design, spacing and burden. Rock breakers are being used for to avoid secondary blasting/pop shooting of boulders. Noise level survey is being carried out as a part of PPEM at the locations in the Core Zone & Buffer zones of the project The monitoring data is being submitted along with half yearly reports to the ministry/regional office of MoEF&CC on six-monthly basis. In addition, noise level survey is being carried out as per the D.G.M.S. guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises and records are being maintained. The ground vibrations results are furnished in <b>Annexure-XVI</b> .
<b>(e)</b>	<b>Mining Plan</b>	
(i)	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.	<b>Being Complied</b> Mining operations are being carried out as per the provisions of the Mines Act 1952 and subordinate legislations made there-under, as applicable.
(ii)	Mining shall be carried out as per the approved mining plan(including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	<b>Being Complied</b> Mining operations are being carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety(DGMS).







(iii)	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	<b>Complied</b> Mining operations are being carried out within the diverted Forest land.
(iv)	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	<b>Being Complied.</b> The following energy and fuel conservation measures and efficiency improvement and renewable energy are being used in SCCL. 1. Solar Power: Total Solar Power Installed in the SCCL is 245.5 Mega Watt (MW), out of which installed capacity in Srirampur Region is approximately 11 MW. 2 . Fixing of Energy Meters. 3. Lighting: <ul style="list-style-type: none"> <li>Incandescent lamps are banned in quarters.</li> </ul> 4. Energy efficient appliances: <ul style="list-style-type: none"> <li>Made mandatory to purchase 5 star rated household appliances.</li> </ul> 5. Others: In OC mines, proposed to procure mobile Solar Lighting Masts with energy saving LED lights with Battery backup in place of diesel operated DG Set with conventional high capacity lights.
<b>(f)</b>	<b>Land reclamation</b>	
(i)	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFC) from time to time shall be submitted to MOEFCC/Regional Office (RO).	<b>Complied</b> Digital processing of the entire lease area based on satellite imagery is being done regularly once in 3 years for monitoring land use pattern and post mining land use. Satellite imagery land survey was conducted in year 2022, and the report was submitted to MoEF and its Regional Office at Hyderabad. Vide Itr No: SRP/ENV/D-404A/2023/377 date:20.12.2023. The land use land cover report is enclosed as <b>Annexure-XVII</b> .
(ii)	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.	<b>Agreed to Comply</b> As per the approved mine plan, Maximum depth of the final void at the end of the mining operation is 350 m with a void area of 360.74 ha. The void at the end of mining operations will be left over as a water body. The remaining area will be backfilled and covered with thick and alive top soil, wherein plantation is carried out. Final mine closure plan will be submitted to MoC five years before the intended final closure of the mine as per the guidelines of Ministry of Coal. Adequate engineering interventions will be provided for sustenance of aquatic life in case the depth exceeds 40 m.
(iii)	The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/"post mining" land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.	<b>Being Complied</b> Excavation, backfilling, external OB dumping (including top soil) and afforestation is being carried out as envisaged in the approved Mining Plan /EIA-EMP. Plantation is being carried out over the stabilized finished OB dumps after attaining their planned maximum height. So far, OB is backfilled in 69.13 ha of de-coaled void area. Total progressive plantation up to September-2024 is 564.62 ha. Progressive compliance status vis-à-vis the post mining land use pattern is being submitted to the MoEF&CC/RO along with HYMR.



(iv)	<p>Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&amp;CC, CPCB and SPCB.</p>	<p><b>Agreed to Comply</b>  The Central Level Working Group for Allocation of Coal Mines for Disposal of Ash by Thermal Power Plants was constituted under the chairmanship of AS&amp;NA, MoC. In its meeting, the committee opined that, in running mines, fly ash filling is not possible due to safety issues, as per various studies conducted by CIL, and advised filling ash in abandoned mine voids.  Further, MoEF&amp;CC also advised SCCL to conduct a scientific study through CSIR Central Institute of Mining and Fuel Research (CIMFR), Dhanbad, in one of its opencast mines, i.e., Manuguru Opencast Project, to ascertain the stability of overburden dumps, by mixing of fly ash.  CSIR-CIMFR submitted its final draft report on 27.02.2024. According to the report, it is not advisable and feasible to use 25 % of Ash and 75 % of Overburden in external and internal dumps of MNG OCP both under the present and post-mining scenarios as the factor of safety is less than the stipulated norm of 1.5. Based on the study report findings, SCCL will request MoEF&amp;CC to exempt the EC condition regarding the use of fly ash in dumps and backfilling operations in SCCL's running mines.  However, it is to submit that the fly ash is being utilized in the underground mines of SCCL for stowing of goaved out areas. Till now, around 112.83 Lakh Cu.m of ash has been utilized for this purpose.</p>
(v)	<p>Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.</p>	<p><b>Being Complied</b>  The topsoil is being temporarily stored at ear marked site and is being used for land reclamation and plantation purposes.  OB dump is being stabilized with native grass species like Hamato grass to prevent erosion and surface run off. The overburden dump is being vegetated with native flora species.  The excavated area is being backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas will continue until the vegetation becomes self-sustaining.</p>
(vi)	<p>The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.</p>	<p><b>Agreed to Comply</b>  SCCL approached the State government to provide alternate areas for livestock grazing vide Ltr No: SRP/EST/2024/198, Dated: 24.04.2024. Mean While, Grazing land is being provided at South East side of the external dump yard. <b>Copy enclosed as Annexure-XVIII.</b></p>
<b>(g)</b>	<b>Green Belt</b>	
(i)	<p>The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be</p>	<p><b>Complied</b>  There are no endangered/endemic flora/fauna reported in the study area.  However, a Wildlife Conservation &amp; Mitigation Plan for Schedule-I species (Indian Monitor, Indian Peafowl &amp;</p>

	prepared and implemented in consultation with the State Forest and Wildlife Department.	Indian Rock Python) present in the buffer zone was prepared for an amount of Rs.526.367 Lakhs and was approved by the PCCF & CWW vide Ref. No.5694/2021/WL-1 dated: 01.04.2022.  SCCL has deposited the amount to forest department towards implementation of conservation plan. The copy was enclosed as Annexure-X(A).
(ii)	Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/coal transportation roads.	<b>Complied.</b> Greenbelt consisting of 3 tier plantation of width not less than 7.5 m is developing all along the mine lease area. The green belt comprising a mix of native species (endemic species) developed all along the major approach/coal transportation roads.
<b>(h)</b>	<b>Public hearing and Human health issues</b>	
(i)	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six-monthly basis.	<b>Being Complied</b> Adequate illumination is being ensured in all mine locations as per DGMS standards and monitoring weekly. The report on the same is being submitted to this ministry & it's RO on six-monthly basis.  The data furnished in <b>Annexure-IX.</b>
(ii)	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.	<b>Being Complied</b> SCCL established eleven Initial Medical Examination (IME) /Periodical Medical Examination (PME) centres in the company, i.e., at Kothagudem, Manuguru, Yellandu, Godavarikhani, Sector - III Colony (Godavarikhani), Bellampalli, Ramakrishnapur, Mandamarri, Srirampur Bhupalpally and Sathupalli for conducting IME/PME of the employees including contract employees.  All the PME Centers are equipped with necessary infrastructure for carrying out IME/PME and maintenance of data base.  Every PME centre is provided with the facility for chest radiographs as per ILO guidelines with a set of ILO standard chest radiographs on Pneumoconiosis, lung function tests with computerized Spirometres of RMS make, and facilities for Audiometry with pure tone Audiometry equipment.  SCCL has one Occupational Diseases Board (Pneumoconiosis Board) in existence since 1965. Chief of Medical Services, Radiologist constituted the Occupational Diseases Board, Physician and Occupational Health Physician together. 150 persons have undergone PME during these six months.  The PME details are being submitted to the Ministry and to the DGMS at regular intervals.
(iii)	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.	<b>Being Complied</b> Persons being deployed in open atmosphere in mining operations (including outsourced employees) are being provided with dust masks to wear and adequate training and information on safety and health aspects is being

		<p>imparted.</p> <p>Dust masks are being provided to workmen exposed to dusty environment.</p> <p>Dust masks to the outsourced employees are being provided by respective OB contractual agencies.</p> <p>Adequate training is being imparted on safety and health aspects at the Mine Vocational Training Centre, Srirampur during initial/ refresher training programmes and being educated regularly during safety education, talks etc. by concerned in charges.</p>
(iv)	<p>Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land outsets shall be compensated as per the norms laid down in the R&amp;R policy of the company/State Government/Central Government, as applicable.</p>	<p><b>Being Complied</b></p> <p>Action plan on the issues raised during the public hearing is formulated and implementation is being ensured. Enclosed as <b>Annexure-VII</b>.</p> <p>All the tasks/measures as per the action plan are being undertaken.</p> <p>Land outsets are being compensated as per the norms laid down in the R&amp;R policy of the company/State Government/ Central Government, as applicable.</p> <p>The issues raised during public hearing are being implemented for R&amp;R total amount paid so far Rs.37.5 Crores.</p>
(v)	<p>The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.</p>	<p><b>Being Complied</b></p> <p>The mitigation measures suggested in the Ministry's OM No.Z-11013/5712014-IA.II (M) dated: 29th October, 2014 are being implemented.</p>
(i)	<b>Corporate Environment Responsibility</b>	
(i)	<p>The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.</p>	<p><b>Being Complied</b></p> <p>The company is having a well laid down environmental policy duly approved by the Board of Directors.</p> <p>The environmental policy is containing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/ violation of the environmental/ forest/ wildlife norms/conditions.</p> <p>The company is having a defined system of reporting infringements/deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and/or shareholders/stake holders.</p> <p>Environmental Policy enclosed as <b>Annexure-XIX</b>.</p>
(ii)	<p>A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</p>	<p><b>Complied</b></p> <p>A company level environment cell with qualified personnel headed by General Manager (Environment) who is directly reportable to the Chairman of the Company is established to monitor and guide in implementation of the environmental safeguards.</p> <p>An area level environmental cell headed by qualified environmental officer is established and functioning under the control of area General Manager to monitor and guide in implementation of the environmental safeguards.</p> <p>Apart from this, a unit level Environmental Management</p>

		<p>Committee with multi disciplinary team has been constituted under the chairmanship of SO to GM. The committee has been constituted with following members.</p> <table><tr><td>1.</td><td>SO to General Manager</td><td>Chairman</td></tr><tr><td>2.</td><td>Project Officer</td><td>Member</td></tr><tr><td>3.</td><td>Area Engineer(E&amp;M)</td><td>Member</td></tr><tr><td>4.</td><td>Area Civil Engineer</td><td>Member</td></tr><tr><td>5.</td><td>Area Forest Officer</td><td>Member</td></tr><tr><td>6.</td><td>Area Estates Officer</td><td>Member</td></tr><tr><td>7.</td><td>Project Manager</td><td>Member</td></tr><tr><td>8.</td><td>Project Engineer</td><td>Member</td></tr><tr><td>9.</td><td>Project Surveyor</td><td>Member</td></tr><tr><td>10.</td><td>Project Env Officer</td><td>Member</td></tr><tr><td>11.</td><td>Area Env Officer</td><td>Secretary</td></tr><tr><td>12.</td><td>Sr,Hydro Geologist</td><td>Member</td></tr><tr><td>13.</td><td>Area Survey Officer</td><td>Member</td></tr></table>	1.	SO to General Manager	Chairman	2.	Project Officer	Member	3.	Area Engineer(E&M)	Member	4.	Area Civil Engineer	Member	5.	Area Forest Officer	Member	6.	Area Estates Officer	Member	7.	Project Manager	Member	8.	Project Engineer	Member	9.	Project Surveyor	Member	10.	Project Env Officer	Member	11.	Area Env Officer	Secretary	12.	Sr,Hydro Geologist	Member	13.	Area Survey Officer	Member
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(iii)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	<p><b>Complied</b></p> <p>Compliance of EC/CFE/CFO/GWC/FC etc and for implementing EMP.</p> <p>The funds earmarked for environmental protection measures are not being diverted for any other purpose. Year wise progress of implementation of environmental protection measures is being reported to the Ministry/Regional Office along with the Six Monthly Compliance Report. The details are enclosed in <b>Annexure- XX</b>.</p>																																							
(iv)	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	<p><b>Being Complied.</b></p> <p>Self environmental audit is being done at area level by the committee on half yearly basis. Third party environmental audit will be carried out within three years.</p>																																							
(j)	<b>Miscellaneous</b>																																								
(i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	<p><b>Complied</b></p> <p>Advertisement regarding grant of Environmental Clearance to this Project was published in two local news papers within seven days of grant of EC i.e. in news papers "The Hans India (English)" &amp; Namaste Telangana (Telugu) on 20.12.2022.</p> <p>A copy of the Environmental clearance was also displayed in the SCCL's website <a href="https://scclmines.com/env/docs/ECS/34008.pdf">https://scclmines.com/env/docs/ECS/34008.pdf</a> permanently.</p> <p>A copy of the Environmental clearance was submitted to Telangana State Pollution Control Board. EC Itr No:J-11015/212/2007-IA.II(M), dtd.23.01.2023.</p> <table><tr><td><p><b>The Hans India, English (25.01.2023)</b></p><p>THE HANS INDIA - English Paper, Dec 25.01.2023</p></td><td><p><b>Eenadu, Telugu (25.01.2023)</b></p><p>తెలంగాణ - తెలుగు పేపర్, 25.01.2023</p></td></tr></table>	<p><b>The Hans India, English (25.01.2023)</b></p>  <p>THE HANS INDIA - English Paper, Dec 25.01.2023</p>	<p><b>Eenadu, Telugu (25.01.2023)</b></p>  <p>తెలంగాణ - తెలుగు పేపర్, 25.01.2023</p>																																					
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(ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	<p><b>Complied</b> This condition was complied immediately after receiving EC from MoEF&amp;CC, New Delhi. EC Id No. EC23A042TG142752,J-11015/212/2007-IA.II(M),dt.23.01.2023. The E.C. Copy enclosed as <b>Annexure-XXI</b>.</p> <p>The copies of the environmental clearance were submitted to heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government vide Lr. No. SRP/ENV/EC/2023/16,date:24.01.2023. for display the same for 30 days from the date of receipt. The copy enclosed as <b>Annexure-XXII</b>.</p>
(iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	<p><b>Being Complied</b> The status of compliance of the stipulated environment clearance conditions, including results of monitored data will be uploaded on SCCL website and update the same on half-yearly basis. Soft copies of the status of compliance of environmental conditions are being submitted on the website of the ministry of MoEF&amp;CC. once in every six months. Hard copy of the status of compliance of EC conditions will be submitted to the TGPCB office.</p>
(iv)	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOX (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	<p><b>Complied</b> Six-monthly reports on the status of compliance with the stipulated environmental conditions are being submitted on the website of the Ministry of Environment, Forest and Climate Change at the environment clearance portal. A copy is also being uploaded to the MoEF&amp;CC web portal PARIVESH.</p>
(v)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	<p><b>Being Complied</b> Six-monthly reports on the status of the compliance of the stipulated environmental conditions are being submitted on the website of the ministry of MoEF&amp;CC. A copy is also being uploaded to the MoEF&amp;CC web portal PARIVESH.</p>
(vi)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.	<p><b>Being Complied</b> The mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th October, 2014 are being followed.</p>
(vii)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company	<p><b>Being Complied</b> The Environmental statement for each financial year ending in Form-V will be submitted by the project authority to the State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, and also being uploaded on the company's website <a href="https://scclmines.com/env/docs/ECS/340085.pdf">https://scclmines.com/env/docs/ECS/340085.pdf</a> along with the status of compliance of EC conditions.</p>
(viii)	The project authorities shall inform to the Regional Office of the MOEF&CC regarding commencement of mining operations.	<p><b>Complied</b> Regarding commencement of mining operations informed to the Regional Office of the MOEF&amp;CC The copy was enclosed as <b>Annexure-XXIII</b>.</p>

(ix)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	<b>Agreed to Comply</b> The condition is noted and assured to abide the condition.
(x)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	<b>Being Complied</b> All Commitments and recommendations made in the EIA/EMP report, during Public Hearing and also that during their presentation to the Expert Appraisal Committee are being implemented.
(xi)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.	<b>Agreed to Comply</b> Any further expansion or modification will not be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.
(xii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<b>Agreed to Comply</b> Actual data is being submitted.
(xiii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	<b>Complied</b> The conditions stipulated in Environmental clearance letter are being implemented.
(xiv)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	<b>Agreed to Comply</b> If any additional conditions are stipulated by the Ministry, the same will be implemented.
(xv)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/ monitoring reports.	<b>Complied</b> Project authorities are extending full co-operation during the visits of the office(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
(xvi)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	<b>Complied</b> All the measures are being taken to avoid Air & water pollution due to the mining operations. CFE and CFO were obtained for the project under air and Water Acts. PLI policy is also being taken every year. The latest PLI policy was taken from The New India Assurance Co. Ltd., bearing no. 550200492410000034, valid from 30.04.2024 to 29/04/2025. A copy is enclosed as <b>Annexure-XXIV</b> .
5.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.	<b>Being Complied</b> All commitments and recommendations made in the EIA / EMP report and also during presentation to the EAC are being complied.
6.	The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate	<b>Complied</b> All necessary clearances/approvals are obtained before commencing of the project. The expansion production of project started after

	any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	obtaining all necessary clearance/approvals only. Any further condition, if stipulated by the ministry or any other competent authority for environmental protection, will be complied.
7.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<b>Complied</b> No appeal against this environmental clearance was made within a period of 30 days with the National Green Tribunal.
8.	The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of 'Common Cause Vs Union of India & others.	<b>Complied</b> No illegal mining is done in this project.
9.	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.	<b>Complied</b> No illegal mining is done in this project.
10.	This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.	<b>Complied</b> This condition is not applicable.
11.	All other conditions stipulated in Environment Clearance letter vide F No. J- 11015/212/2007-IA.II (M) dated 11th July, 2008 shall be complied with.	<b>Being Complied</b> All other conditions stipulated in Environment Clearance letter vide F No. J- 11015/212/2007-IA.II (M) dated 11th July, 2008 are also being compiled.

  
 Project Officer,  
 Srirampur Onencast-II Expansion Project  
 Project Officer  
 SRP.OC-II Exp. Proj. Mine







**TELANGANA STATE POLLUTION CONTROL BOARD**  
**Paryavarana Bhavan, A-III, Industrial Estate, Sanathnagar,**  
**Hyderabad-500 018**  
**Phone : 040-23887500**

**CONSENT ORDER FOR ESTABLISHMENT (EXPANSION) – RED CATEGORY**

**Order No. 02/TSPCB/CFE/MCRL/RO-NZB/HO/2023**

**Dt:20.05.2023**

<b>Sub:</b>	TSPCB – CFE – M/s.SCCL, Srirampur Opencast-II Expansion Project, Srirampur Area, Ramaraopet (V), Mancherla (Mandal& District) – Application for CFE for Expansion - Consent for Establishment of the Board for expansion under Sec.25 of Water (Prevention & Control of Pollution) Act, 1974 and Under Sec.21 of Air (Prevention & Control of Pollution) Act, 1981 – Issued – Reg.
<b>Ref:</b>	1) CFO Expansion Order dt: 25.02.2021, 2) EC expansion dt: 23.01.2023, 3) Industry's CFE expansion application dt: 11.02.2023. 4) R.O's verification report dt: 04.05.2023. 5) CFE Committee meeting held on 12.05.2023.

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1. M/s.SCCL, SRP OCP-II has obtained CFO vide order dated 25.02.2021 for coal production of 2.5 MTPA which is valid upto 31.03.2026.
2. M/s. SCCL obtained EC order dt: 23.01.2023 for expansion of coal production from 2.5 MTPA to 3.5 MTPA and increase in mine lease area from 707.63 Ha to 1604.11 Ha.
3. The industry, vide reference 3<sup>rd</sup> cited, submitted application to the Board seeking Consent for Establishment (CFE) for expansion for the following capacities as per EC expansion order, with a total project cost of Rs. 398.47 Cr. after expansion.

S.No	Products / Line of Activity	As per CFO order dt: 25.02.2021	Proposed	Total after expansion
1	Coal from Open Cast Mining	2.50 MTPA	1.0 MTPA	3.50 MTPA

**Raw materials / Fuels required for production :**

S.No	Name of the Major Raw material	As per CFO order dt: 25.02.2021	Proposed	Total after expansion
1)	Explosives	80933 Kg/day	8979 Kg/day	89912 Kg/day
2)	Lubricant Oils	6.5 Kg/month	2.33 Kg/month	8.83 Kg/month
3)	Diesel	2928 Kl/month	1000 Kl/month	3928 Kl/month

4. As per the application, the proposed expansion is to be carried out at Srirampur Opencast-II Expansion Project, Srirampur Area, Ramaraopet (V), Mancherla (Mandal& District) in an area of 1604.11 Ha.
5. The above site was inspected by the Environmental Engineer & Asst. Environmental Engineer, Regional Office, Nizamabad, T.S. Pollution Control Board, on 11.04.2023, and observed that the site is surrounded by :

North : Agricultural lands & Srirampur village  
 South : Agricultural lands & Godavari River  
 East : Agricultural lands & Ramaraopet village  
 West : Agricultural lands & Seetherampalli village

5. The Board, after careful scrutiny of the application and additional information submitted by the industry, verification reports of the Regional Officer, E.C. Expansion Order dated 23.01.2023 issued by MoEF&CC, Govt and after examining in the CFE Committee

meeting held on 12.05.2023, hereby issues CONSENT FOR ESTABLISHMENT for expansion to your project under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. This order is issued to the products and capacities as mentioned at Para (3) only.

6. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.
7. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

Encl: Schedule 'A'  
Schedule 'B'

Sd/-  
MEMBER SECRETARY

To  
M/s.SCCL, Srirampur Opencast-II Expansion Project,  
Srirampur Area, RamaraoPET (V),  
Mancherla (Mandal & District).

// T.C.F.B.O.//

*Ksreddy*  
Joint Chief Environmental Engineer  
*EBM*

### **SCHEDULE - A**

1. This order is valid for a period of 5 years from the date of issue. Progress on implementation of the project shall be reported to the concerned Regional Office, T.S. Pollution Control Board once in six months. The consent of the Board shall be exhibited in the industry's premises at a conspicuous place for information of the inspecting officers.
2. The proponent shall obtain Consent for Operation (CFO) from TSPCB, as required Under Sec.25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under sec. 21/22 of the Air (Prevention and Control of Pollution) Act, 1981, before commencement of the activity.
3. The proponent shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.
4. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Hon'ble Courts, Collector and District Magistrate as Civil liability.
5. The rules and regulations notified under Environmental Acts by the MOEF&CC and by the Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.
6. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.
7. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers under Section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and amendments thereof, to review any and/or all the conditions imposed herein, to modify conditions or stipulate any further conditions and to take action including revocation of this order in the interest of public health and environment.
8. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per the State Water Rules, 1976 and Air Rules, 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

### **SCHEDULE - B**

#### **Water:**

1. The source of water is Mine discharge water. The industry shall comply with the following after expansion:

S.No	Purpose	Quantity in KLD
1.	Dust suppression	886
2.	Washings	200
3.	Domestic	22
4.	Green belt / Plantation	400
Total:		1508 KLD

➤ Wastewater generation:

The Industry shall comply with the following after expansion:

S.No	Effluents	Quantity (KLD)
1.	Mine discharge water & Vehicle washings	3942 KLD
2	Boiler Blow Down -	--
3	Others (Please Specify)	--
4	Domestic	17 KLD
<b>Total:</b>		<b>3959 KLD</b>

**Treatment and Disposal:**

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1	Mine discharge water & Vehicle washings after treatment	3942 KLD	Treatment in settling ponds. The supernatant shall be utilized for dust suppression, vehicle washings, plantations & domestic purpose. The rest of the supernatant shall be discharged into nearby irrigation tanks.
2	Domestic Waste Water	17 KLD	Treatment in 3 MLD Sewage Treatment Plant at Naspur colony. The treated water shall be used for gardening.

- Excess mine water shall be used for dust suppression after treatment in settling ponds. Wastewater generated from CHP, workshop and other wastewater shall properly collected and treated in ETP. Washings of HEMM shall be used for dust suppression and for agricultural purpose after treatment in Settling ponds, oil & grease trap. Domestic effluents from colony shall be treated in STP and treated effluents shall be reused for greenbelt, etc.
- The industry shall provide fixed water sprinklers near coal handling plant area and on permanent haul roads of the mine.
- Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly.  
  
Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression and green belt development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.
- The industry shall provide settling tanks for storm water collected at coal handling area to avoid coal ash water discharges into nearby drains finally connected to water tanks.
- The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.
- The industry shall take following measures to control water pollution :
  - Creation of water storage areas in the opencast mines for settlement of suspended solids before pumping the water out of the mine.



- Provision of oil and grease traps in HEMM workshops for treating effluents and their subsequent recycling.
  - Construction of garland drains along the dumps and along the lease area to restrict the suspended solids from entering into the natural water regime as well as to prevent storm water entering the lease area.
  - Usage of part of the mine water for dust suppression, greenbelt development, etc.
  - Establishing septic tanks followed by soak pits for treating the domestic wastewater generated from the mine office.
  - Construction of check dams/rock fill dams wherever necessary to reduce siltation.
  - Treatment of excess mine water in settling tanks to separate the suspended solids before let out into the nearby irrigation tanks/streams/agricultural lands.
9. Separate water flow meters with necessary pipe-line shall be provided for assessing the quantity of water used for spraying, water sprinkling, greenbelt development / onland irrigation, domestic purposes.
10. Industry shall install online system for monitoring of mine water quality and connect to the Board's server, as stipulated in EC. The industry shall ensure that mine water complies with surface water discharge standards before discharging into Godavari river.

#### Air:

11. Effective dust suppression system shall be adopted at the transportation site and in the other parts of the mine lease area to arrest fugitive emissions.
12. The project shall install water sprinklers system along the dedicated coal transportation route near to the village as well as in the mining site area.
13. Coal stock pile/crusher/feeder and breaker material transfer points shall be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
14. Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of PM10/ PM2.5) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Board.
15. Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient fixed type water sprinklers, mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at loading and unloading points, etc.
16. The industry shall implement following air pollution mitigation measures:
- Wet drilling and controlled blasting.
  - Use of appropriate explosives for blasting and avoiding over charging of blast holes.
  - Proper wetting of blasted coal before loading into dumpers/dump trucks.
  - Avoidance of overloading of dumpers/dump trucks.
  - Regular compaction and grading of haul roads.
  - Scheduled maintenance and periodical tuning of engines of HEMM for containing the exhaust emissions i.e. CO, SO<sub>2</sub> & NO<sub>x</sub>
  - Greenbelt development all along the mine lease area, vacant land near office buildings and plantation on OB dumps.
  - Provision of enclosed cabins for HEMM and other vehicles.
  - Extensive water sprinkling arrangement on haul roads and other dust generating sources using water Sprinklers.

➤ **Air pollution control measures at CHP:**

- Water spraying arrangements at unloading points and crushers at CHP to control dust emissions.
- Internal lining of chutes and bins to take care of abrasion & dust.
- Provision of belt conveyors of adequate width.
- Regular dust suppression by water spraying in CHP premises.
- Covering the coal loaded trucks with tarpaulin while transporting coal.
- Loading of coal up to brim level of trucks to avoid spillage.
- Black topping of permanent road link routes to CHP, permanent internal roads.
- Minimizing height of fall at coal unloading points and transfer points.
- Restricted speed of the vehicles in the project premises.
- Use of pre-weight bins to avoid overloading of trucks.

➤ **Mitigation measures in and around the opencast mine:**

- Frequently spraying water on haul roads and coal transportation roads within the mine to control fugitive dust emissions.
- Arrangements for water spraying shall be named at the pit head CHP to control fugitive dust emissions.
- To develop and maintain green belt all round the project boundary, in vacant lands within the project so as to control dust propagation.

➤ **Mitigation measures during coal transportation by road:**

- Regular dust suppression near loading and unloading points.
- Proper dust suppression system at hoppers, CHP premises and approaches to CHP area.
- Mist spray arrangement at all dry material conveying and transfer points.
- Area between various sections and truck parking areas are made of concrete/bitumen/brick work.
- Road & approach roads are made of bitumen/concrete.
- To ensure that coal transport trucks are filled up to brim level to avoid coal spillage during transport.
- All the coal transport trucks shall be covered with good quality tarpaulin sheet having tying arrangement with ropes to avoid spillages and flying of coal dust during the transportation of coal from the loading point to unloading point.
- Coal transport vehicles shall be taken up for periodic maintenance for tuning of engines in order to control vehicular exhaust emissions.
- During vehicular maintenance fuel leakages are being checked.
- During periodic checks of trucks, condition of body with respect to leakages is being checked and steps are taken to prevent coal spillages during movement of trucks on the public roads.

17. The industry shall implement following noise pollution mitigation measures:

- Formulation and implementation of suitable blast design parameters such as burden, spacing, charge per delay etc. for different coal/OB types.
- Controlled blasting techniques by using NONELs to minimize the noise and vibration.
- Procurement of HEMM with acoustically designed operator's cabins.
- Proper maintenance and tuning of HEMM and other machinery.
- Greenbelt with species of rich canopy around the lease area and along the roads, to attenuate the noise levels. The greenbelt will act as noise attenuator.
- Use of personal protective devices i.e., earmuffs and earplugs by workers, working in high noise activity centre.

➤ **Measures for controlling noise and blast vibrations:**

- Controlled blasting technique using non-electric (NONEL) delay defonators to reduce blast vibrations substantially.
- Regulating Charge per delay to minimize blast vibrations.
- Optimum delay sequences and stem to column ratio to minimize the fly rock distance and ground vibration intensity.
- Basing on the distance of the nearest sensitive areas from the epicenter of the blast, charge weight alteration to meet the stipulated standards.
- Design of optimum blast hole geometry considering bench height, diameter of hole, type of explosive, nature of rock, level of fragmentation required etc.
- Carrying out blasting operations only during day time.
- Drilling, charging and blasting operations under strict supervision as per DGMS stipulations.
- Avoidance of secondary blasting.
- Ensuring free faces for effective blasting operations.
- Muffled blasting will be implemented wherever situation warrants.

18. The industry shall provide Mist Spraying System in Coal Handling Plant to control the SPM emissions.

19. Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks / conveyors. Effective control measures such as regular water / mist / rain gun shall be carried out in haul road, loading / unloading and transfer points.

20. Regular clearing / sweeping of dust on the coal transportation roads shall be taken up.

21. Industry shall maintain and operate continuous ambient air quality monitoring station.

22. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MOE&F, GOI, vide notification No. GSR 826(E), dated. 18.11.2009 during construction and regular operational phase of the project.

23. Coal stock pile / crusher / feeder and breaker material transfer points shall be provided with dust suppression system. Belt conveyors shall be fully covered and side cladding all along the conveyor gantry shall be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.

**Solid Waste:**

19. The industry shall comply with the following after expansion:

Sl.No.	Description of the waste	Quantity	Mode of disposal
1	Overburden material	--	Will be used for backfilling

20. Industry shall comply with the following for Over Burden Dumps:

- Separate spoil dumps for topsoil and hard overburden.
- Maximum height of top soil dump is 10 meters.
- Hard overburden will be dumped in 30 m high decks upto a maximum height of 80 m in external dump yard and upto 60 m in internal OB dump.
- 30 m berm width for safe transport.
- Toe wall of atleast 15 m to 20 m height should be constructed along the OB dump.
- Dump slope for each deck to be at natural repose of  $37\frac{1}{2}^{\circ}$  and overall slope at  $26.5^{\circ}$ .
- Track dozers to be deployed for shaping the dumps and dozing of overburden.
- Top soil to be spread over dump slopes and non-active dump area for reclamation.

21. The over burden (OB) shall be completely re-handled at the end of mining.

22. The following Rules and Regulations notified by the MoE&F, GoI shall be implemented:

- a) Hazardous waste and other wastes (Management and Transboundary movement), Rules, 2016.



- b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- c) Batteries Waste Management Rules, 2022.
- d) E-Waste (Management) Rules, 2022.
- e) The Plastic Waste Management Rules, 2016.
- f) Bio-Medical Waste Management Rules, 2016 and its Amendment Rules, 2018.
- g) Solid Waste Management Rules, 2016.
- h) Construction and Demolition Waste Management Rules, 2016.

**Other Conditions:**

- 23. The Industry shall install one CAAQM Station in buffer zone as per the Consent condition and connect the same to the TSPCB website. The industry shall ensure that that online CAAQM stations in the core zone and buffer zone is in continuous streamlining with the TSPCB website so as to monitor PM10, PM2.5, SOx, NOx parameters continuously.
- 24. The Industry comply the EC conditions, direction of Hon'ble courts if any and taskforce directions issued from time to time.
- 25. The industry shall install CC cameras to ensure that no coal transporting Lorries shall pass without complete covering with tarpaulins.
- 26. Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt shall be developed all along the major approach/ coal transportation roads.
- 27. Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions of Fly ash Notification dt. 03.11.2009 as amended from time to time.
- 28. A separate environmental management cell with suitable qualified personnel shall be set up.
- 29. The proponent shall obtain necessary permissions for the proposed activity, from the concerned Government departments / concerned authorities.
- 30. The proponent shall comply with all the directions issued by the Board from time to time.

**Sd/-  
MEMBER SECRETARY**

**To  
M/s. SCCL, Srirampur Opencast-II Expansion Project,  
Srirampur Area, Ramaraopet (V),  
Mancherla (Mandal & District).**

**// T.C.F.B.O //**

*Y. S. Reddy*

**Joint Chief Environmental Engineer**



**TELANGANA STATE POLLUTION CONTROL BOARD**  
**PARYAVARAN BHAVAN, A - 3, INDUSTRIAL ESTATE,**  
**SANATHNAGAR, HYDERABAD - 500 018**

Phone: 23837500  
Fax: 040 - 23815631  
Website: tspcb.cgg.gov.in

**CONSENT ORDER (EXPANSION)**  
**RED CATEGORY**

**Consent Order No : 230524408222**

**Dt.14.07.2023**

(Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof, Operation of the plant under section 24/25 of the (Prevention & Control of Pollution) Act 1981 and amendments thereof.

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof, (hereinafter referred to as 'the Acts', 'the Rules' and the rules and orders made there under to M/s.Singareni Collieries Co.Ltd., SRP OCP-II Expansion at Srirampur Area, Naspur (M), Mancherla District (hereinafter referred to as 'the Applicant /Industry') and the mine is authorized to operate the industrial plant to discharge the Effluents from the outlets, as detailed below,

**i) Out lets for discharge of Effluents:**

Outlet No.	Description of Outlet	Max Daily Discharge in KLD	Point of Disposal
1	Process & wash (Mine discharge water & Vehicle washings) after treatment	3492.0	Treatment in settling ponds. The supernatant shall be utilized for dust suppression, vehicle washings, plantations & domestic purpose. The rest of the supernatant shall be discharged into nearby irrigation tanks.
2	Domestic	17.0	Shall be treated in 3 MLD STP at Naspur Colony and the treated water shall be used for gardening.

This consent order is valid for Mining of Coal In Mine lease area of 1604.11 Ha for the following capacity:

SL No	Line of activity	Capacity
1	Open cast Coal mining	3.5 Million TPA

**Raw materials / Fuels required for production:**

S.No	Name of the Major Raw material	Total after expansion
1)	Explosives	89912 Kg/day
2)	Lubricant Oils	8.83 Kg/month
3)	Diesel	3928 Kl/month

This order is subject to the provisions of 'the Acts' and the Rules' and amendments made thereunder and further subject to the terms and conditions incorporated in the schedule A and B enclosed to this order.

This Consent order is valid for a period upto 28.02.2028.

Sd/-  
MEMBER SECRETARY

To  
M/s. Singareni Collieries Co. Ltd.,  
SRP OCP-II Expansion at Srirampur Area,  
Nasipur (M), Mancherial District

///T.C.F.B.O///

*M. Praveen* 14/7/2023

SENIOR ENVIRONMENTAL ENGINEER  
(CFO - UNIT-III)

*(Signature)*

### **SCHEDULE - A**

1. The applicant shall make applications through online for renewal of Consent (under Water & Air Acts) and Authorisation under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorisation of the Board. The applicant can also apply for Auto Renewal of the CFO atleast 30 days before the expiry of this order as per the procedure and eligibility stipulated in the Board Circular dt.19.11.2015 & 08.12.2015 (available in Board's Website: <http://tspcb.cgg.gov.in/Pages/Circulars.aspx>).
2. This order is issued in line with Board's CFE (expansion) order dt. 20.05.2023. Concealing the factual data or submission of false information/ fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts. The mine shall comply with all other conditions of CFE (expansion) order dt. 20.05.2023 is still applicable.
3. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Rules, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.
4. The mine may explore the possibility of tapping the solar energy for their energy requirements.
5. The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.

### **SCHEDULE - B**

1. Total Water Consumption shall not exceed 1508.0 KLD

S. No	Purpose	Quantity (KLD)
1.	Dust suppression	886
2.	Washings	200
3.	Domestic	22
4.	Green belt / Plantation	400
Total:		1508 KLD

2. The effluent discharged should not contain constituents in excess of the tolerance limits prescribed below.

Outlet No.	Parameter	Limiting Standards
1 & 2	pH	5.5 – 9.0
	Total Suspended Solids (TSS)	100 mg/l
	Oil & Grease	10 mg/l
	BOD (3 days at 27°C)	30 mg/l
	Chemical Oxygen Demand (COD)	250mg/l
	Total Dissolved Solids(TDS)	2100mg/l

3. The mine should ensure segregation of Acid Mine Discharges (AMD) from abandoned mines, coal stocks, coal handling facilities, washeries & coal waste tips etc. and should adopt adequate treatment to achieve prescribed standards for the AMD as stipulated at S.No.2 prior to disposal. The plan of action for segregation of AMD, technology of the proposed treatment and mode of disposal should be submitted to Board.

4. The mine shall comply with ambient air quality standards of  $PM_{10}$  (Particulate Matter size less than  $10 \mu m$ ),  $PM_{2.5}$  (Particulate Matter size less than  $2.5 \mu m$ ) -  $60 \mu g/m^3$ ,  $SO_2$  -  $80 \mu g/m^3$ ,  $NO_x$  -  $80 \mu g/m^3$ , outside the factory premises at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009

Noise Levels: Day time - (6 AM to 10 PM) - 75 dB (A)

Night time - (10 PM to 6 AM) - 70 dB (A).

5. The existing CFO order dt. 25.02.2021 with a validity upto 31.03.2026 stands cancelled.
6. The mine has paid CFO fee of Rs.14,34,800/- for a period upto 31.03.2025.
7. The industry shall pay balance consent fee annually as per rates notified in G.O.Ms.No 22. The payment of annual consent fee shall be made at the concerned RO for every financial year (i.e., April to March) within the stipulated time period i.e., 1st quarter of every financial year (April to June) is mandatory for the industry / project, failing which, the validity of the Consent Order automatically stands cancelled and operation industry / project without valid consent attracts penal action under the provision of Water Act, Air Act & Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
8. The mine either paying annual fee or total fee for Consented period, shall pay the balance fee as per the revised rates as applicable from time to time.
9. The mine shall not produce beyond the permitted capacity as mentioned in this order, without obtaining prior CFE & CFO of the Board. The mining capacity of the coal also shall not be increased more than IBM approved capacity.
10. The mine shall maintain separate water meters for recording water consumption for various purposes and also maintain daily records.
11. The mine shall provide fixed water sprinklers along the permanent haul roads of the mine within three months.
12. The mine shall maintain the water spraying system properly by adopting preventive maintenance schedule to avoid fugitive dust emissions.
13. The mine shall maintain separate water meters for recording water consumption for various purposes and also maintain daily records.
14. The mine shall develop and maintain greenbelt as per norms.
15. The mine shall maintain one CAAQM station and connect to the TSPCB server as per CPCB directions.
16. The mine shall install and maintain 3 fixed AAQM stations in core area for conducting AAQ monitoring and submit reports to the RO, Nizamabad.
17. The mine should comply with standards applicable to coal mining for core zone as per GSR 742 (E) dated 25<sup>th</sup> September 2000 issued by MOEF&CC and also comply with National Ambient Air Quality Standards (NAAQS) in the buffer zone.
18. The mine shall clean the roads regularly by procuring mechanical sweeping machine within five months to avoid fugitive emissions as committed.
19. The Mine shall maintain water mist sprayers at coal bunkers to control fugitive emissions.
20. The mine shall take effective measures such as covering coal transport vehicles with tarpaulins, mechanical sweeping of roads, etc to avoid fugitive emissions.
21. The mine shall use atleast 25% of fly ash on volume to volume basis on the total materials used for external dump of overburden and same percentage in upper benches of back filling of open cast mines, as per Fly Ash Notification.

22. The mine shall comply with MOEF Notification No.GSR.02 (E), dt. 02.01.2014 for supply of coal with Ash content not exceeding 34% to coal based Thermal Power plants.
23. The personnel working in dusty areas should wear protective / respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
24. Blasting should be sequential in such a manner as to achieve minimum vibration.
25. The mine shall comply with the following for controlling air pollution
  - To avoid the dust generation from the drilling operations, wet-drilling should be done.
  - Use of appropriate explosives for controlled blasting and avoid overcharging the blast holes.
  - The volume of dust rising from dumps by the action of wind should be controlled significantly by planting grasses on slopes and plants on dumps soon after their formation.
  - To overcome the problems of dust generation from mine haul roads, the following steps should be adopted.
    - Black topping of permanent roads like routes to coal handling plant, permanent internal roads etc.
    - Water spraying on haul roads and permanent transport routes at required frequencies. Provision should be made for procurement of six water sprinklers for this purpose.
    - Avenue plantation along roads should be adopted.
  - Effective dust suppression measures are proposed to be taken up at pit head coal handling plant (CHP). The crusher house should be enclosed to the extent possible and dust suppression arrangement should be provided at suitable locations in the CHP. All the conveyors, screens, crusher etc., should be provided with covers to avoid fugitive dust emission. The following measures to control dust emission include:
    - Height of fall to be minimized at all coal transfer points.
    - Internal lining of chutes and bins should be done to take care of abrasion & dust.
26. Dumping of overburden, if done, shall use the retreating pyramid bench formation with concurrent physical and biological reclamation. Dumps should be contoured and provided with relief control and stabilized. Dump tops should be compacted, leveled and be properly drained.
27. Soil binding and nitrogen fixing plants should plant in the Mining Lease Area. Biological reclamation should be done in two phase the first phase should be plant appropriate quick growing grass and shrubs and the second phase should grow slower native shrubs and trees.
28. Ground water table levels should be monitored every season. Any lowering of the ground water table in comparison to the previous season should be reported to the Board immediately. Discarded pits should be allowed to fill with water.
29. Vehicles should be well maintained and engine idling should be minimized. Vehicle cabs should be made dust-proof.
30. All waste material should be accommodated within the Mining Lease Area.
31. The natural drainage of water should be maintained. Dump sites should not cross any streams, water flow from the Mining Lease Area, even during the monsoon, should be free of suspended matter and conform to prescribed water quality standards.
32. Check dams and filter beds should be constructed to protect from streams runoffs.



33. The industry shall maintain the CC roads towards weight bridge bypass from existing BT road.
34. The industry shall operate CC cameras to ensure that no coal transporting lorries shall pass without complete covering with tarpaulins.
35. The mine shall comply with the directions issued by the Board from time to time.
36. The mine shall submit the analysis reports of the mine discharge water to RO Nizamabad regularly.
37. The applicant should submit Environment statement in Form V before 30<sup>th</sup> September of every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
38. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991, should be followed.
39. The conditions stipulated in this order are without any prejudice to rights and contentions of this Board in any Hon'ble court of Law.

Sd/-  
**MEMBER SECRETARY**

**To**  
M/s.Singareni Collieries Co.Ltd.,  
SRP OCP-II Expansion at Srirampur Area,  
Naspur (M), Mancherial District

///T.C.F.B.O///

*M. Phani* 14/7/2023

**SENIOR ENVIRONMENTAL ENGINEER**  
(CFO - UNIT-III)

*(Signature)*



**ANNEXURE-III.****Surface Water Sampling Locations**

<b>Sl. No.</b>	<b>Sample code</b>	<b>Date of sampling</b>	<b>Sampling Location</b>	<b>Latitude</b>	<b>Longitude</b>
1.	SW-1	14.03.2024	Godavari River Upstream (near sitharampalli)	N 18° 49' 33.5"	E 79° 28' 21.5"
2.	SW-2	14.03.2024	Godavari River Downstream (shettipalli)	N 18° 53' 41.8"	E 79° 40' 32.6"
3.	SW-3	14.03.2024	Nasipur Tank	N 18° 52' 5"	E 79° 47' 15"

**Groundwater Sampling Locations**

<b>Sl. No.</b>	<b>Sample code</b>	<b>Date of sampling</b>	<b>Sampling Location</b>	<b>Latitude</b>	<b>Longitude</b>
1	GW-3	14.03.2024	Ramaraopet Village	N 18° 49' 20.8"	E 79° 30' 53.1"
2	GW-4	14.03.2024	Srirampur Village	N 18° 51' 18.4"	E 79° 29' 28.7"

## Physico-Chemical and Bacteriological Characteristics of Surface Water

### Physico-Chemical and Bacteriological Characteristics of Surface Water as per CPCB Water Quality Criteria

Sl.No	Parameters	Unit	Test Method	CPCB Water Quality Criteria					RESULT		
				Class A	Class B	Class C	Class D	Class E	SW-1 Godavari River Upstream	SW-2 Godavari River Downstream	SW-3 Nasipur Tank
1	pH	-	4500-H+B	6.5-8.5	6.5-8.5	6.0 – 9.0	6.5-8.5	6.0-8.5	8.2	8.5	8.5
2	Electrical Conductivity	µmhos/cm	2510-B	-	-	-	-	2250 µmhos/cm	798	810	945
3	Dissolved Oxygen (DO)	mg/l	4500-O.C	6 mg/l or more	5 mg/l or more	4 mg/l or more	4 mg/l or more	-	6.5	6.2	5.6
4	Bio chemical Oxygen Demand (3 days 27° C)	mg/l	IS: 3025	2 mg/l or less	3 mg/l or less	3 mg/l or less	-	-	2.4	3.0	3.4
5	Total Coliforms	MPN/100ml	9221 B	50 or less	500 or less	5000 or less	-	-	170	220	350
6	Free Ammonia (as N)	mg/l	4500-NH <sub>3</sub> -F	-	-	-	1.2 mg/l or less	-	BDL	BDL	BDL
7	Boron as B	mg/l	3120-B	-	-	-	-	Less than 2 mg/l	0.08	0.15	0.21
8	SAR	-	-	-	-	-	-	Less than 26	1.23	1.45	2.46

### Physico-Chemical Characteristics of Surface Water at Selected Locations in the Study Area

S. No	Parameters	Unit	Test Method	SW-1 Godavari River Upstream	SW-2 Godavari River downstream	SW-3 Naspur Tank
1	Colour	Hazen	2120. B	5	5	5
2	Odour	TON	2150. B	No odour observed	No odour observed	No odour observed
3	Temperature	°C	2550. B	25.3	25.4	25.2
4	Turbidity	NTU	2130. B	1.23	2.22	6.93
5	Total Dissolved Solids at 180° C	mg/l	2540.C	466	485	555
6	Total Suspended Solids at 105° C	mg/l	2540. D	12	14	12
7	Chemical Oxygen Demand	mg/l	5220. D	10	10	12
8	Calcium as Ca	mg/l	3500-Ca.B	54	60	48
9	Magnesium as Mg	mg/l	3500-Mg.B	43	56	35
10	Sodium as Na	mg/l	3500-Na.B	50	65	92
11	Potassium as K	mg/l	3500-K.B	5.2	6.0	5.5
12	Chlorides as Cl <sup>-</sup>	mg/l	4500-Cl.B	79	85	127
13	Sulphates as SO <sub>4</sub> <sup>2-</sup>	mg/l	4500-SO <sub>4</sub> <sup>2-</sup> .E	68	82	101
14	Fluoride as F <sup>-</sup>	mg/l	4500-F.C	0.82	0.85	0.7
15	Nitrates as NO <sub>3</sub>	mg/l	4500-NO <sub>3</sub> .B	0.43	0.59	10.27
16	Nitrites as NO <sub>2</sub>	mg/l	4500-NO <sub>2</sub> .B	BDL	BDL	0.013
17	Total Phosphates	mg/l	4500-P-D	0.12	BDL	0.38
18	Ammonical Nitrogen as NH <sub>3</sub> -N	mg/l	4500-NH <sub>3</sub> -C	BDL	BDL	BDL
19	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	5530-D	BDL	BDL	BDL
20	Oil & Grease	mg/l	5520. B	<1	<1	<1
21	Carbonates as CO <sub>3</sub>	mg/l	2320. B	Nil	Nil	Nil
22	Bi-carbonates as HCO <sub>3</sub>	mg/l	2320. B	260	300	210
23	Fecal Coliforms	MPN/100ml	9221 E	23	33	79

S. No	Parameters	Unit	Test Method	SW-1 Godavari River Upstream	SW-2 Godavari River downstream	SW-3 Nasapur Tank
24	Zinc as Zn	mg/l	3120. B	0.17	0.23	0.09
25	Iron as Fe	mg/l	3120. B	0.42	0.71	0.68
26	Arsenic as As	mg/l	3120. B	BDL	BDL	BDL
27	Lead as Pb	mg/l	3120. B	BDL	BDL	BDL
28	Cadmium as Cd	mg/l	3120. B	BDL	BDL	BDL
29	Total Chromium as Cr	mg/l	3120. B	BDL	BDL	BDL
30	Nickel as Ni	mg/l	3120. B	BDL	BDL	BDL
31	Copper as Cu	mg/l	3120-B	BDL	BDL	BDL
32	Selenium as Se	mg/l	3120-B	BDL	BDL	BDL

### Physico-Chemical, Bacteriological Characteristics of Groundwater Collected within the Study Area

#### Organoleptic and Physical Parameters

Sl. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT	
						GW-3 Ramaraopet Village	GW-4 Srirampur Village
4.	Colour	Hazen	2120. B	5	15	5	<5
5.	Odour	TON	2150. B	Agreeable	Agreeable	Agree.	Agree.
6.	pH	-	4500-H+B	6.5 to 8.5	No relaxation	8	7.9
7.	Taste	FTN	2160. B	Agreeable	Agreeable	Agree.	Agree.
8.	Turbidity	NTU	2130. B	1	5	0.5	0.1
9.	Total Dissolved Solids at 180° C	mg/l	2540.C	500	2000	770	750

**General Parameters Concerning Substances Undesirable in Excessive Amounts**

Sl. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in absence of alternate source	RESULT	
						GW-3 Ramaraopet Village	GW-4 Srirampur Village
10.	Calcium as Ca	mg/l	3500-Ca.B	75	200	74	80
11.	Magnesium as Mg	mg/l	3500-Mg.B	30	100	68	56
12.	Chlorides as Cl-	mg/l	4500-Cl-.B	250	1000	125	102
13.	Sulphates as SO42-	mg/l	4500-SO42-.E	200	400	167	150
14.	Fluoride as F-	mg/l	4500-F.C	1.0	1.5	1.29	0.95
15.	Nitrates as NO3	mg/l	4500-NO3-.B	45	No relaxation	10	12
16.	Total Alkalinity as CaCO3	mg/l	2320. B	200	600	380	410
17.	Total Hardness as CaCO3	mg/l	2340. C	200	600	465	430
18.	Sulphide as H2S	mg/l	4500-S2-F&D	0.05	No relaxation	BDL	BDL
19.	Total Ammonia-N	mg/l	IS 3025 (Part 34)	0.5	No relaxation	BDL	BDL
20.	Phenolic compounds as C6H5OH	mg/l	5530-D	0.001	0.002	BDL	BDL
21.	Residual free chlorine	mg/l	4500-Cl-.B	0.2	1.0	BDL	BDL
22.	Mineral oil	mg/l	IS:3025 (part 39)	1.0	No relaxation	absent	Absent
23.	Anionic Detergents (as MBAS)	mg/l	IS:13428:2005K	0.2	1.0	<0.2	<0.2
24.	Aluminium as Al	mg/l	3120-B	0.03	0.2	0.06	BDL
25.	Barium as Ba	mg/l	3120. B	0.7	No relaxation	0.22	0.25
26.	Boron as B	mg/l	3120-B	0.5	2.4	0.13	0.23
27.	Iron as Fe	mg/l	3120-B	1.0	No relaxation	0.72	0.58
28.	Zinc as Zn	mg/l	3120-B	5	15	0.18	0.12
29.	Copper as Cu	mg/l	3120-B	0.05	1.5	BDL	0.07

30.	Manganese as Mn	mg/l	3120-B	0.1	0.3	BDL	0.07
31.	Selenium as Se	mg/l	3120-B	0.01	No relaxation	BDL	BDL
32.	Silver as Ag	mg/l	3120. B	0.1	No relaxation	BDL	BDL

### Parameters Concerning Toxic Substances

S. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT	
						GW-3 Ramaraopet Village	GW-4 Srirampur Village
1.	Cadmium as Cd	mg/l	3120-B	0.003	No relaxation	BDL	BDL
2.	Cyanide as CN-	mg/l	4500-CN.F	0.05	No relaxation	BDL	BDL
3.	Lead as Pb	mg/l	3120-B	0.01	No relaxation	BDL	BDL
4.	Molybdenum as Mo	mg/l	3120. B	0.07	No relaxation	BDL	BDL
5.	Nickel as Ni	mg/l	3120-B	0.02	No relaxation	BDL	BDL
6.	Total Arsenic as As	mg/l	3120-B	0.01	0.05	BDL	BDL
7.	Total Chromium as Cr	mg/l	3120-B	0.05	No relaxation	BDL	BDL
8.	Mercury as Hg	µg/l	3500-Hg.B	0.001	No relaxation	BDL	BDL
9.	<b>Pesticides:</b> α-BHC, β-BHC, γ-BHC, δ-BHC, o,p-DDT, p,p' -DDT, Endosulfan, β- Endosulfan, Aldrin, Dieldrin	µg/l	6630. D	Absent	0.001	ND	ND
	2,4-D, Carbaryl (Carbonate) Malathion Methyl Parathion Anilophos, Chloropyriphos	Qualitative analysis	6630. D	Absent	0.001	ND	ND
10.	<b>Polyaromatic Hydrocarbons (PAH's):</b> Acenaphthene, Acenaphthylene, Anthracene, B(a)A, B(a)P, B(b)F, B(k)F, Pyrene, Dibenz (a,h) anthracene, Fluoranthene, Fluorene, Indeno (1,2,3-(d) Pyrene, Naphthalene, Phenanthrene, Pyrene, Methyl Naphthalene	µg/l	6440.C	-	-	ND	ND



### Bacteriological Quality of Drinking water

S. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT	
						GW-3 Ramaraopet Village	GW-4 Srirampur Village
1	Total Coliforms	MPN/100 ml	9221 B	-	-	<1.8	<1.8
2	Fecal Coliforms	MPN/100 ml	9221 E	-	-	<1.8	<1.8

NTU – Nephelometric Turbidity Unit; BDL – Below Detection Limit Detection Limits of Aluminium (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Boron (B), Cadmium (Cd), Chromium (Cr)/Total Chromium, Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Magnesium (Mg), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Nickel (Ni), Selenium (Se), Silver (Ag), Vanadium (V), Zinc (Zn), \ Phenols is 0.01mg/l. Detection Limit of Mercury (Hg), Phosphates/Total Phosphates, Nitrites NO<sub>2</sub>, Free Ammonia, Total Ammonia is 0.02mg/l. Detection Limits of Potassium (K), Sodium (Na) is 0.03mg/l. Detection Limits of Cyanide (CN), Sulfide (S<sub>2</sub>), Hexavalent Chromium Cr+6 is 0.05mg/l. Detection Limits of Nitrates as NO<sub>3</sub>, Fluoride is 0.1mg/l. Detection Limits of Residual Free chlorine, Free Available chlorine, O&G is 1mg/l. Detection Limits of Sulfate SO<sub>4</sub><sup>2-</sup>, Ammonical Nitrogen, \ Total Kjeldahl Nitrogen (TKN), COD, Total Nitrogen (TN) is 5mg/l. BOD-3mg/l. ND-Not Detected; Detection Limit: Pesticides– 0.1 ppm; PAHs – 1 ppm.

### Surface Water Sampling Locations

Sl. No.	Sample code	Date of sampling	Sampling Location	Latitude	Longitude
33.	SW-1	11.06.2024	Godavari River Upstream (near Sitharampalli)	N 18° 49' 33.5"	E 79° 28' 21.5"
34.	SW-2	11.06.2024	Godavari River Downstream (Shettipalli)	N 18° 53' 41.8"	E 79° 40' 32.6"
35.	SW-4	11.06.2024	Ramaraopet Tank	N 18°49'9"	E 79°31'6"

### Groundwater Sampling Locations

Sl. No.	Sample code	Date of sampling	Sampling Location	Latitude	Longitude
1	GW-3	11.06.2024	Ramaraopet Village	N 18° 49' 20.8"	E 79° 30' 53.1"
2	GW-4	11.06.2024	Sitharampalli Village	N 18° 50' 25.7"	E 79° 28' 27.2"
3	GW-7	11.06.2024	Srirampur Village	N 18° 51' 18.4"	E 79° 29' 28.7"
4	GW-8	11.06.2024	Indaram Village	N 18° 49' 14.8"	E 79° 31' 58.8"

## Physico-Chemical and Bacteriological Characteristics of Surface Water

### Physico-Chemical and Bacteriological Characteristics of Surface Water as per CPCB Water Quality Criteria

Sl.No	Parameters	Unit	Test Method	CPCB Water Quality Criteria					RESULT		
				Class A	Class B	Class C	Class D	Class E	SW-1 Godavari River Upstream	SW-2 Godavari River downstream	SW-4 Ramaraopet Tank
1	pH	-	4500-H+B	6.5-8.5	6.5-8.5	6.0 – 9.0	6.5-8.5	6.0-8.5	8.5	8.4	7.7
2	Electrical Conductivity	µmhos/cm	2510-B	-	-	-	-	2250 µmhos/cm	755	920	1750
3	Dissolved Oxygen (DO)	mg/l	4500-O.C	6 mg/l or more	5 mg/l or more	4 mg/l or more	4 mg/l or more	-	6.4	6.0	5.3
4	Bio chemical Oxygen Demand (3 days 27° C)	mg/l	IS: 3025	2 mg/l or less	3 mg/l or less	3 mg/l or less	-	-	2.8	3.0	4.0
5	Total Coliforms	MPN/100ml	9221 B	50 or less	500 or less	5000 or less	-	-	220	220	540
6	Free Ammonia (as N)	mg/l	4500-NH <sub>3</sub> -F	-	-	-	1.2 mg/l or less	-	BDL	BDL	BDL
7	Boron as B	mg/l	3120-B	-	-	-	-	Less than 2 mg/l	0.08	0.12	0.17
8	SAR	-	-	-	-	-	-	Less than 26	1.01	1.75	2.13

### Physico-Chemical Characteristics of Surface Water at Selected Locations in the Study Area

S. No	Parameters	Unit	Test Method	SW-1 Godavari River Upstream	SW-2 Godavari River downstream	SW-4 Ramaraopet Tank
1	Colour	Hazen	2120. B	5	5	10
2	Odour	TON	2150. B	No odour observed	No odour observed	No odour observed
3	Temperature	°C	2550. B	25	26.8	25.7
4	Turbidity	NTU	2130. B	2.8	4.7	4.6
5	Total Dissolved Solids at 180° C	mg/l	2540.C	450	535	1025
6	Total Suspended Solids at 105° C	mg/l	2540. D	14	18	18
7	Chemical Oxygen Demand	mg/l	5220. D	20	20	24
8	Calcium as Ca	mg/l	3500-Ca.B	52	50	104
9	Magnesium as Mg	mg/l	3500-Mg.B	45	43	95
10	Sodium as Na	mg/l	3500-Na.B	41	70	125
11	Potassium as K	mg/l	3500-K.B	4.9	8.04	6.3
12	Chlorides as Cl <sup>-</sup>	mg/l	4500-Cl <sup>-</sup> .B	65	94	216
13	Sulphates as SO <sub>4</sub> <sup>2-</sup>	mg/l	4500-SO <sub>4</sub> <sup>2-</sup> .E	61	70	194
14	Fluoride as F <sup>-</sup>	mg/l	4500-F <sup>-</sup> .C	0.47	0.53	0.39
15	Nitrates as NO <sub>3</sub>	mg/l	4500-NO <sub>3</sub> <sup>-</sup> .B	7.8	10	8.2
16	Nitrites as NO <sub>2</sub>	mg/l	4500-NO <sub>2</sub> <sup>-</sup> .B	BDL	BDL	BDL
17	Total Phosphates	mg/l	4500-P-D	BDL	BDL	BDL
18	Ammonical Nitrogen as NH <sub>3</sub> -N	mg/l	4500-NH <sub>3</sub> -C	BDL	BDL	BDL
19	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	5530-D	BDL	BDL	BDL
20	Oil & Grease	mg/l	5520. B	<1	<1	<1

S. No	Parameters	Unit	Test Method	SW-1 Godavari River Upstream	SW-2 Godavari River downstream	SW-4 Ramaraopet Tank
21	Carbonates as CO <sub>3</sub>	mg/l	2320. B	Nil	Nil	Nil
22	Bi-carbonates as HCO <sub>3</sub>	mg/l	2320. B	280	305	445
23	Fecal Coliforms	MPN/100ml	9221 E	33	46	110
24	Zinc as Zn	mg/l	3120. B	0.1	0.15	0.16
25	Iron as Fe	mg/l	3120. B	0.56	0.49	0.63
26	Arsenic as As	mg/l	3120. B	BDL	BDL	BDL
27	Lead as Pb	mg/l	3120. B	BDL	BDL	BDL
28	Cadmium as Cd	mg/l	3120. B	BDL	BDL	BDL
29	Total Chromium as Cr	mg/l	3120. B	BDL	BDL	BDL
30	Nickel as Ni	mg/l	3120. B	BDL	BDL	BDL
31	Copper as Cu	mg/l	3120-B	BDL	BDL	BDL
32	Selenium as Se	mg/l	3120-B	BDL	BDL	BDL

### Physico-Chemical, Bacteriological Characteristics of Groundwater Collected within the Study Area

#### Organoleptic and Physical Parameters

S. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT			
						GW-3 Ramaraopet	GW-4 Srirampur	GW-7 Sitarampalli	GW-8 Indaram
1.	Colour	Hazen	2120. B	5	15	<5	<5	<5	<5
2.	Odour	TON	2150. B	Agreeable	Agreeable	Agree.	Agree.	Agree.	Agree.
3.	pH	-	4500-H <sup>+</sup> B	6.5 to 8.5	No relaxation	8.1	7.7	7.5	7.2
4.	Taste	FTN	2160. B	Agreeable	Agreeable	Agree.	Agree.	Agree.	Agree.

5.	Turbidity	NTU	2130. B	1	5	0.2	0.54	0.88	0.2
6.	Total Dissolved Solids at 180°C	mg/l	2540.C	500	2000	726	905	630	1055

### General Parameters Concerning Substances Undesirable in Excessive Amounts

S. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT			
						GW-3 Ramaraopet	GW-4 Srirampur	GW-7 Sitarampalli	GW-8 Indaram
1.	Calcium as Ca	mg/l	3500-Ca.B	75	200	70	65	64	98
2.	Magnesium as Mg	mg/l	3500-Mg.B	30	100	64	62	52	90
3.	Chlorides as Cl-	mg/l	4500-Cl-.B	250	1000	177	228	132	283
4.	Sulphates as SO <sub>4</sub> <sup>2-</sup>	mg/l	4500-SO <sub>4</sub> <sup>2-</sup> .E	200	400	79	92	39	75
5.	Fluoride as F-	mg/l	4500-F-.C	1.0	1.5	1.02	0.41	0.19	0.5
6.	Nitrates as NO <sub>3</sub>	mg/l	4500-NO <sub>3</sub> -.B	45	No relaxation	8	36	13	55
7.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	2320. B	200	600	360	395	390	495
8.	Total Hardness as CaCO <sub>3</sub>	mg/l	2340. C	200	600	438	418	374	615
9.	Sulphide as H <sub>2</sub> S	mg/l	4500-S <sub>2</sub> -F&D	0.05	No relaxation	BDL	BDL	BDL	BDL
10.	Total Ammonia-N	mg/l	IS 3025 (Part 34)	0.5	No relaxation	BDL	BDL	BDL	BDL
11.	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	5530-D	0.001	0.002	BDL	BDL	BDL	BDL
12.	Residual free chlorine	mg/l	4500-Cl-.B	0.2	1.0	BDL	BDL	BDL	BDL
13.	Mineral oil	mg/l	IS:3025 (part 39)	1.0	No relaxation	absent	absent	absent	absent
14.	Anionic Detergents (as MBAS)	mg/l	IS:13428:2005K	0.2	1.0	<0.2	<0.2	<0.2	<0.2
15.	Aluminium as Al	mg/l	3120-B	0.03	0.2	0.09	0.05	0.06	0.09
16.	Barium as Ba	mg/l	3120. B	0.7	No relaxation	0.31	0.19	0.11	0.18
17.	Boron as B	mg/l	3120-B	0.5	2.4	0.11	0.24	0.25	0.21



18.	Iron as Fe	mg/l	3120-B	1.0	No relaxation	0.81	0.73	0.55	0.61
19.	Zinc as Zn	mg/l	3120-B	5	15	0.15	0.06	0.15	0.13
20.	Copper as Cu	mg/l	3120-B	0.05	1.5	BDL	BDL	BDL	BDL
21.	Manganese as Mn	mg/l	3120-B	0.1	0.3	BDL	BDL	BDL	BDL
22.	Selenium as Se	mg/l	3120-B	0.01	No relaxation	BDL	BDL	BDL	BDL
23.	Silver as Ag	mg/l	3120. B	0.1	No relaxation	BDL	BDL	BDL	BDL

### Parameters Concerning Toxic Substances

S. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT			
						GW-3 Ramaraopet	GW-4 Srirampur	GW-7 Sitarampalli	GW-8 Indaram
1	Cadmium as Cd	mg/l	3120-B	0.003	No relaxation	BDL	BDL	BDL	BDL
2	Cyanide as CN-	mg/l	4500-CN.F	0.05	No relaxation	BDL	BDL	BDL	BDL
3	Lead as Pb	mg/l	3120-B	0.01	No relaxation	BDL	BDL	BDL	BDL
4	Molybdenum as Mo	mg/l	3120. B	0.07	No relaxation	BDL	BDL	BDL	BDL
5	Nickel as Ni	mg/l	3120-B	0.02	No relaxation	BDL	BDL	BDL	BDL
6	Total Arsenic as As	mg/l	3120-B	0.01	0.05	BDL	BDL	BDL	BDL
7	Total Chromium as Cr	mg/l	3120-B	0.05	No relaxation	BDL	BDL	BDL	BDL
8	Mercury as Hg	µg/l	3500-Hg.B	0.001	No relaxation	BDL	BDL	BDL	BDL
9	<b>Pesticides:</b> α-BHC, β-BHC, γ-BHC, δ-BHC, o,p-DDT, p,p' -DDT, Endosulfan, Endosulfan, Aldrin, Dieldrin	µg/l	6630. D	Absent	0.001	ND	ND	ND	ND
	2,4-D, Carbaryl (Carbonate) Malathion Methyl Parathion Anilophos, Chloropyriphos	Qualitative Analysis	6630. D	Absent	0.001	ND	ND	ND	ND
10	<b>Polyaromatic Hydrocarbons (PAH's):</b> Acenaphthene, Acenaphthylene, Anthracene, B(a)A, B(a)P, B(b)F, B(k)F, Pyrene, Dibenzo (a,h) anthracene, Fluoranthene, Fluorene, Indeno (1,2,3-(d) Pyrene, Naphthalene, Phenanthrene, Pyrene, Methyl Naphthalene	µg/l	6440.C	-	-	ND	ND	ND	ND

### Bacteriological Quality of Drinking water

S. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT			
						GW-3 Ramaraopet	GW-4 Srirampur	GW-7 Sitarampalli	GW-8 Indaram
1	Total Coliforms	MPN/100 ml	9221 B	-	-	<1.8	<1.8	<1.8	<1.8
2	Fecal Coliforms	MPN/100 ml	9221 E	-	-	<1.8	<1.8	<1.8	<1.8

NTU – Nephelometric Turbidity Unit; BDL – Below Detection Limit  
Detection Limits of Aluminium (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Boron (B), Cadmium (Cd), Chromium (Cr)/Total Chromium, Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Magnesium (Mg), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Nickel (Ni), Selenium (Se), Silver (Ag), Vanadium (V), Zinc (Zn), Phenols is 0.01mg/l. Detection Limit of Mercury (Hg), Phosphates/Total Phosphates, Nitrites NO<sub>2</sub>, Free Ammonia, Total Ammonia is 0.02mg/l. Detection Limits of Potassium (K), Sodium (Na) is 0.03mg/l. Detection Limits of Cyanide (CN), Sulfide (S<sub>2</sub>), Hexavalent Chromium Cr+6 is 0.05mg/l. Detection Limits of Nitrates as NO<sub>3</sub>, Fluoride is 0.1mg/l. Detection Limits of Residual Free chlorine, Free Available chlorine, O&G is 1mg/l. Detection Limits of Sulfate SO<sub>4</sub><sup>-2</sup>, Ammonical Nitrogen, Total Kjeldahl Nitrogen (TKN), COD, Total Nitrogen (TN) is 5mg/l. BOD-3mg/l. ND-Not Detected; Detection Limit: Pesticides– 0.1 ppm; PAHs – 1 ppm.

## Analysis Report of monthly summary of 3.0MLD Sewage treatment Plant – Naspur Colony from April, 2024 to September, 2024

All Values in Mg/Liter (Except pH)

Month	Description	Characteristics of Raw Sewage				Characteristics of Aeration Water					Characteristics of Treated Water				
		pH	TSS	COD	BOD	pH	DO	MLSS	MLVSS	TDS	pH	DOB	TSS	COD	BOD
April-2024	Min	7.7	205	205	205	7.3	1.7	3200	382	1900	6.8	1.2	12	12	28
	Max	7.9	220	220	220	7.6	1.9	3980	400	2410	7.1	1.6	16	16	32
	Aver	7.8	209.7	211.7	210.0	7.4	1.8	3585.7	391.0	2201.3	7.0	1.4	14.5	13.3	30.4
May-2024	Min	7.7	205	205	205	7.3	1.7	2900	382	1820	6.8	1.2	12	12	28
	Max	7.9	220	220	220	7.7	1.9	3880	400	2390	7.1	1.6	16	16	32
	Aver	7.8	213.7	212.8	209.2	7.5	1.8	3361.1	391.0	2142.9	6.9	1.4	14.4	14.0	30.3
June-2024	Min	7.7	200	205	205	7.3	1.6	3100	382	1840	6.8	1.2	12	12	28
	Max	7.9	210	220	210	7.6	1.9	3890	398	2480	7.1	1.4	16	16	32
	Aver	7.8	207.3	211.7	207.5	7.4	1.8	3506.7	390.6	2218.8	7.0	1.3	13.7	14.3	30.5
July-2024	Min	7.7	205.0	205.0	205.0	7.2	1.7	2460.0	381.0	1700.0	6.8	1.2	12.0	14.0	28.0
	Max	7.9	220.0	250.0	215.0	7.6	1.9	3695.0	398.0	2390.0	7.1	1.4	16.0	16.0	32.0
	Aver	7.8	208.4	213.0	207.5	7.3	1.8	3223.7	390.1	2113.8	6.9	1.3	14.3	14.7	30.5
August-2024	Min	7.7	205	205	205	7.3	1.7	2800	384	1780	6.8	1.2	12	14	28
	Max	7.9	215	220	210	7.6	1.9	4040	398	2490	7.1	1.6	16	16	32
	Aver	7.9	208.3	210.3	207.9	7.4	1.8	3339.8	391.0	2105.7	6.9	1.4	14.8	14.9	30.5
Sep-2024	Min	7.7	205	205	205	7.3	1.7	1740	384	1730	6.8	1.2	14	14	28
	Max	7.9	210	220	210	7.6	1.9	4020	398	2495	7.1	1.6	16	16	32
	Aver	7.8	208.3	209.0	207.5	7.4	1.8	2922.7	392.1	2185.6	7.0	1.4	15.1	14.7	30.0
	standard	-	-	-	-	-	-	-	-	--	5.5-9.0	--	100	30	250

**POST PROJECT WATER QUALITY (EFFLUENTS) MONITORING DATA FOR THE PERIOD FROM APRIL, 2024 TO SEPTEMBER, 2024 FOR SRP OC-II EXPANSION PROJECT.**

❖ Location of the water Quality monitoring Station : SRP OC Base workshop ETP Out let

Sl. No.	Station name	Date of sampling	Concentration in mg/Liter (Except pH)					
			pH (at 25 <sup>o</sup> C)	TSS At 105 <sup>o</sup> C	TDS (At 180 <sup>o</sup> C)	COD	BOD	Oil & Grease
	MoEF GSR 742(E) and GSR 801(E) Effluent standards for coal mines		5.5-9.0	100	--	250	30	--
2.	SRP OC Base work shop ETP Out let	15.04.2024	7.5	69	1357	64	13.6	3.2
		30.04.2024	7.5	64	1295	72	15.6	2.4
		15.05.2024	7.7	81	1012	59	14.4	2
		30.05.2024	7.1	76	955	63	15.3	<1
		14.06.2024	7.3	69	1186	52	11.2	2.8
		27.06.2024	7.2	58	1025	67	15.2	3.4
		15.07.2024	7.6	71	1268	47	12.4	3.2
		30.07.2024	8.1	66	1344	56	13.5	3.8
		14.08.2024	7.6	57	1566	71	15.5	3.2
		31.08.2024	7.7	76	1623	63	12.5	2.4
		13.09.2024	7.8	76	1296	76	16.5	2.4
		30.09.2024	7.9	81	1098	55	11.6	2
	Minimum		7.10	57.00	955.00	47.00	11.20	2.00
	Maximum		8.10	81.00	1623.00	76.00	16.50	3.80
	Average		7.58	70.33	1252.08	62.08	13.94	2.80
	98% tile		8.06	81.00	1610.46	75.12	16.30	3.72
Test Method			4500H <sup>+</sup> B	2540-D	2540-C	5220-D	IS 3025	2540-C

❖ Location of the water Quality monitoring Station: SRP OCP CHP out let

Sl. No.	Station name	Date of sampling	Concentration in mg/Liter (Except pH)					
			pH (at 25 <sup>o</sup> C)	TSS At 105 <sup>o</sup> C	TDS (At 180 <sup>o</sup> C)	COD	BOD	Oil & Grease
	MoEF GSR 742(E) and GSR 801(E) Effluent standards for coal mines		5.5-9.0	100	--	250	30	10
3.	SRP OCP CHP out let.	15.04.2024	7.6	51	841	23	2.4	<1
		30.04.2024	7.1	63	916	36	7.1	<1
		15.05.2024	7.4	42	1042	31	6.4	<1
		30.05.2024	7.7	37	987	43	9.6	1.2
		14.06.2024	7.2	29	1143	52	11.6	1.2
		27.06.2024	7.4	44	1017	39	10.5	<1
		15.07.2024	7.7	33	845	35	9.5	<1
		30.07.2024	7.9	41	966	32	3.2	<1
		14.08.2024	7.5	36	748	23	2.4	<1
		31.08.2024	7.6	45	919	19	3.1	<1
		13.09.2024	7.8	45	885	24	2.6	<1
		30.09.2024	7.5	52	936	27	3.8	<1
	Minimum		7.10	29.00	748.00	19.00	2.40	1.20
	Maximum		7.90	63.00	1143.00	52.00	11.60	1.20
	Average		7.53	43.17	937.08	32.00	6.02	1.20
	98% tile		7.88	60.58	1120.78	50.02	11.36	1.20
Test Method			4500H <sup>+</sup> B	2540-D	2540-C	5220-D	IS 3025	2540-C

*data on the health has been furnished in the EIA/EMP report. PP had also submitted the action plan for implementation of sand segregation. Plan for tree plantation has also been submitted by the project proponent. The NABL certificate of the lab conducting base line data was valid till 24.08.2023. MOC had awarded 3 star rating for Srirampur OC-II for the years 2018-19 and 2019-20. CCR has been submitted by the PP vide letter No. ENV/IRO-HYD/CCR-16/A/2021/54 dated 31.08.2021.*

*During the course of discussions, PP shown the video recording of the mine site and the same was appreciated by expert committee. The committee emphasised to make a Garland drain around the Periphery of the dump site along the Godavari River to restrict the direct flow of the mine water into the Godavari river. The Garland water should be collected first and then it should pass through ETP for reuse purpose or for discharge into the river. The Committee instructed PP to take amendment of EC in near future for sand recovery within mine lease area. The Committee also emphasized for the stability of the dump with a regular monitoring mechanism particularly on the Godavari river side.*

*Based on the above discussion, **EAC recommended the Environmental Clearance** for expansion of Srirampur Opencast Coal Mine II from 2.50 to 3.50 MTPA with increase in MLA from 707.63 to 1604.11 ha by M/s The Singareni Collieries Company Limited located at Village Ramaraopet, Mandal & District Mancherial (Telangana) under the provisions of EIA Notification, 2006 and its amendments therein with following additional specific conditions to be followed:*

- (i) PP shall obtain CTE/CTO for capacity enhancement upto 3.5 MTPA.*
- (ii) PP shall not use any forest land for any infrastructure and overburden dumping, even if the said forest land is coal bearing area.*
- (iii) The Project proponent shall take all the effective measures in order to protect from the flow of any type of mine water into the Godavari river. The PP shall make a continuous monitoring mechanism by collecting the sample from near boundary of MLA and Godavari river. The data should be submitted to IRO in every six month.*
- (iv) The Project proponent shall make a Garland drain at sufficient distance and at the sufficient height from the bank of Godavari river and the same water should be collected first to pass through ETP for reuse purpose or for discharge into the river.*
- (v) The Project proponent will not be allowed to recover the sand without prior permission.*
- (vi) The project proponent shall install the water sprinklers system along the dedicated coal transportation route near to village as well as in the mining site area with consultation of Gram Panchayat.*
- (vii) The Project proponent shall implement the dust suppression system at the transportation site and in the other parts of the mining lease to arrest the fugitive dust emission.*
- (viii) The Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.*
- (ix) PP shall implement 20% of mining machineries & trucks/dumpers operating with LNG/CNG/Electrical in order to curb the pollution due to mining activity*
- (x) PP shall use only surface miner for mining operation/coal extraction instead of shovel dumper method.*
- (xi) The status of mine closure activities must be included in every six months compliance report*



*submitted to the state pollution control board and IRO.*

- (xii) PP shall not use any village road for coal transportation and shall only transport through conveyor system with silo loading system at railway siding.*
- (xiii) PP to install solar lights along the road used for transportation of minerals to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year.*
- (xiv) PP to provide bio toilets to the villages located within the study areas within 1 year from the grant of this EC.*
- (xv) Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.*
- (xvi) PP to fulfill all the commitment made in the minutes of public hearing to address the issues raised therein in a time bound manner and a progressive report to be furnished to IRO in every six monthly as compliance report.*
- (xvii) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.*
- (xviii) PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms.*
- (xix) PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup at site itself which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non- compliance or infringement should be reported to the concerned authority.*
- (xx) Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.*

O/o. Dy. G.M. (C) / SRP  
Inward No. 1818  
Date: 15/04/2024



**The Singareni Collieries Company Limited**  
(A Government Company)  
**Registered Office: Kothagudem Collieries**  
CIN: U10102TG19205GC000571  
**PERSONNEL DEPARTMENT, SRIRAMPUR AREA**

O/o G.M., SRP  
Inward No. 4579  
Date of: 13 APR 2024  
SRP EN  
IW No. 197  
DATE: 16/04/2024  
17

Ref. No. SRP/AEPATB/SSS/2024/109

Date: 12.04.2024.

**General Manager,  
Srirampur Area.**

Sub : Detailed information of year wise works taken up in SRP  
Area under SHAPE& CSR up to 2023-24-Reg.

Ref : SRP/ENV/2024/72, dtd.05.04.2024.

-oOo-

With reference to the above, please find furnished hereunder the details of Singareni Sewa Samithi has conducted training programs (skill development) at Srirampur Area up to 2023-24.

SL.No	Programme	Participants	Year	Expenditure
1	Tailoring, Beautician, Maggam work, Fashion Designing, Jute bag Making, Computer DTP, LMV for Ladies & Gents, Yoga etc.,	53	2016-2017	4,00,179.00
2	-do-	243	2017-2018	8,18,245.00
3	-do-	387	2018-2019	6,05,431.00
4	-do-	235	2019-2020	23,14,545.00
5	-do-	58	2020-2021	2,02,300.00
6	-do-	117	2021-2022	2,83,273.00
7	-do-	413	2022-2023	5,00,000.00
8	Tailoring, Beautician, Maggam work, Fashion Designing.	477	2023-2024	4,31,000.00
	<b>TOTAL</b>	<b>1983</b>		<b>51,54,794.00</b>

AGM (F&A)

DGM(Per), SRP  
12/4/2024

**COMPLIANCE STATUS OF ISSUES RAISED IN ENVIRONMENTAL PUBLIC HEARING OF SRIRAMPUR OPENCAST - II EXPANSION COAL MINING PROJECT, CONDUCTED ON 19.09.2018.**

S.No	Points Raised	Status of Compliance
1.	SCCL shall conduct Skill development programs for local un employed youth and provide employment opportunities in the out sourcing jobs and civil contracts.	<p>About 625 jobs were already provided in OB off loading &amp; other contractual operations and 54 un-employed youth were given preference for deploying contract vehicles. Employment opportunities will be created in future also.</p> <p>Skill development programmes are being conducted to improve the job opportunities for unemployed local youth in project contractual operations and also in other segments. SCCL will continue the skill development programmes.</p> <p>1100 persons of surrounding villages were imparted training in various fields like driving, motor winding, beautician, police, army etc.,.</p>
2.	SCCL shall provide Medical and education facilities in the R&R colony and in the projected effected villages.	<p>SCCL has arranged medical camps in R&amp;R Colonies and surrounding villages regularly. (Includes Eye Camps, Breast Cancer &amp; Cytology Camps). So far about 11,462 persons got benefited (Since Year 2010-2020). Medical camps will be conducted in future also.</p> <p>SCCL spent Rs. 92 Lakhs towards education in surrounding villages towards Construction of addl. class rooms, Compound walls &amp; fencing to colleges/schools, for drinking water boreholes, Toilets etc. During the period of 2003-2020. SCCL will extend necessary co-operation in future also.</p>
3.	All environmental measures specified in the EIA/EMP and control measures stipulated by MoEF&CC shall be implemented.	SCCL has been taking up various pollution mitigation measures and monitoring the parameters as per EMP in order to minimize the pollution due to

		mining operations and safeguard the environment. Water sprinkling is being done on coal transport roads from mines to CHPs regularly.
4.	One time settlement for the land losers as lot of delay is being taken in payment of Compensation.	Acquisition of Dubbapalli village is being done as per LARR 2013. Sub Division survey and enjoyment survey commenced recently by District revenue authorities and still it is under progress. SCCL will put all out all efforts for payment of compensation under one time settlement.
5.	Lighting & electrical facility In Thallapally village	75% of Lighting and Electrical facility was provided and remaining will be completed within short period.
6.	SCCL shall take up Infrastructure development, water supply, drainage facilities and library in R&R villages.	Under CSR, SCCL spent Rs.2135 Lakhs for infrastructure development like laying of roads, drainage facilities etc. from 2003-04 to 2022-23 in surrounding villages, SCCL will continue the development works in future in also.
7.	SCCL shall provide mineral water for drinking and Water for agriculture in the surrounding villages.	SCCL is supplying the drinking water to the needy villages under CSR policy and so far an amount of Rs. 470.93 Lakhs was spent for drinking water supply. The excess mine water is being let out into the nearby tank after proper treatment for use in agriculture.
8.	SCCL shall Carry out extensive plantation in and around the project area and should plant fruit bearing plants in R&R colony.	SCCL has done massive plantation of about 1485 ha. in the Srirampur area and avenue plantation along the coal transport road was also carried out. For post project environment monitoring & green belt development, Rs. 20.00 Lakhs per annum will be spent under EMP recurring cost.

9.	SCCL shall control the ground Vibration and take up dust control measures due blasting operations.	Controlled blasting is being done with nonels to prevent effect of blast induced ground vibrations. Blasting vibrations are being monitored as per DGMS guidelines and the monitored values are within stipulated norms. Dust control measures are being done as per the EMP.
10.	CSR and DMFT fund shall be spent in the effected villages only.	<p>As a part of CSR, SCCL has been taking up infrastructure development works like lying of roads, construction of drains, sanitation, education, drinking Water etc., in surrounding villages. An amount of Rs.2135 lakhs were spent under CSR from 2022-23.</p> <p>Besides CSR, as per DMFT rules, 30% of royalty (14% of the basic price on coal) is being deposited with District collector.</p> <p>As on March, 2023 Rs.415 Crores were deposited in District Mineral Foundation Trust (DMFT), Mancherial District. DMFT funds are spent for the development of nearby villages as per the DMFT rules(2018).</p>

**ANNEXURE –VII**

**NOISE LEVEL MONITORING DATA FOR THE PERIOD FROM APRIL, 2024 TO SEPTEMBER, 2024 AROUND SRIRAMPUR  
OPENCAST– II EXPANSION PROJECT**

Fortnight	SRP OCP Site Office			SRP OCP Base workshop			Srirampur village			Indaram village			Ramaraopet village		
	Date	L <sub>day</sub>	L <sub>night</sub>	Date	L <sub>day</sub>	L <sub>night</sub>	Date	L <sub>day</sub>	L <sub>night</sub>	Date	L <sub>day</sub>	L <sub>night</sub>	Date	L <sub>day</sub>	L <sub>night</sub>
<b>Apr–I</b>	12.04.2024	50	40.2	12.04.2024	59.5	47.9	10.04.2024	43.2	33	11.04.2024	42.7	30.9	12.04.2024	42.1	35.2
<b>Apr –II</b>	25.04.2024	42.7	33.8	25.04.2024	50.9	43.4	26.04.2024	41	34.5	24.04.2024	42.7	31.8	24.04.2024	44.6	31.8
<b>May –I</b>	10.05.2024	50.7	41.3	10.05.2024	62.3	49.3	10.05.2024	45.8	34.7	09.05.2024	42.9	32.4	09.05.2024	49.9	38.5
<b>May -II</b>	28.05.2024	43.6	37.4	28.05.2024	52.4	42.9	25.05.2024	34.4	28	25.05.2024	43.3	35.5	24.05.2024	39.1	29.3
<b>June–I</b>	10.06.2024	51.1	45.3	10.06.2024	58	48.8	10.06.2024	43.2	33.6	08.06.2024	42.8	34.7	08.06.2024	47.2	33.7
<b>June –II</b>	26.06.2024	43.2	33	26.06.2024	57.5	45.2	26.06.2024	42.4	32.2	25.06.2024	43.3	31.2	25.06.2024	47.7	33.3
<b>July–I</b>	10.07.2024	56.6	44.5	10.07.2024	60.4	52.8	10.07.2024	41.1	36.2	09.07.2024	47.2	37.5	09.07.2024	38.7	33.4
<b>July–II</b>	25.07.2024	44.1	37.6	25.07.2024	54.7	45.8	25.07.2024	43.3	35.3	24.07.2024	42.7	33.9	24.07.2024	40.6	27.7
<b>Aug-I</b>	10.08.2024	50.1	41	10.08.2024	59.3	45.8	10.08.2024	42.9	30.3	09.08.2024	43.4	35.6	09.08.2024	47.9	35.1
<b>Aug -II</b>	27.08.2024	43.4	32.7	27.08.2024	59.3	47	27.08.2024	33.1	29.5	24.08.2024	42.4	34.5	24.08.2024	43.4	30.9
<b>Sep-I</b>	10.09.2024	49.4	33.7	10.09.2024	59.5	46.6	10.09.2024	42.6	38.4	09.09.2024	48.3	36.6	09.09.2024	34.8	27.5
<b>Sep -II</b>	26.09.2024	44.9	34.5	26.09.2024	58.4	45.7	26.09.2024	42.6	34.4	25.09.2024	39.8	29.5	25.09.2024	37.4	28.3
	<b>Average</b>	<b>47.5</b>	<b>37.9</b>		<b>57.7</b>	<b>46.8</b>		<b>41.3</b>	<b>33.3</b>		<b>43.46</b>	<b>33.68</b>		<b>42.78</b>	<b>32.06</b>
<b>Limits</b>		<b>75</b>	<b>70</b>		<b>75</b>	<b>70</b>		<b>55</b>	<b>45</b>		<b>55</b>	<b>45</b>		<b>55</b>	<b>45</b>

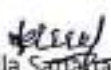



THE SINGARENI COLLIERIES COMPANY LIMITED  
(A GOVERNMENT COMPANY)  
SRIRAMPUR AREA, SRP-OCF.


ILLUMINATION REPORT OF SRP OC 1&2 INTEGRATED PRO FOR THE  
MONTH OF APRIL-2024

Sl No	Place / Area to be illuminated	Location in the Mine	Min Standard(H,V) (in lux)	Actual(H,V) (in lux)
1	Work Place of Heavy Machinery	HEMM work place	15H,25V	26H,17V
		CRR Shovel No.77, 730 RL	15H,25V	45H,28V
2	Drilling operations - (i) Area where drilling rig works	Drill Machine area	25V	
		Drill holes area	25V	
3	Drilling operations - (ii) Area where drill holes exists		15H	
			15H,25V	
4	Places where manual work is done			
5	Places where loading, unloading or transfer, loading of dumpers, trucks or train is carried on (Including OB Dump and Coal Stack Yard)	GVR 60 deck dump yard 900RL	15H,15V	31H,21V
		CRR 60 Deck OB Dump Yard 900 RL	15H,15V	22H,19V
6		CRR 60 Deck OB Dump Yard 902-RL	15H,15V	25H,18V
		Merit Bunker	15H,15V	39H
7		Coal yard-3	15H,15V	26H,19V
		GVR 90 deck dump yard 930RL	15H,15V	29H,19V
8	Operators cabins of machines or mechanisms		50H	
9	Haul roads for Trucks and dumpers	CRR exit ramp haul road	10H	31H
		Tripman junction	10H	38H
10		Main haul road 845 RL	10H	28H
		RUB-2 haul road	10H	21H
11		RUB-2 haul road	10H	27H
		Main haul road 793 RL	10H	17H
12		Main haul road 820 RL	10H	12H
		Main haul road 837 RL	10H	25H
13		Main haul road 773 RL	10H	34H
		RUB-2 haul road	10H	31H
14		CRR exit ramp haul road	10H	26H
		Main haul road 780 RL	10H	29H
15	Rail haulage track in the pit	Merit bunker Rail	10H	83H
16	Roadways and footpaths from bench to bench		10H	
17	Permanent paths for use of persons employed etc.,		10H	
18	In-Pit Crusher / Feeder Breaker	IPC C5 belt	40H	172H
		In-pit Crusher	40H	47H
19				
20	Hand Picking Points		50H	
21	Conveyers - (a) Transfer points and drive / tail end area	Crusher-1 Tail end	40H	36H
		Belt Conveyor 1 & 2	20H	56H

13	Coal Handling Plant - (a) Places of crushing, Screening, segregation and loading / unloading		40H	
	Coal Handling Plant - (b) Operation Points		50H	
	Coal Handling Plant - (C) Other places (in general)		20H	
14	Pumping Station		40H	
15	(i) Electrical Sub-Station	CHP sub-station	100H, 50V	74H, 38V
	(ii) Other places of operation of electrical apparatus / equipment		20H, 20V	
16	First Aid station	First Aid room	50H	55H
17	Rest shelter	Surface rest hall	30H	42H
18	Workshop	HEMM workshop	100H, 50V	165H, 80V
19	Parking Yard	Surface parking yard	50H	69H
20	General working areas as determined by the Manager in writing		10H	

  
Kondilla Sathyanandam  
(Surveyed by)

  
I Srinivas  
(Safety Officer)

  
B Brahmajee Rao  
(Manager)

**THE SINGARENI COLLIERIES COMPANY LIMITED**  
(A GOVERNMENT COMPANY)  
SRIRAMPUR AREA, SRP-OCP.

**ILLUMINATION REPORT OF SRP OC 1&2 INTEGRATED PRO FOR THE  
MONTH OF MAY-2024**

Serial No.	Place / Area to be illuminated	Location in the Mine	Min Standard(H,V) (in lux)	Actual(H, V) (in lux)
1	Work Place of Heavy Machinery	HEMM work place	15 H, 25 V	21 H, 32 V
2	Drilling operations - (i) Area where drilling ing works		25 V	
	Drilling operations - (ii) Area where drill holes exists		15 H	
3	Places where manual work is done		15 H, 25 V	
4	Places where loading, unloading or transfer, loading of dumpers, trucks or train is carried on (including OB Dump and Coal Stack Yard)	GVR 60 deck dump yard 900RL	15 H, 15 V	21 H, 18 V
		CRR 60 Deck OB Dump Yard 900 RL	15 H, 15 V	0
		GVR 90 deck dump yard 930RL	15 H, 15 V	27 H, 19 V
		Coal yard-3	15 H, 15 V	18 H, 12 V
		Merit Bunker	15 H, 15 V	40 H
		CRR 90 Deck OB Dump Yard 902 RL	15 H, 15 V	41 H, 29 H
5	Operators cabins of machines or mechanisms		50 H	
6	Haul roads for Trucks and dumpers	RUB-2 haul road	10 H	26 H
		Tripman junction	10 H	57 H
		Main haul road 845 RL	10 H	24 H
		CRR exit ramp haul road	10 H	24 H
		CRR exit ramp haul road	10 H	31 H
		Main haul road 837 RL	10 H	67 H
		Main haul road 773 RL	10 H	67 H
		RUB-2 haul road	10 H	19 H
		RUB-2 haul road	10 H	18 H



		Main haul road 780 RL	10 H	39 H
		Main haul road 793 RL	10 H	19 H
		Main haul road 820 RL	10 H	42 H
7	Rail haulage track in the pit	Merit bunker Rail	10 H	163 H
8	Roadways and footpaths from bench to bench		10 H	
9	Permanent paths for use of persons employed etc.		10 H	
10	In-Pit Crusher / Feeder Breaker	IPC CS belt	40 H	177 H
		In-pit Crusher	40 H	67 H
11	Hand Picking Points		50 H	
12	Conveyers - (a) Transfer points and drive / tail end area	Crusher-1 Tail end	40 H	56 H
	Conveyers - (b) Along conveyor	Belt Conveyor 1 & 2	20 H	47 H
13	Coal Handling Plant - (a) Places of crushing, Screening, segregation and loading / unloading		40 H	
	Coal Handling Plant - (b) Operation Points		50 H	
	Coal Handling Plant - (c) Other places (in general)		20 H	
14	Pumping Station		40 H	
15	(i) Electrical Sub-Station	CHP sub-station	100 H, 50 V	39 H, 31 V
	(ii) Other places of operation of electrical apparatus / equipment		20 H, 20 V	
16	First Aid station	First Aid room	50 H	66 H
17	Rest shelter	Surface rest hall	30 H	45 H
18	Workshop	HEMM workshop	100 H, 50 V	91 H, 38 V
19	Parking Yard	Surface parking yard	50 H	67 H
20	General working areas as determined by the Manager in writing		10 H	

Kondilla Soudamdam  
(Surveyed by)

I Srinivasa  
(Safety Officer)

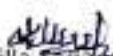
B Brahmajee Rao  
(Manager)

**THE SINGARENI COLLIERIES COMPANY LIMITED**  
**(A GOVERNMENT COMPANY)**  
**SRIRAMPUR AREA, SRP-OCP.**


**ILLUMINATION REPORT OF SRP OC 1&2 INTEGRATED PRO FOR THE MONTH OF**  
**JUNE-2024**

Serial No.	Place / Area to be illuminated	Location in the Mine	Min Standard(H,V) (in lux)	Actual(H, V) (in lux)
1	Work Place of Heavy Machinery	CRR Shovel No.4 690 RL 3 Seam	15 H, 25V	
		HEMM work place	15 H, 25V	42 H, 33 V
		GVR shovel No.9 690 RL 3 Seam	15 H, 25V	0
2	Drilling operations - (i) Area where drilling rig works		25V	
	Drilling operations - (ii) Area where drill holes exists		15 H	
3	Places where manual work is done		15 H, 25V	
4	Places where loading, unloading or transfer, loading of dumpers, trucks or train is carried on (including OB Dump and Coal Stack Yard)	CRR 90 Deck OB Dump Yard 902 RL	15 H, 15V	22 H, 14V
		GVR 90 deck dump yard 930RL	15 H, 15V	21 H, 16 V
		GVR 60 deck dump yard 900RL	15 H, 15V	18 H, 16 V
		Merit Bunker	15 H, 15V	15 V
		Coal yard-3	15 H, 15V	24 H
5	Operators cabins of machines or mechanisms		50 H	
6	Haul roads for Trucks and dumpers	Main haul road 845 RL	10 H	48 H
		Tripman junction	10 H	56 H
		Main haul road 780 RL	10 H	28 H
		GCC view point haul road 856 RL	10 H	0
		Main haul road 773 RL	10 H	46 H
		RUB-2 haul road	10 H	39 H
		RUB-2 haul road	10 H	34 H
		Main haul road 793 RL	10 H	18 H
		Main haul road 820 RL	10 H	31 H
		Main haul road 837 RL	10 H	32 H
		CRR exit ramp haul road	10 H	28 H

		CRR exit ramp haul road	10 H	39 H
		RUB-2 haul road	10 H	36 H
7	Rail haulage track in the pit	Merit bunker Rail	10 H	86 H
8	Roadways and footpaths from bench to bench		10 H	
9	Permanent paths for use of persons employed etc.,		10 H	
10	In-Pit Crusher / Feeder Breaker	IPC C5 belt	40 H	159 H
		In-pit Crusher	40 H	0
11	Hand Picking Points		50 H	
12	Conveyers - (a) Transfer points and drive / tail end area	Crusher-1 Tail end	40 H	32 H
	Conveyers - (b) Along conveyor	Belt Conveyor 1 & 2	20 H	51 H
13	Coal Handling Plant - (a) Places of crushing, Screening, segregation and loading / unloading		40 H	
	Coal Handling Plant - (b) Operation Points		50 H	
	Coal Handling Plant - (C) Other places (in general)		20 H	
14	Pumping Station		40 H	
15	(i) Electrical Sub-Station	CHP sub-station	100 H	39 H, 28 V
	(ii) Other places of operation of electrical apparatus / equipment		20 H	
16	First Aid station	First Aid room	50 H	66 H
17	Rest shelter	Surface rest hall	30 H	44 H
18	Workshop	HEMM workshop	100 H	92 H, 39 V
19	Parking Yard	Surface parking yard	50 H	50 H
20	General working areas as determined by the Manager in writing		10 H	

  
Kondilla Sathyanandam  
(Surveyed by)

  
I Srinivas  
(Safety Officer)

  
B Brahmajee Rao  
(Manager)



**THE SINGARENI COLLIERIES COMPANY LIMITED**  
(A GOVERNMENT COMPANY)  
SRIRAMPUR AREA, SRP-OCP.

**ILLUMINATION REPORT OF SRP OC 1&2 INTEGRATED PRO FOR THE MONTH OF  
JULY-2024**

Serial No.	Place / Area to be illuminated	Location in the Mine	Min Standard(H,V) (in lux)	Actual(H) (in lux)
1	Work Place of Heavy Machinery	CRR Shovel No.4 690 RL 3 Seam	15H,25V	0
		HEMM work place	15H,25V	28H,18V
		GVR shovel No.9 690 RL 3 Seam	15H,25V	0
2	Drilling operations - (i) Area where drilling rig works		25V	
	Drilling operations - (ii) Area where drill holes exists		15H	
3	Places where manual work is done		15H,25V	
4	Places where loading, unloading or transfer, loading of dumpers, trucks or train is carried on (including OB Dump and Coal Stack Yard)	CRR 90 Deck OB Dump Yard 902 RL	15H,15V	0
		GVR 90 deck dump yard 930RL	15H,15V	0
		GVR 60 deck dump yard 900RL	15H,15V	18H,16V
		Merit Bunker	15H,15V	37H
		Coal yard-3	15H,15V	0
5	Operators cabins of machines or mechanisms		50H	
6	Haul roads for Trucks and dumpers	Main haul road 845 RL	10H	35H
		Tripman junction	10H	68H
		Main haul road 780 RL	10H	18H
		GCC view point haul road 856 RL	10H	0
		Main haul road 773 RL	10H	19H
		RUB-2 haul road	10H	59H
		RUB-2 haul road	10H	86H
		Main haul road 793 RL	10H	29H



		Main haul road 820 RL	10H	18H
		Main haul road 837 RL	10H	26H
		CRR exit ramp haul road	10H	37H
		CRR exit ramp haul road	10H	59H
		RUB-2 haul road	10H	107H
7	Rail haulage track in the pit	Merit bunker Rail	10H	147H
8	Roadways and footpaths from bench to bench		10H	
9	Permanent paths for use of persons employed etc.		10H	
10	In-Pit Crusher / Feeder Breaker	IPC C5 belt	40H	95H
		In-pit Crusher	40H	0
11	Hand Picking Points		50H	
12	Conveyers - (a) Transfer points and drive / tail end area	Crusher-1 Tail end	40H	37H
	Conveyers - (b) Along conveyor	Belt Conveyor 1 & 2	20H	51H
13	Coal Handling Plant - (a) Places of crushing, Screening, segregation and loading / unloading		40H	
	Coal Handling Plant - (b) Operation Points		50H	
	Coal Handling Plant - (C) Other places (in general)		20H	
14	Pumping Station		40H	
15	(i) Electrical Sub-Station	CHP sub-station	100H, 50V	81H, 32V
	(ii) Other places of operation of electrical apparatus / equipment		20H, 20V	
16	First Aid station	First Aid room	50H	66H
17	Rest shelter	Surface rest hall	30H	41H
18	Workshop	HEMM workshop	100H, 50V	87H, 39V
19	Parking Yard	Surface parking yard	50H	66H
20	General working areas as determined by the Manager in writing		10H	

Kondilla Subrahmandam  
(Surveyed by)

I Srinivas  
(Safety Officer)

B Brahmarajee Rao  
(Manager)

**THE SINGARENI COLLIERIES COMPANY LIMITED**  
**(A GOVERNMENT COMPANY)**  
**ILLUMINATION REPORT OF SRP OC 1&2 INTEGRATED PRO FOR THE MONTH OF**  
**AUGUST-2024**

Serial No	Place / Area to be illuminated	Location in the Mine	Min Standard(H, V) (in lux)	Actual(H,V) (in lux)
1	Work Place of Heavy Machinery	CRR Shovel No.4 690 RL 3 Seam	15H,25V	0
		HEMM work place	15H,25V	25H,30V
		GVR shovel No.9 690 RL 3 Seam	15H,25V	0
2	Drilling operations - (i) Area where drilling rig works		15H,25V	
	Drilling operations - (ii) Area where drill holes exists		15H,25V	
3	Places where manual work is done		15H,25V	
4	Places where loading, unloading or transfer, loading of dumpers, trucks or train is carried on (including OB Dump and Coal Stack Yard)	CRR 90 Deck OB Dump Yard 902 RL	15H,15V	0
		GVR 90 deck dump yard 930RL	15H,15V	0
		GVR 60 deck dump yard 900RL	15H,15V	0
		Merit Bunker	15H,15V	35H
		Coal yard-3	15H,15V	0
5	Operators cabins of machines or mechanisms		50H	
6	Haul roads for Trucks and dumpers	Main haul road 845 RL	10H	25H
		Tripman junction	10H	45H
		Main haul road 780 RL	10H	23H
		GCC view point haul road 856 RL	10H	0
		Main haul road 773 RL	10H	18H
		RUB-2 haul road	10H	20H
		RUB-2 haul road	10H	15H
		Main haul road 793 RL	10H	19H

		Main haul road 820 RL	10H	22H
		Main haul road 837 RL	10H	35H
		CRR exit ramp haul road	10H	15H
		CRR exit ramp haul road	10H	17H
		RUB-2 haul road	10H	13H
7	Rail haulage track in the pit	Ment bunker Rail	10H	65H
8	Roadways and footpaths from bench to bench		10H	
9	Permanent paths for use of persons employed etc.		10H	
10	In-Pit Crusher / Feeder Breaker	IPC C5 belt	40H	79H
		In-pit Crusher	40H	67H
11	Hand Picking Points		50H	
12	Conveyers - (a) Transfer points and drive / tail end area	Crusher-1 Tail end	40H	36H
	Conveyers - (b) Along conveyor	Belt Conveyor 1 & 2	20H	54H
13	Coal Handling Plant - (a) Places of crushing, Screening, segregation and loading / unloading		40H	
	Coal Handling Plant - (b) Operation Points		50H	
	Coal Handling Plant - (C) Other places (in general)		20H	
14	Pumping Station		40H	
15	(i) Electrical Sub-Station	CHP sub-station	100H, 50V	86H, 35V
	(ii) Other places of operation of electrical apparatus / equipment		20H, 20V	
16	First Aid station	First Aid room	50H	65H
17	Rest shelter	Surface rest hall	30H	44H
18	Workshop	HEMM workshop	100H, 50V	74H, 55V
19	Parking Yard	Surface parking yard	50H	67H
20	General working areas as determined by the Manager in writing		10H	

Kondilla Sada Nandam  
(Surveyed by)

I Sriniva  
(Safety Officer)

B Brahmajee Rao  
(Manager)

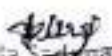


**THE SINGARENI COLLIERIES COMPANY LIMITED**  
**(A GOVERNMENT COMPANY)**  
**ILLUMINATION REPORT OF SRP OC 1&2 INTEGRATED PRO FOR THE MONTH OF**  
**SEPTEMBER-2024**


Serial No.	Place / Area to be illuminated	Location in the Mine	Min Standard(H,V) (in lux)	Actual(H,V) (in lux)
1	Work Place of Heavy Machinery	IPC S-7 Coal	15H,25V	37H,18V
		1 Seam Drill Holes	15H,25V	32H
		1 Seam Benches	15H,25V	14H
		1 Seam K-3 Cabin	15H,25V	38H
		1 Seam S-9 Cabin	15H,25V	36H
		1 Seam S-9 Coal	15H,25V	30H,27V
		1 Seam DM-2 Cabin	15H,25V	41H
		IPC S-7 Cabin	15H,25V	35H
		1 Seam Holes Exit	15H,25V	18H
		HEMM work place	15H,25V	18H,16V
		IPC S-7 Coal Yard	15H,25V	25H,19V
		CRR 730 RL OB S-42	15H,25V	34H,19V
2	Drilling operations - (i) Area where drilling rig works		25V	
	Drilling operations - (ii) Area where drill holes exists		15H	
3	Places where manual work is done		15H,25V	
4	Places where loading, unloading or transfer, loading of dumpers, trucks or train is carried on (including OB Dump and Coal Stack Yard)	CRR Internal Dump Yard 760 RL	15H,15V	18H,16V
		Surface Coal Yard	15H,15V	112H,10V
		Merit Bunker	15H,15V	32H
		CRR Internal Dump Yard 760 RL	15H,15V	12H,10V
		CRR 730 RL OB Dump Yard	15H,15V	10H,6V

5	Operators cabins of machines or mechanisms		50H	
6	Haul roads for Trucks and dumpers	RUB-2 haul road	10H	13H
		Main haul road 845 RL	10H	25H
		Tripman junction	10H	65H
		Main haul road 773 RL	10H	16H
		CRR exit ramp haul road	10H	21H
		Main haul road 793 RL	10H	22H
		Main haul road 820 RL	10H	14H
		Main haul road 837 RL	10H	18H
		CRR exit ramp haul road	10H	18H
		RUB-2 haul road	10H	14H
		Main haul road 780 RL	10H	19H
		RUB-2 haul road	10H	16H
7	Rail haulage track in the pit	Merit bunker Rail	10H	69H
8	Roadways and footpaths from bench to bench		10H	
9	Permanent paths for use of persons employed etc.,		10H	
10	In-Pit Crusher / Feeder Breaker	IPC C5 belt	40H	74H
		In-pit Crusher	40H	42H
11	Hand Picking Points		50H	
12	Conveyers - (a) Transfer points and drive / tail end area	Crusher-1 Tail end	40H	34H
	Conveyers - (b) Along conveyor	Belt Conveyor 1 & 2	20H	56H

13	Coal Handling Plant - (a) Places of crushing, Screening, segregation and loading / unloading		40H	
	Coal Handling Plant - (b) Operation Points		50H	
	Coal Handling Plant - (c) Other places (in general)		20H	
14	Pumping Station	3 Seam Pump	40H	34H
15	(i) Electrical Sub- Station	CHP sub-station	100H,50V	85H,34V
	(ii) Other places of operation of electrical apparatus / equipment		20H,20V	
16	First Aid station	First Aid room	50H	69H
17	Rest shelter	Surface rest hall	30H	46H
18	Workshop	HEMM workshop	100H,50V	85H,39V
19	Parking Yard	Surface parking yard	50H	66H
20	General working areas as determined by the Manager in writing		10H	

  
Kondilla S. Subramanian  
(Surveyed by )

  
I Srinivas  
(Safety Officer)

  
B Brahmajee Rao  
(Manager)



**TELANGANA STATE POLLUTION CONTROL BOARD**  
**PARYAVARAN BHAVAN, A - 3, INDUSTRIAL ESTATE,**  
**SANATHNAGAR, HYDERABAD - 500 018**

Phone: 23887500  
Fax: 040 - 23815631  
Website: tspcb.cgg.gov.in

**CONSENT ORDER (EXPANSION)**  
**RED CATEGORY**

**Consent Order No : 230524408222**

**Dt.14.07.2023**

(Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof, Operation of the plant under section 24/25 of the (Prevention & Control of Pollution) Act 1981 and amendments thereof.

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof, (hereinafter referred to as 'the Acts', 'the Rules' and the rules and orders made there under to M/s.Singareni Collieries Co.Ltd., SRP OCP-II Expansion at Srirampur Area, Naspur (M), Mancherla District (hereinafter referred to as 'the Applicant /Industry') and the mine is authorized to operate the industrial plant to discharge the Effluents from the outlets, as detailed below,

**i) Out lets for discharge of Effluents:**

Outlet No.	Description of Outlet	Max Daily Discharge in KLD	Point of Disposal
1	Process & wash (Mine discharge water & Vehicle washings) after treatment	3492.0	Treatment in settling ponds. The supernatant shall be utilized for dust suppression, vehicle washings, plantations & domestic purpose. The rest of the supernatant shall be discharged into nearby irrigation tanks.
2	Domestic	17.0	Shall be treated in 3 MLD STP at Naspur Colony and the treated water shall be used for gardening.

This consent order is valid for Mining of Coal in Mine lease area of 1604.11 Ha for the following capacity:

SL No	Line of activity	Capacity
1	Open cast Coal mining	3.5 Million TPA

**Raw materials / Fuels required for production:**

S.No	Name of the Major Raw material	Total after expansion
1)	Explosives	89912 Kg/day
2)	Lubricant Oils	8.83 Kg/month
3)	Diesel	3928 Kl/month



This order is subject to the provisions of 'the Acts' and the Rules' and amendments made thereunder and further subject to the terms and conditions incorporated in the schedule A and B enclosed to this order.

This Consent order is valid for a period upto 28.02.2028.

Sd/-  
MEMBER SECRETARY

To  
M/s. Singareni Collieries Co. Ltd.,  
SRP OCP-II Expansion at Srirampur Area,  
Nasipur (M), Mancherial District

///T.C.F.B.O///

*P. Praveen* 14/7/2023

SENIOR ENVIRONMENTAL ENGINEER  
(CFO - UNIT-III)

*(Signature)*

### **SCHEDULE - A**

1. The applicant shall make applications through online for renewal of Consent (under Water & Air Acts) and Authorisation under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorisation of the Board. The applicant can also apply for Auto Renewal of the CFO atleast 30 days before the expiry of this order as per the procedure and eligibility stipulated in the Board Circular dt.19.11.2015 & 08.12.2015 (available in Board's Website: <http://tspcb.cgg.gov.in/Pages/Circulars.aspx>).
2. This order is issued in line with Board's CFE (expansion) order dt. 20.05.2023. Concealing the factual data or submission of false information/ fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts. The mine shall comply with all other conditions of CFE (expansion) order dt. 20.05.2023 is still applicable.
3. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Rules, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.
4. The mine may explore the possibility of tapping the solar energy for their energy requirements.
5. The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.

### **SCHEDULE - B**

1. Total Water Consumption shall not exceed 1508.0 KLD

S. No	Purpose	Quantity (KLD)
1.	Dust suppression	886
2.	Washings	200
3.	Domestic	22
4.	Green belt / Plantation	400
Total:		1508 KLD

2. The effluent discharged should not contain constituents in excess of the tolerance limits prescribed below.

Outlet No.	Parameter	Limiting Standards
1 & 2	pH	5.5 – 9.0
	Total Suspended Solids (TSS)	100 mg/l
	Oil & Grease	10 mg/l
	BOD (3 days at 27°C)	30 mg/l
	Chemical Oxygen Demand (COD)	250mg/l
	Total Dissolved Solids(TDS)	2100mg/l

3. The mine should ensure segregation of Acid Mine Discharges (AMD) from abandoned mines, coal stocks, coal handling facilities, washeries & coal waste tips etc. and should adopt adequate treatment to achieve prescribed standards for the AMD as stipulated at S.No.2 prior to disposal. The plan of action for segregation of AMD, technology of the proposed treatment and mode of disposal should be submitted to Board.

4. The mine shall comply with ambient air quality standards of  $PM_{10}$  (Particulate Matter size less than  $10 \mu m$ ),  $PM_{2.5}$  (Particulate Matter size less than  $2.5 \mu m$ ) -  $60 \mu g/m^3$ ,  $SO_2$  -  $80 \mu g/m^3$ ,  $NO_x$  -  $80 \mu g/m^3$ , outside the factory premises at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009

Noise Levels: Day time - (6 AM to 10 PM) - 75 dB (A)

Night time - (10 PM to 6 AM) - 70 dB (A).

5. The existing CFO order dt. 25.02.2021 with a validity upto 31.03.2026 stands cancelled.
6. The mine has paid CFO fee of Rs.14,34,800/- for a period upto 31.03.2025.
7. The industry shall pay balance consent fee annually as per rates notified in G.O.Ms.No 22. The payment of annual consent fee shall be made at the concerned RO for every financial year (i.e., April to March) within the stipulated time period i.e., 1st quarter of every financial year (April to June) is mandatory for the industry / project, failing which, the validity of the Consent Order automatically stands cancelled and operation industry / project without valid consent attracts penal action under the provision of Water Act, Air Act & Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
8. The mine either paying annual fee or total fee for Consented period, shall pay the balance fee as per the revised rates as applicable from time to time.
9. The mine shall not produce beyond the permitted capacity as mentioned in this order, without obtaining prior CFE & CFO of the Board. The mining capacity of the coal also shall not be increased more than IBM approved capacity.
10. The mine shall maintain separate water meters for recording water consumption for various purposes and also maintain daily records.
11. The mine shall provide fixed water sprinklers along the permanent haul roads of the mine within three months.
12. The mine shall maintain the water spraying system properly by adopting preventive maintenance schedule to avoid fugitive dust emissions.
13. The mine shall maintain separate water meters for recording water consumption for various purposes and also maintain daily records.
14. The mine shall develop and maintain greenbelt as per norms.
15. The mine shall maintain one CAAQM station and connect to the TSPCB server as per CPCB directions.
16. The mine shall install and maintain 3 fixed AAQM stations in core area for conducting AAQ monitoring and submit reports to the RO, Nizamabad.
17. The mine should comply with standards applicable to coal mining for core zone as per GSR 742 (E) dated 25<sup>th</sup> September 2000 issued by MOEF&CC and also comply with National Ambient Air Quality Standards (NAAQS) in the buffer zone.
18. The mine shall clean the roads regularly by procuring mechanical sweeping machine within five months to avoid fugitive emissions as committed.
19. The Mine shall maintain water mist sprayers at coal bunkers to control fugitive emissions.
20. The mine shall take effective measures such as covering coal transport vehicles with tarpaulins, mechanical sweeping of roads, etc to avoid fugitive emissions.
21. The mine shall use atleast 25% of fly ash on volume to volume basis on the total materials used for external dump of overburden and same percentage in upper benches of back filling of open cast mines, as per Fly Ash Notification.

22. The mine shall comply with MOEF Notification No.GSR.02 (E), dt. 02.01.2014 for supply of coal with Ash content not exceeding 34% to coal based Thermal Power plants.
23. The personnel working in dusty areas should wear protective / respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
24. Blasting should be sequential in such a manner as to achieve minimum vibration.
25. The mine shall comply with the following for controlling air pollution
  - To avoid the dust generation from the drilling operations, wet-drilling should be done.
  - Use of appropriate explosives for controlled blasting and avoid overcharging the blast holes.
  - The volume of dust rising from dumps by the action of wind should be controlled significantly by planting grasses on slopes and plants on dumps soon after their formation.
  - To overcome the problems of dust generation from mine haul roads, the following steps should be adopted.
    - Black topping of permanent roads like routes to coal handling plant, permanent internal roads etc.
    - Water spraying on haul roads and permanent transport routes at required frequencies. Provision should be made for procurement of six water sprinklers for this purpose.
    - Avenue plantation along roads should be adopted.
  - Effective dust suppression measures are proposed to be taken up at pit head coal handling plant (CHP). The crusher house should be enclosed to the extent possible and dust suppression arrangement should be provided at suitable locations in the CHP. All the conveyors, screens, crusher etc., should be provided with covers to avoid fugitive dust emission. The following measures to control dust emission include:
    - Height of fall to be minimized at all coal transfer points.
    - Internal lining of chutes and bins should be done to take care of abrasion & dust.
26. Dumping of overburden, if done, shall use the retreating pyramid bench formation with concurrent physical and biological reclamation. Dumps should be contoured and provided with relief control and stabilized. Dump tops should be compacted, leveled and be properly drained.
27. Soil binding and nitrogen fixing plants should plant in the Mining Lease Area. Biological reclamation should be done in two phase the first phase should be plant appropriate quick growing grass and shrubs and the second phase should grow slower native shrubs and trees.
28. Ground water table levels should be monitored every season. Any lowering of the ground water table in comparison to the previous season should be reported to the Board immediately. Discarded pits should be allowed to fill with water.
29. Vehicles should be well maintained and engine idling should be minimized. Vehicle cabs should be made dust-proof.
30. All waste material should be accommodated within the Mining Lease Area.
31. The natural drainage of water should be maintained. Dump sites should not cross any streams, water flow from the Mining Lease Area, even during the monsoon, should be free of suspended matter and conform to prescribed water quality standards.
32. Check dams and filter beds should be constructed to protect from streams runoffs.

33. The industry shall maintain the CC roads towards weight bridge bypass from existing BT road.
34. The industry shall operate CC cameras to ensure that no coal transporting lorries shall pass without complete covering with tarpaulins.
35. The mine shall comply with the directions issued by the Board from time to time.
36. The mine shall submit the analysis reports of the mine discharge water to RO Nizamabad regularly.
37. The applicant should submit Environment statement in Form V before 30<sup>th</sup> September of every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
38. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991, should be followed.
39. The conditions stipulated in this order are without any prejudice to rights and contentions of this Board in any Hon'ble court of Law.

Sd/-  
**MEMBER SECRETARY**

**To**  
M/s.Singareni Collieries Co.Ltd.,  
SRP OCP-II Expansion at Srirampur Area,  
Naspur (M), Mancherial District

///T.C.F.B.O///

*M. Phani* 14/7/2023

**SENIOR ENVIRONMENTAL ENGINEER**  
(CFO - UNIT-III)

*(Signature)*

1506  
6/4/2022  
GOVERNMENT OF TELANGANA  
FOREST DEPARTMENT

Re. No.: 5694/2021/WL-1  
Date: 01.04.2022

Office of Prl. Chief Conservator of Forests, Telangana  
Arunya Bhavan, Saifabad, Hyderabad

Sri. Swargam Srinivas, I.P.S.,  
Prl. Chief Conservator of Forests (P&V) &  
Chief Wildlife Warden (FAC)

Sub: - TSFD - Wildlife - Obtaining Environmental Clearance for Srirampur group of mines and accordingly approval of CWLW for wildlife mitigation plan for schedule - I species in Mancherla forest division - Request for expansion of srirampur area projects. (srirampur oc-i, srirampur oc-ii exp., indaram oc & ik-1a incline (part of indaram mining lease), srirampur-1, srirampur-3&3a, ravindra khani-5, ravindra khani-6, ravindra khani-7, ravindra khani-nt, ravindra khani-8 and indaram khani-1a projects) SCCL for revision of SCCL for revision of wildlife mitigation plan - Revised wildlife mitigation measures plan for (10) years - Approved and communicated. Regarding.

Ref: - 1. CCF& FDPT, KTR Re. No. 3069/2021/D2, dt. 22.02.2022.  
2. Prl. CCF&CWLW TS, Hyd Re. No.5694/2021/WL-1, dt. 12.07.2021&22.11.2021.

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This is to inform that, the CCF& FDPT, KTR in the 1<sup>st</sup> reference, submitted his remarks on the wildlife mitigation plan prepared by EPTRJ, Hyderabad as called for in this office references 2<sup>nd</sup> cited for obtaining environment clearance for Srirampur Group of Mines being operated by SCCL falling in Mancherla District.

The FD, KTR also enclosed a revised Wildlife conservation and mitigation plan for the proposed expansion of the Srirampur area projects. (Srirampur OC-I, Srirampur OC-II exp., Indaram OC & IK-1A incline (part of indaram mining lease), Srirampur-1, Srirampur-3&3A, Ravindra Khani-5, Ravindra Khani-6, Ravindra khani-7, Ravindra khani-NT, Ravindra khani-8 and indaram khani-1A projects). The plan prepared by the FD, KTR with a proposed outlay of Rs.526.367 lakh is to be implemented over a period of (10) years from 2022-23 to 2030-31. The major components proposed are:-

Sl. No.	Component	Proposed allocation (Rs.in lakh)
1	Strengthening of Wildlife Protection	100.311
2	Wildlife Habitat improvement	205.630
3	Monitoring of Wildlife and Research	102.960
4	Publicity, awareness and Education	14.400
5	Fire Protection and Management	16.00
6	Repairs and maintenance to Camp offices	10.00
7	Eco-Development activities	52.00
8	Administrative cost and unforeseen	25.065
	Total	526.367



The revised Wildlife conservation and mitigation plan for the proposed expansion of the Sittampur area projects by SCCL (Sittampur OC-L, Sittampur OC-H exp., Induram OC & IK-1A incline (part of Induram mining lease), Sittampur-1, Sittampur-3&4A, Ravindra Khani-5, Ravindra Khani-6, Ravindra Khani-7, Ravindra Khani-NE, Ravindra Khani-S and Induram Khani-1A projects) for a period of 10 years with proposed outlay of Rs.526.367 lakh prepared by FDDT, KTR as shown is approved. A copy of the detailed plan is enclosed.

The CTFD, KTR is requested to raise demand with SCCL for depositing the proposed mitigation amount of Rs.526.367 lakh in HOSOT account of Chief Wildlife Warden account, Telangana.

Encl: As above.

Sd/- Swargam Srinivas,  
Prl. Chief Conservator of Forests (P&V) &  
Chief Wildlife Warden (P&V)

To  
The Chief Conservator of Forests / FDDT, KTR.

Copy to Prl. Chief Conservator of Forests (HoFF) & D/o FCA, O/o PCCF(HoFF) for information and necessary action.

Copy to the General Manager, Environment, SCCL Limited, Bhadrachalam Road Rly. Station, Kothagudem - 507 101 for information and necessary action.

Copy to the Advisor, (Forestry), SCC Limited, Singareni Bhavan, Red Hills, P.B.No. 18, Kharatabad, Hyderabad - 500 004 for information and necessary action.

✓ Copy to District Forest Officer, Mancherial for information and necessary action.

// True Copy //

for Prl. Chief Conservator of Forests

**GOVERNMENT OF TELANGANA  
GROUND WATER DEPARTMENT**

From:

P.Srinivasa Babu, M.Sc.(Tech),  
District Ground Water Officer (I/c),  
Ground Water Department,  
**MANCHERIAL – 504 208.**

To:

The General Manager,  
SCCL Srirampur Area,  
**MANCHERIAL.**

**Lr.No.236/SCCL/2022-1**

**Dated: 27.09.2022.**

Sub:- Ground Water Department — Mancherial District - Mining Projects —  
Groundwater Clearance for Renewal of proposed Srirampur Opencast-II  
Expansion Project of SCCL in Srirampur Area of Mancherial District— Report  
Approved—Regarding.

Ref:- 1. General Manager SCCL Srirampur Area 'LrNo.SRP/ENV/Q-408/2022/17,  
Date: 28.02.2022  
2. District Ground Water Officer, GWD, Mancherial, Lr.No:236/SCCL/2022-1,  
Dt:26.08.2022.  
3. Director, GWD, Hyderabad. Memo No.2182/HgII/F2018-1, Date:26.09.2022.

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I invite to the subject and reference cited above, after scrutiny of the report, the permission is here by accorded subject to the other conditions laid down by ministry of Environment/MOWR for proposed **"Srirampur Opencast-II Expansion Renewal Project in Srirampur Area of Mancherial District"** subject to fulfillment of following conditions in due course in order to maintain safe ground water regime and also protect the rights and interests of local habitation and environment.

- The project proponent should ensure that water available from dewatering operations is properly treated and should be gainfully utilized for drinking water, supply for irrigation, dust suppression, mining process, recharge in downstream and for maintaining in e-flows in catchment area.
- Proponent shall use the advance dewatering technology fitted with digital flow meters to the existing dewatering structures to avoid the contamination of surface water.
- Establish formation wise/ aquifer wise purpose-built piezometers with DWLRs installation in the periphery of mine area for study the confined aquifers, are recommended and ground water level monitoring shall be mandatory. Drilling of piezometer wells shall take up with the Rigs registered under TSWALTA and drilling details to submit in Form -I(E) to the undersigned.
- The department will extend technical guidance for construction of Piezometer with designs, if required.
- The project proponent shall monitor groundwater levels manually and regularly once in month by establishing observation wells in core and buffer zone area and data should be submitted to O/o District Ground Water Officer, Mancherial District.
- The mining authority shall also monitor the ground water quality from wells, mine seepage and discharge through NABL accredited/ Govt. approved laboratories for pre and post monsoon seasons and must be furnished to O/o District Ground Water Officer, Mancherial District in every six months, with a copy to the Director, GWD, Hyderabad.
- The effluents generated must not be let out into any surface or ground water bodies and must be recycled and reused.

.....Continue pg.2.



- Precautions must be taken to prevent pollution of surface and groundwater sources by pretreatment of mine water in Ion Chamber unit with water softener beds and mine seepage should be pumped out, through unlined channel, into nearby water bodies.
- All measures must be taken to see that water table in mining area should not be Lower than nearby Godavari River Surface water flows (from center of River bed).
- Suitable afforestation in the nearby area must be taken up.
- Precautions to be taken to prevent damage of stream flow direction during the mining.
- Proposed diversion of drainage channels should be unlined and change in irrigation area may be worked out from present to every year (mainly with additional mine water), if any.
- Artificial Recharge Structures like Check dams with recharge shafts, rock fill dams, Stone check dams, Gabion Structures on the smaller streamlets within 10 Kms distance should be constructed well before initiation of mining activity and importance should be given for augmentation of ground water conservation in contact zones and the SCCL is advised to consult District Ground Water Officer for technical advice and monitoring of harvesting structures.
- Recharge pits has to be constructed in every house hold of where the deep groundwater levels are observed apart from the existing structures.
- Status and Completion report on Construction of all types of Artificial Recharge Structures are to be submitted to the undersigned well in advance to initiation of mining activity.
- Provisions should be made to maintain present use/supply of groundwater in and around the area and also its restoration use to any adverse effects as a result of mining in future.
- Annual water budget must be carried out and data be furnished to the District Ground Water Officer, Ground Water Department, Mancherla District.
- Ground Water Department or CGWA officials have the right to inspect the mine at any time for carrying out ground water impact study.
- All the Mining projects shall be required to pay groundwater abstraction charges as per CGWA rules thereon, as and when enforced through TSWALTA by Govt. of Telangana.
- Digital flow meter should be installed wherever mine water is extracted in Mining area and data should be preserved and submitted to DGWO, along with water levels on monthly basis and the data should be consolidated in annual water budget calculation.
- Groundwater Modeling studies on likely impact should be carried out and the report should be submitted to the District Ground Water Officer, Ground Water Department, Mancherla District with copy to the Director, Ground Water Department, Hyderabad.
- Mining Authorities should take up impact assessment studies through SCCL Hydrogeology officials from time to time and submit the report to Director, GWD, Govt. of Telangana before approaching for renewal.

**NOC is accorded for two years initially and proponent should approach to the authorities for renewal well in advance.**

Proposed project on **"Srirampur Opencast-II Expansion Project of SCCL in Srirampur Area of Mancherla District"** in authority has to adhere the above recommendations otherwise Groundwater Department, Government of Telangana reserves the right to take action as per rules in vogue without any prior notice.



*[Signature]*  
District Ground Water Officer,  
Ground Water Department,  
Mancherla.

**POST PROJECT AMBIENT AIR QUALITY MONITORING DATA FOR THE PERIOD FROM APRIL, 2024 to SEPTEMBER, 2024 FOR SRIRAMPUR OPENCAST-II EXPANSION PROJECT.**

❖ Location of the Ambient Air Quality monitoring Station : SRP OC-II Site office

Sl. No.	Station Name	Date of Sampling	Parameters ( µg/Cu. Mtr.)			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	Coal mine standards GSR 742(E), dtd.25.09.2000 & NAAQS, Dtd.18.11.2009		250	--	120	120
1.	SRP OCP Site Office.	11.04.2024	182	67.4	9.8	13.9
		24.04.2024	160	58.5	9.3	13.8
		09.05.2024	175	74.8	10.6	15.4
		24.05.2024	177	74.8	9.7	14.9
		08.06.2024	172	54.7	10.9	15.9
		25.06.2024	179	75.6	9.7	13.9
		09.07.2024	177	55.4	9.8	12.9
		24.07.2024	129	44.5	10.1	13.9
		09.08.2024	130	59.9	10.9	13.9
		24.08.2024	120	44.4	10.7	16
		09.09.2024	137	69.6	9.5	14.6
		25.09.2024	141	68.5	9.7	15.2
	Minimum		120.0	44.4	9.3	12.9
	Maximum		182.0	75.6	10.9	16.0
	Average		156.6	62.3	10.1	14.5
	98% tile		181.3	75.4	10.9	16.0

❖ Location of the Ambient Air Quality monitoring Station: SRP OC-I Base workshop.

Sl. No.	Station Name	Date of Sampling	Parameters ( µg/ Cu.Mtr.)			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	Coal mine standards GSR 742(E), dtd.25.09.2000 & NAAQS, Dtd.18.11.2009		250	--	120	120
2.	SRP OCP-I & II Base workshop	11.04.2024	209	77.2	11.4	14.6
		24.04.2024	194	64.2	9.6	15.8
		09.05.2024	211	79.5	10.6	14.8
		24.05.2024	213	77.6	10.5	14.7
		08.06.2024	184	57.6	9.7	12.4
		25.06.2024	193	76.8	11.5	15.2
		09.07.2024	185	57.9	9.5	14
		24.07.2024	130	46.4	10.9	13.6
		09.08.2024	142	61.7	10.4	14.8
		24.08.2024	127	46.7	12.1	16.2
		09.09.2024	145	72.4	10.9	14.7
		25.09.2024	137	62.1	9.2	12.6
	Minimum		127.0	46.4	9.2	12.4
	Maximum		213.0	79.5	12.1	16.2
	Average		172.5	65.0	10.5	14.5
	98% tile		212.6	79.1	12.0	16.1

❖ Location of the Ambient Air Quality monitoring Station : Srirampur Colony.

Sl. No.	Station Name	Date of Sampling	Parameters ( µg/Cu. Mtr.)			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	Coal mine standards GSR 742(E), dtd.25.09.2000 & NAAQS, Dtd.18.11.2009		250	--	120	120
3.	SRP OCP-II Pit Head CHP	11.04.2024	216	74.5	12.5	17.8
		24.04.2024	214	67.8	9.6	13.6
		09.05.2024	218	81.3	12.4	15.9
		24.05.2024	209	75.1	9.7	13.9
		08.06.2024	218	67.2	11.2	17.1
		25.06.2024	196	79.7	10.9	15.6
		09.07.2024	198	59.2	11.1	15.4
		24.07.2024	158	51.3	9.7	14.2
		09.08.2024	160	64.1	9.7	13.7
		24.08.2024	143	51.9	10.7	15.9
		09.09.2024	159	71.5	9.2	13
		25.09.2024	149	64.2	10.6	14.8
	Minimum		143.0	51.3	9.2	13.0
	Maximum		218.0	81.3	12.5	17.8
Average		186.5	67.3	10.6	15.1	
	98% tile		218.0	80.9	12.5	17.6

- No standard was specified for PM<sub>2.5</sub> in core zone

❖ Location of the Ambient Air Quality monitoring Station: SRP OCP Camp Office

Sl. No.	Station Name	Date of Sampling	Parameters ( µg/Cu. Mtr.)			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	Coal mine standards GSR 742(E), dtd.25.09.2000 & NAAQS, Dtd.18.11.2009		250	--	120	120
4.	SRP OCP-II Camp Office	11.04.2024	187	69.4	11.7	15.4
		24.04.2024	178	59.9	11.5	15.2
		09.05.2024	163	72.4	11.9	16.7
		24.05.2024	182	69.3	11.9	15.2
		07.06.2024	166	61.3	10.4	16.6
		24.06.2024	182	62.5	10.6	15.8
		08.07.2024	167	47.3	11.5	14.1
		23.07.2024	142	53.8	11.2	14.5
		08.08.2024	119	51.2	11.7	14.1
		23.08.2024	108	53.2	12.1	15.4
		09.09.2024	138	64.8	11.4	17.1
		25.09.2024	140	67.4	10.2	16.4
	Minimum		108.0	47.3	10.2	14.1
	Maximum		187.0	72.4	12.1	17.1
Average		156.0	61.0	11.3	15.5	
	98% tile		185.9	71.7	12.1	17.0

-No standard was specified for PM<sub>2.5</sub> in core zone

❖ Location of the Ambient Air Quality monitoring Station : Srirampur Colony

Sl. No.	Station Name	Date of Sampling	Parameters ( µg/Cu.Mtr.)			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	NAAQ Standards, CPCB dtd,18.11.2009		100	60	80	80
5.	Srirampur Colony	09.04.2024	80	41.5	11.6	14.7
		25.04.2024	79	42.5	9.1	13.7
		10.05.2024	87	46.7	9.2	15.4
		25.05.2024	85	44.2	8.6	14.9
		10.06.2024	57	32.4	9.8	14.5
		26.06.2024	77	39.6	9.6	13.8
		10.07.2024	62	33.2	7.8	12.1
		25.07.2024	68	36.8	8	12.2
		10.08.2024	60	34.4	9.8	12.4
		27.08.2024	59	31.3	10.4	13.7
		10.09.2024	54	29.5	10.5	13.2
		26.09.2024	59	32.5	8.5	12
	Minimum		54.00	29.50	7.80	12.00
	Maximum		87.00	46.70	11.60	15.40
Average		68.92	37.05	9.41	13.55	
	98% tile		86.56	46.15	11.36	15.29

❖ Location of the Ambient Air Quality monitoring Station: Srirampur Village

Sl. No.	Station Name	Date of Sampling	Parameters ( $\mu\text{g}/\text{Cu. Mtr.}$ )			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	NAAQ Standards, CPCB dtd,18.11.2009		100	60	80	80
6.	Srirampur Village	09.04.2024	61	34.2	8.2	13.2
		24.04.2024	87	46.7	8.7	14.1
		09.05.2024	77	39.2	8.6	14.6
		24.05.2024	67	37.5	9.2	14.8
		08.06.2024	84	44.7	9	12.9
		25.06.2024	76	38.5	9.2	12.8
		09.07.2024	76	39.1	9	13.4
		24.07.2024	56	33.2	10.2	13.1
		09.08.2024	55	30.8	9	12.2
		24.08.2024	53	29.8	9.8	12.9
		09.09.2024	62	33.3	8	12.9
		25.09.2024	71	38.6	9.8	14.8
	Minimum		53.0	29.8	8.0	12.2
	Maximum		87.0	46.7	10.2	14.8
Average		68.8	37.1	9.1	13.5	
	98% tile		86.3	46.3	10.1	14.8

❖ Location of the Ambient Air Quality monitoring Station: Sitharampalli Village

Sl. No.	Station Name	Date of Sampling	Parameters ( $\mu\text{g}/\text{Cu.Mtr.}$ )			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	NAAQ Standards, CPCB dtd,18.11.2009		100	60	80	80
7.	Sitharampalli Village	11.04.2024	82	44.5	9.2	12.4
		24.04.2024	77	38.7	8	13
		09.05.2024	66	36.3	7.1	14.4
		24.05.2024	67	38.3	10	12.2
		08.06.2024	59	31.8	9.6	12.7
		25.06.2024	69	37.4	8.6	13.4
		09.07.2024	65	35.4	8.6	14.6
		24.07.2024	60	31.5	8.8	12.4
		09.08.2024	50	28.1	8.3	12.7
		24.08.2024	63	35.4	8	13
		09.09.2024	67	36.5	9.6	12.4
		25.09.2024	68	36.4	9.7	13.7
	Minimum		50.00	28.10	7.10	12.20
	Maximum		82.00	44.50	10.00	14.60
	Average		66.08	35.86	8.79	13.08
	98% tile	80.90	43.22	9.93	14.56	

❖ Location of the Ambient Air Quality monitoring Station: Ramaraopet village

Sl. No.	Station Name	Date of Sampling	Parameters ( $\mu\text{g}/\text{Cu.Mtr.}$ )			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	NAAQ Standards, CPCB dtd,18.11.2009		100	60	80	80
8.	Ramaraopet Village	11.04.2024	86	44.9	8	11.5
		23.04.2024	90	47.4	9	13.8
		08.05.2024	72	38.1	10.2	14.2
		23.05.2024	87	48.2	10.1	13.7
		07.06.2024	84	44.5	8.6	13.4
		24.06.2024	74	39.5	9.8	12.4
		08.07.2024	63	34.8	9	12.2
		23.07.2024	68	36.8	10.4	13.7
		08.08.2024	57	29.2	10	13.4
		23.08.2024	58	30.2	10	13.8
		07.09.2024	53	29.8	9.7	12.5
		24.09.2024	56	31.2	9.2	12.1
	Minimum		53.0	29.2	8.0	11.5
	Maximum		90.0	48.2	10.4	14.2
	Average		70.7	37.9	9.5	13.1
	98% tile		89.3	48.0	10.4	14.1

# ATTITUDE OF PHREATIC SURFACE IN SRIRAMPUR AREA

Well No.	Name of the Village	Location	Owner's name	Type of well	Total depth (m)	MP (m)	Dia(m)	Depth to water (m)		
									2023	2024
1	Arunakka Nagar	Near GM Office, 18°51'18.38" N, 79°30'40.68"E	N. Lingaiah	DW	9.40	1.00	1.00	Winter	3.84	4.38
								Pre monsoon	5.27	5.20
								Monsoon	1.64	1.43
								Post monsoon	2.49	
2	RK6 Colony	Near Shiva temple, 18°52'15.84" N, 79°30'04"E	Q.No.SA-13	DW	10.00	1.20	1.20	Winter	1.74	2.52
								Pre monsoon	3.53	3.70
								monsoon	0.81	0.90
								Post monsoon	1.53	
3	RK6 Colony	Kurma wada, 18°52'14" N, 79°30'04"E	Karre Posham	DW	6.50	1.00	1.00	Winter	2.96	1.87
								Pre monsoon	1.90	2.18
								Monsoon	1.28	1.30
								Post monsoon	1.63	
5	Srirampur (Naspur X road)	Naspur X Road, 18°51'17"N, 79°28'48"E	Suddula Shankar	DW	10.00	0.60	1.00	Winter	6.18	6.24
								Pre monsoon	7.82	7.85
								Monsoon	4.29	2.85
								Post monsoon	4.68	
6	Setharampalli	On the way to Intake well, 18°50'31.72" N, 79°28'34.46"E	Surimella Lachanna	DW	8.50	1.00	1.00	Winter	2.92	3.76
								Pre monsoon	4.47	5.80
								Monsoon	2.23	1.58
								Post monsoon	2.87	
7	Setharampalli	On the way to Tallapalli, 18°50'37.91"N, 79°29'0.81"E	M. Gopaiah	DW	15.00	1.20	1.20	Winter	10.31	10.55
								Pre monsoon	13.30	13.00
								Monsoon	5.00	3.50
								Post monsoon	7.25	
		Roadside, 18°49'59" N, 79°29'16"E	Rukum Ramaiah					Winter	2.08	2.96
								Pre monsoon	2.17	3.09

Well No.	Name of the Village	Location	Owner's name	Type of well	Total depth (m)	MP (m)	Dia(m)	Depth to water (m)		
									2023	2024
8*	Tallapalli			DW	9.10	3.00	3.00	Monsoon	2.03	2.60*
								Post monsoon	2.05	
9	Tallapalli	Towards OC, 18°50'3.60"N, 79°29'34.41"E	B.Rajaiah	DW	10.50	1.20	1.20	Winter	5.97	6.80
								Pre monsoon	9.97	7.15
								Monsoon	4.40	2.89
								Post monsoon	6.15	
10	Singapuram	Opp.Panchayat office, 18°49'26.43" N, 79°30'11.09"E	Nammala Srinivasu	DW	7.40	3.20	3.20	Winter	3.18	AB
								Pre monsoon	4.17	AB
								Monsoon	1.83	AB
								Post monsoon	2.54	
12	Ramaraopet	Near bridge, 18°49'17.80" N, 79°30'48.89"E	Gunta Chadraiah	DW	7.00	1.30	1.30	Winter	5.22	4.85
								Pre monsoon	5.67	5.60
								Monsoon	1.08	1.00
								Post monsoon	3.53	
14	Indaram	Opp.Essar petrol bunk, 18°49'13.91" N, 79°31'39.44"E	Adla Bakkaiah	DW	11.50	3x4	3X4	Winter	6.17	5.60
								Pre monsoon	3.60	6.53
								Monsoon	3.44	2.00
								Post monsoon	3.46	
18	Tekumatla	Along the road, 18°48'48.52" N, 79°32'37.20"E	Ricemill (Kamalakar)	DW	11.50	1.60	1.60	Winter	9.74	8.50
								Pre monsoon	11.37	11.40
								Monsoon	7.68	7.07
								Post monsoon	8.21	
19	Tekumatla	Along the road, 18°48'40.20" N, 79°32'50.84"E	V. Ramireddy	DW	11.00	1.00	1.00	Winter	3.88	4.00
								Pre monsoon	5.07	4.70
								Monsoon	3.10	2.10
								Post monsoon	3.19	
20	Indaram	On the way to Tekumatla, 18°49'11.71" N, 79°31'59.03"E	Govt. Well	DW	9.30	2.00	2.00	Winter	4.86	4.26
								Pre monsoon	7.37	7.30
								monsoon	3.73	3.00
								Post monsoon	4.10	

Well No.	Name of the Village	Location	Owner's name	Type of well	Total depth (m)	MP (m)	Dia(m)	Depth to water (m)		
									2023	2024
21	Indaram	Side of HP petrol bunk, 18°49'39.46" N, 79°31'39.96"E	M.Uppalaiah	DW	8.00	1.20	1.20	Winter	6.33	6.19
								Pre monsoon	6.40	6.45
								Monsoon	2.01	2.30
								Post monsoon	2.81	
22*	Rasulpalli	Near bus stop, 18°50'33.40" N, 79°33'8.13"E	Gomati sattaiah	DW	8.00	1.00	1.00	winter	2.98	2.85
								Pre monsoon	3.05	3.00
								monsoon	1.48	1.22*
								Post monsoon	2.44	
23	Mudikunta	Near Village junction, 18°51'43.69" N, 79°33'18.11"E	G.Rajaiah	DW	11.40	1.20	1.00	Winter	5.08	6.20
								Pre monsoon	5.51	8.20
								Monsoon	2.70	2.00
								Post monsoon	3.28	
25	Kankur	SC Colony, 18°53'07" N, 79°32'44"E	Reguntla Mallesh	DW	10.00	2.30	2.30	Winter	6.82	2.63
								Pre monsoon	2.85	3.00
								Monsoon	2.00	1.75
								Post monsoon	2.47	
26	Jaipur	Near bus stop, 18°50'41.33" N, 79°34'43.27"E	Behind AE off.	DW	12.00	1.00	1.00	Winter	2.99	3.45
								Pre monsoon	3.80	3.96
								Monsoon	0.88	0.83
								Post monsoon	1.21	
28	Venkata Raopalli	Opp. to Primary School, 18°52'5.81" N, 79°34'39.14"E	--	Ag.W	14.00	1.80	1.80	Winter	2.09	3.00
								Pre monsoon	3.12	4.15
								Monsoon	0.58	AB
								Post monsoon	2.04	
29	Mittapalli	Village center, 18°52'30" N, 79°33'36"E	Gaddam Suresh goud	DW	8.00	1.00	1.00	Winter	5.73	5.33
								Pre monsoon	4.39	4.44
								Monsoon	1.83	3.28
								Post monsoon	4.10	
30	Elkanti	Village center,	Jalampalli Posha mallu	DW	10.00	2.40	2.40	Winter	6.72	4.40
								Pre monsoon	9.70	8.20



Well No.	Name of the Village	Location	Owner's name	Type of well	Total depth (m)	MP (m)	Dia(m)	Depth to water (m)		
									2023	2024
		18°48'07"N, 79°34'24"E	(GDK10A-Maz.)					Monsoon	1.70	1.60
								Post monsoon	2.73	
31	Ponnaram	Opp.to TSSWR School, 18°55'26.88" N, 79°32'31.76"E	Penchal Anjanna	DW	8.00	1.00	1.00	Winter	3.40	3.83
								Pre monsoon	4.67	4.71
								Monsoon	2.08	1.88
								Post monsoon	3.11	
32	Gudipalli	Along the mainroad, 18°54'4.14"N, 79°32'25.41"E	Velpula Sampath	Ag.W	11.00	5.00	5.00	Winter	6.91	6.98
								Pre monsoon	7.67	7.71
								Monsoon	3.38	2.48
								Post monsoon	5.73	
33	Gangipalli	Primary school road, 18°48'31.31" N, 79°35'4.60"E	Opp.Naredla Mallareddy /Pusala Rajeswari	DW	10.00	1.50	1.50	Winter	4.63	7.56
								Pre monsoon	Dry	5.28
								Monsoon	4.75	2.44
								Post monsoon	4.88	
36	Shetpalli	Near Hanuman temple, 18°46'52" N, 79°34'26"E	Rangu Kittiah	DW	8.00	2.00	2.00	Winter	6.87	3.75
								Pre monsoon	4.10	6.50
								monsoon	3.02	1.56
								Post monsoon	3.21	
37	Jaipur	Opp.to Post office, 18°50'45.19" N, 79°35'10.70"E	Beeskula Mallaiah	DW	10.00	1.50	1.50	Winter	6.96	6.82
								Pre monsoon	7.02	7.72
								Monsoon	4.08	3.60
								Post monsoon	4.49	
38	Jaipur	Hanmanwada, 18°50'56.36" N, 79°35'5.14"E	Bhuneni Rajaiah, Near Gram panchayath	DW	10.00	2.00	2.00	Winter	6.86	7.56
								Pre monsoon	8.30	8.35
								Monsoon	6.19	AB
								Post monsoon	6.28	
39	Narwa	Village entrance, 18°51'09" N, 79°33'49"E	Salluri venkatesh SCCL Employee	DW	12.00	2.00	2.00	Winter	8.81	8.82
								Pre monsoon	10.50	10.69
								Monsoon	6.08	4.90
								Post monsoon	7.75	

Well No.	Name of the Village	Location	Owner's name	Type of well	Total depth (m)	MP (m)	Dia(m)	Depth to water (m)		
									2023	2024
40	Gudipalli	OpptoSC Colony, 18°54'6.84"N, 79°32'12.90"E	Segyam rajuwell/Openland	DW	10.00	3.00	3.00	Winter	6.54	6.50
								Pre monsoon	dry	8.10
								Monsoon	3.23	2.49
								Post monsoon	5.18	
41	VenkataRaopalli	Villagecenter, 18°52'6.46"N, 79°34'33.74"E	Durgam Kishtaiah	DW	12.00	5.00	5.00	Winter	6.28	7.50
								Pre monsoon	7.67	8.00
								Monsoon	3.39	3.00
								Post monsoon	4.05	
42	Narsingapur	Near Hanuman temple, 18°47'17.08" N, 79°35'17.18"E	Naskur Mallaiah	DW	12.00	1.00	1.00	Winter	5.39	6.25
								Pre monsoon	8.28	8.28
								Monsoon	2.74	1.00
								Post monsoon	3.45	
43	Bejjala	Village Centre, 18°46'11.73" N, 79°34'53.69"E	ThotaBapu, Adj.to Grampanchayath	DW	10.00	3.00	3.00	Winter	4.91	4.30
								Pre monsoon	5.93	6.12
								Monsoon	2.56	3.00
								Post monsoon	3.78	
44	Kistapur	Near Hanuman temple, 18°44'53.49" N, 79°38'7.81"E	Dhanda Krishna Reddy	DW	8.00	1.00	1.00	Winter	4.10	4.64
								Pre monsoon	dry	5.00
								Monsoon	3.35	1.00
								Post monsoon	3.90	
45	Maddulapalli	Village center, 18°47'2.53"N, 79°36'12.36"E	SandhanaveniBala iah/ SCCL Employee	DW	9.00	2.00	2.00	Winter	5.99	3.74
								Pre monsoon	6.47	6.41
								Monsoon	0.88	2.00
								Post monsoon	1.38	
46	Polampalli	Indirama colony, 18°50'25.66" N, 79°39'8.63"E	Dharshinala Madhukar	DW	7.50	1.00	1.00	Winter	4.64	3.54
								Pre monsoon	4.80	5.00
								Monsoon	1.80	1.00
								Post monsoon	3.24	
47	Bhimaram	Alongthehighway, 18°50'51.85" N,	Bandari Ramaiah	DW	11.00	3.60	3.60	Winter	4.18	WD
								Pre monsoon	WD	WD
								Monsoon	NA	1.00

Well No.	Name of the Village	Location	Owner's name	Type of well	Total depth (m)	MP (m)	Dia(m)	Depth to water (m)		
									2023	2024
		79°40'38.25"E						Post monsoon	WD	
48	Bhimaram	Padmashaliwada, 18°51'10.60" N, 79°40'18.97"E	Kokkula Ramulu	DW	9.00	1.16	1.15	Winter	2.08	2.00
								Pre monsoon	2.20	2.53
								Monsoon	1.18	1.15
								Post monsoon	1.93	
49	Kothagudem	Adj.to Road,18°51'47.07" N, 79°40'31.14"E	Govt well	Ag.W	5.50	4.00	4.00	Winter	1.88	2.85
								Pre monsoon	2.41	3.32
								Monsoon	1.18	4.00
								Post monsoon	1.99	
50	Kazipalli	Village Entrance,18°55'26.98" N, 79°38'44.18"E	Kommu Devender	DW	7.00	2.00	2.00	Winter	5.51	5.80
								Pre monsoon	6.27	6.32
								Monsoon	3.10	2.00
								Post monsoon	4.84	
51	Dampur	Gollawada, 18°54'45.59" N, 79°37'52.25"E	Korivi Thirupathi	DW	10.50	1.90	1.90	Winter	4.57	4.30
								Pre monsoon	6.47	4.60
								monsoon	2.64	1.90
								Post monsoon	3.89	
52	Reddipalli	Village center, 18°55'22.45" N, 79°37'12.10"E	Kudentha Nelamma	DW	10.00	2.50	2.50	Winter	3.54	4.41
								Pre monsoon	3.97	4.60
								monsoon	2.64	2.50
								Post monsoon	2.08	
53	Dharmaram	Village center, 18°55'29.90" N, 79°36'52.94"E	Santhosham Sriram Reddy	DW	10.00	2.45	2.45	Winter	2.08	3.18
								Pre monsoon	3.22	4.03
								Monsoon	2.77	2.45
								Post monsoon	1.80	
54	Theegalpahad	Opp.to Bharat petroleum bunk, 18°51'23.15" N, 79°29'24.72"E	Md.Rahman S/o Kaleel	DW	10.00	2.00	2.00	Winter	3.18	3.20
								Pre monsoon	4.37	5.60
								Monsoon	2.36	2.00
								Post monsoon	3.11	
55	Mudikunta	Village center,18°51'42.63" N, 79°33'16.24"E	Padala Shankaraiah S/o Gattaiah	DW	15.00	2.20	2.20	Winter	5.10	3.35
								Pre monsoon	11.07	10.50
								Monsoon	2.70	2.20
								Post monsoon	3.65	

Well No.	Name of the Village	Location	Owner's name	Type of well	Total depth (m)	MP (m)	Dia(m)	Depth to water (m)		
									2023	2024
56	Mancherial	Opp.Sunnambattiwada, 18°51'47.99" N, 79°27'25.30"E	PesaraRayalingu	DW	15.00	2.20	2.20	Winter	8.91	8.45
								Pre monsoon	8.45	8.60
								Monsoon	4.19	2.20
								Post monsoon	6.80	

**Note: MP: Measuring point ,WD: Well Damaged.**  
**Well No.:4,11,13,15,16,17,24,27,34&35 were Abandoned.**

#### ATTITUDE OF PIEZOMETRIC SURFACE AROUND SRIRAMPUR OC-II EXPANSION PROJECT

Piezometric well no.	Location	Depth (m)	Dia. (m)	Measuring point (m)	Depth to water (m)		
					Winter 2024	Pre monsoon 2024	Monsoon-2024
SRP_OCP.I PW-5	About 500 m south of the quarry and 150m north of Indaram Tank (N18°49'35.43" – E 79°30'57.60" )	208	0.10	0.30	2.74	4.53	1.20
SRP_OCP.II PW-7	Near Singapur village (N18°49'46.47" – E 79°30'25.52" )	50	0.10	0.20	AB	AB	AB
SRP_OCP.II PW-8	Near Project Office sub-station. About 125m from N side of quarry surface limit. (N18°51'4.12" – E 79°29'39.90" )	50	0.10	0.40	22.98	23.80	17.70
SRP_OCP.II PW-10	Road to SRP bus stand, about 300m from N side of quarry surface limit	50	0.1	0.50	15.90	17.07	17.00

	(N18°51'7.10" – E 79°30'11.26" )						
*SRP_CSIRO PW-11	West side External dump area, Near to Thallapalli village. (N18°49'54.731" – E 79°29'11.085	50	0.1	0.2	NA	NA	AB
*SRP_CSIRO PW-12	West side External dump area. Near to Thallapalli village (N18°49'50.573" - E 79°29'06.202")	50	0.1	0.2	2.00	2.65	NA
*SRP_CSIRO PW-13	West side External dump area. Road to Godavari river (N18°49'45.286" – E 79°29'06.811")	50	0.1	0.2	3.25	4.22	2.20
*SRP_CSIRO PW-14	West side External dump area. Road to Godavari River (N18°49'32.305" – E 79°28'50.154")	50	0.1	0.2	4.55	6.48	4.24

Note: Piezometric well No.- SRP OCP-PW\_1, 2, 3, 4 and 6,7 & 9 were abandoned.

WD: Well damaged, \*NA: Not Approachable.

# ATTITUDE OF PHREATIC SURFACE IN GODAVARI VALLEY COAL FIELD

Area: **Chennur**

Well No	Name of the Village	Location	Owners Name	Type of well	Total depth (m)	MP (m)	Dia (m)	D T W (m)		
								Winter-2024	Pre monsoon-2024	Monsoon-2024
5	Chennur	Srinagar Colony, 18°51'16.48" N, 79°46'56.91"E	Sabbani Devaiah	DW	8.50	0.50	1.20	4.98	7.40	2.75
8	Chennur	Towards Theatre road, 18°51'27" N, 79°47'18"E	Rambai	DW	10.00	0.60	0.80	WD	WD	4.30
10	Shivalingapur (Chennurlocal)	18°51'39.30"N, 79°47'31.03"E	Ch. Rangaiah	DW	7.80	0.70	2.00	6.74	6.90	1.50
12	Chennur	ChennurG.P.Kothagudem, 18°51'33"N, 79°47'05"E	SunkariLingaiah	DW	10.00	G.L.	1.20	9.95	9.91	2.20
13	Chennur	Jendawada, 18°51'37.68" N, 79°47'49.81"E	Monitoring by TSGWD	DW	10.00	G.L.	1.20	2.44	3.50	AB
14	Chennur	Bokkalagudem 18°51'30" N, 79°48'03"E	Govt well	DW	11.00	0.50	3.50	4.32	6.90	2.00



15	Kistampet	Opp. ZPHS School, 18°50'52.81" N, 79°45'14.11"E	Bera Chiranjeevi	DW	7.00	0.55	3.60	3.73	4.10	0.73
16	Ellakkapet	TowardsLambadipalliroad,18°5 1'24.53" N, 79°45'45.78"E	Opp.toCheruvu	Ag. W	10.00	GL	8.00	3.41	3.57	2.75
17*	Shivalingapur (village)	18°52'55"N, 79°47'51"E	MekalaGattak ka	DW	8.00	0.50	2.00	4.64	7.40	2.95
18	Buddaram	Endofthevillage, 18°54'51.82" N, 79°42'50.66"E	Kotavena odelu	Ag.W	9.50	0.40	2.70	8.82	9.00	3.42
19	Kotapalli	TowardsVemanapalli 18°57'20.76" N, 79°47'24.35"E	Kashetti Ramaiah	DW	11.00	0.50	1.50	2.35	2.41	1.25

**Note:-MP: Measuring point, Observation**

**well No.: From 1 to 4,6,7,9 &11 were Abandoned**

**\*Observation wellNo.17was shifted about 300m distance towards West.**

Block / Mine : **IKOCP Area: Srirampur**

Piezometric Well No.	Location	Depth(m)	Dia(m)	MP (m)	Depth to water(m)		
					Winter-2024	Pre Monsoon-2024	Monsoon-2024
IKOCP-PW1	On the way to PO office, adj. to coal transport road, Dip side of the project.3057126.41,949693.45	250	0.10	1.35	15.00	16.56	14.00
IKOCP-PW2	Near Indaram village, On the way to PO office adj. to coal transport road, Dip side of the project.3056296.11,950728.54	250	0.10	1.35	28.14	30.16	25.00

Block / Mine : **CHENNUR SAND MINE LEASE**

Piezometric Well No.	Location	TD(m)	Dia(m)	MP (m)	Monsoon-2024
					DTW(m)
PW-2	First well from upstream side of Godavari river (SW edge of the sand lease, Opp to Palgula village)18°50'34.9"N,79°49'21.7"E	30	0.10	0.30	<b>AB</b>
PW-4	Third well from upstream side 18°51'12.8"N,79°49'16.5"E	30	0.10	0.30	<b>3.10</b>

<b>PW-5</b>	Fourth well from upstream and adjacent to the road connecting the sand reach 18°51'31.7"N, 79°49'20.7"E	30	0.10	0.30	<b>7.80</b>
<b>Filter well</b>					
<b>PW-2</b>	Between PW-3 and PW-4 18°50'59.3"N, 79°49'17.4"E	9.75	0.10	0.40	<b>3.50</b>

Note: TD: Total depth, MP: Measuring point, WD: Well damaged and AB: Abandoned.

Piezometric well No: Filter well PW-1 was abandoned and Piezometric well No: PW-1,2,3,6&7 are abandoned due to heavy flood in River Godavari.







**THE SINGARENI COLLIERIES COMPANY LIMITED**

(A Government Company)

Environment Department

Srirampur Area

Ref.No. SRP/ENV/Q-403/2024/46.

Date: 06.03.2024

To  
The Executive Engineer,  
Irrigation Division No.1,  
Mancherial.

Sir,

Sub: Submission of Riverine/Riparian Ecosystem Conservation and Management  
Plan for Srirampur Opencast-II Expansion Project, Srirampur Area – Reg

\*\*\*\*\*

With reference to the subject mentioned above, SCCL pleased to submit the report on the Riverine/Riparian Ecosystem Conservation and Management plan. This plan is an integral part of the Environmental Compliance (EC) measures implemented by SCCL, Srirampur Opencast-II Expansion Project, Srirampur Area, in consultation with the Telangana State Irrigation & CAD Department.

Please find enclosed herewith the detailed report on the strategies and actions proposed for the conservation and management of the Riverine/Riparian Ecosystem. SCCL has developed this plan to ensure adherence to environmental regulations and sustainability practices.

Your kind attention and approval for this plan are earnestly requested. This submission aligns with the commitment of SCCL, Srirampur Opencast-II Expansion Project towards environmental responsibility and cooperation with relevant authorities.

This is for your information and necessary action.

Yours faithfully,

  
General Manager,  
Srirampur Area  
General Manager  
SRIRAMPUR

Encl: Report on Riverine/Riparian Ecosystem  
Conservation and Management plan.





**Annexure-XV.****MONITORING OF BLAST INDUCED GROUND VIBRATIONS AT SRIRAMPUR Opencast-II Expansion project**

Sl.No	Date	Blasting RL	Location	Minimate Station distance from Blasting area (in mtrs)	Ground vibration reading p.p.v.mm/sec.	Sound level dB(A)Decibels
1.	01.04.2024	840	RAMARAOPET	750	0.773	<88
2.	02. 04.2024	760	GUTHEDARPALLI	790	0.284	100.0
3.	03. 04.2024	740	GUTHEDARPALLI	750	0.696	<88
4.	04.04.2024	740	GUTHEDARPALLI	775	0.421	101.9
5.	04.05.2024	740	Ramaraopet uder bridge	900	0.582	107.0
6.	05.05.2024	850	Guthedarpalli	600	0.220	109.5
7.	06.05.2024	850	Guthedarpalli	650	0.475	117.9
8.	07.05.2024	790	Guthedarpalli	900	0.582	109.9
9.	04.06.2024	760	Ramaraopet uderbridge	1280	< Trigger value	< Trigger value
10.	05.06.2024	780	Ramaraopet uderbridge	910	0.186	106.0
11.	06.06.2024	760	Ramaraopet uderbridge	1280	< Trigger value	< Trigger value
12.	07.06.2024	840	Ramaraopet uderbridge	1200	0.432	102.8
13.	08.07.2024	770	Guthedarpalli	620	1.191	91.48
14.	09.07.2024	850	Railway bund	1300	< Trigger value	< Trigger value
15.	10.07.2024	820	Railway bund	1000	< Trigger value	< Trigger value
16.	11.07.2024	750	Railway bund	1050	< Trigger value	< Trigger value
17.	07.08.2024	725	Guthedarpalli Village	860	< Trigger value	< Trigger value
18.	08.08.2024	840	Srirampur bus stand	560	0.982	<88
19.	09.08.2024	730	Guthedarpalli Village	750	0.785	91.48
20.	10.08.2024	840	Srirampur bus stand	300	1.013	117.8
21.	05.09.2024	720	Ramaraopet under bridge	990	Not Triggered	Not Triggered
22.	06.09.2024	700	Ramaraopet under bridge	1170	Not Triggered	Not Triggered
23.	07.09.2024	770	Ramaraopet under bridge	870	Not Triggered	Not Triggered
24.	08.09.2024	720	Ramaraopet under bridge	990	Not Triggered	Not Triggered



THE SINGARENI COLLIERIES COMPANY LIMITED  
(A GOVERNMENT COMPANY)  
Srirampur Area

Ref: SRP/EST/ 2024/ 198

Date: 24.04.2024

To  
The District Collector,  
Mancherial District.

Sir,

**Sub:** Request for identification and development of grazing land for cattle within  
10 kms buffer zone of SRP OCP-II Expansion Project in Govt. vacant land-Reg.

\*\*\*\*\*

Kind attention is invited to the above captioned subject.

This is to bring to your kind notice that the MoEF & CC granted Environmental Clearance for Expansion of Srirampur Opencast-II Coal Mining Project for a capacity of 3.5 MTPA, Vide Lr. No: F.No.J-11015/212/2007-IA-II(M), Dtd: 23.01.2023, in which a statutory condition No. 4.1(g)(vi) was stipulated which reads as "The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land" (Copy enclosed as Annexure- I )

As the present existing grazing lands used by villagers will be affected, it is necessary to identify and develop alternative grazing land, near the project area, i.e., within 10 kms., buffer zone of project to provide to the villagers for cattle grazing purpose. The relevant plan showing affected grazing land and also showing the villages falling in the 10 kms., radius, i.e., buffer zone of the same is enclosed for ready reference. (Plan enclosed as Annexure- II).

Therefore, it is requested to advise the concerned to identify and provide Govt. vacant land for surrounding villagers cattle's grazing to comply the above EC condition of MoEF. Until then, a part of the land which is on the South East side of the SRP OCP-II expansion project External dump yard may be utilized for grazing purposes, as indicated in the enclosed plan as Annexure- II.

This is for kind information and necessary action please.

Yours faithfully



*[Signature]*  
General Manager  
Srirampur area, SCCL  
General Manager  
SRIRAMPUR

CC to: 1) Revenue Divisional Officer, MNCL.

2) Tahsildar, Naspur with a request to identify grazing land in Govt. vacant lands

3) Tahsildar, Jaipur within 10kms in buffer zone of SRP OCP-II Expansion Project.

**Revenue Expenditure incurred on Environment Management and Pollution Control Measures:**

Sl. No	Expenditure Head	Capital Expenditure (in Rs.)	Revenue Expenditure (in Rs.)		
		Up to 2024-25 (apr-sep)	Up to 2023-24	2024-25 (apr-sep)	Total
I	Air pollution (Prevention & control)	3742882	131323972.9	8247963.96	<b>139571936.9</b>
II	Water pollution (Prevention & Control)	4225704	14468574.3	1196343.96	<b>15664918.26</b>
III	Land development	92233403	0	0	<b>0</b>
IV	Plantation	8875010	20561711	16576716	<b>37138427</b>
V	Equipment for maintenance of environment protection	4200000	67043308	14067544	<b>81110852</b>
VI	Consultancy payments	1270048	7778000	<b>0</b>	<b>7778000</b>
VII	OB Reclamation / Subsidence management	115300	117857083	311824	<b>118168907</b>
VIII	Environment awareness / Environment education	0	59200	10000	<b>69200</b>
IX	Noise & Blasting vibration	212647	49738052	1192824.24	<b>50930876.24</b>
X	Others	0	245908	0	<b>245908</b>
	<b>Total</b>	<b>114874994</b>	<b>409075809</b>	<b>41603216.16</b>	<b>450679025.4</b>



## The Singareni Collieries Company Limited

Secretarial Department

Ref. No: CRP / CS / 054 / 889

Date: 23.11.2011.

GM (Environment)

The extract of Minute No.505:5.4 of Board of Directors meeting held on 11.11.2011 at Hyderabad is furnished below:

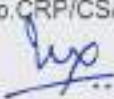
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**Sub: Environmental Policy of SCCL.**

- 5.4. The Board considered the note placed before it. After deliberation the Board accorded approval to the Environmental Policy of SCCL and its objectives as brought out in the note placed before it.

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Action taken/ status of implementation on each point of the above minute may be intimated to the undersigned at the earliest as per the guidelines issued by the C&MD vide circular No.CRP/CS/58/200 dt.22.3.2002 for apprising the same to the Board in the next meeting.

  
GM (C.A) &  
Company Secretary

## **CORPORATE ENVIRONMENTAL RESPONSIBILITY**

### **1. ENVIRONMENTAL POLICY OF SCCL**

The Environmental policy and its objectives have been approved by SCCL Board of Directors on 11.11.2011 and copy of Board minute is enclosed as **Annexure**.

#### **Policy:**

**“To be a role model in protection of environment for sustainable development, SCCL is committed to implement the best global practices in all its operations through prevention / mitigation of pollution, proper disposal / recycling of wastes and bringing awareness among all the stakeholders for continual improvement in environmental performance”**

#### **Objectives:**

- To take account of environment concerns in planning and decision-making.
- Compliance of conditions imposed in Environmental Clearance, Forestry Clearance, CFE, CFO and other statutory clearances issued by regulatory agencies.
- To prevent pollution of surrounding habitation by continuous monitoring and measurement of Environmental parameters.
- Identification of significant impacts and preparation of environment management systems for implementation at mines / units.
- To reclaim the mined out areas concurrent to mining operations and take suitable measures for conservation of adjacent forests, wildlife and bio-diversity.
- To reduce waste generation and promote recycling of materials, wherever possible.
- Optimum utilization of resources i.e. Electricity, Oil and Water.
- To take up developmental works in surrounding villages as a part of corporate social responsibility.
- To provide appropriate training and disseminate information to enable all the employees to accept individual responsibility for environment protection, implement best practices and work in partnership to create a culture of continual improvement.

## **Guidelines for implementation of environmental policy of SCCL**

For effective implementation of environmental policy and its objectives, necessary guidelines and targets will be framed from time to time. Initially, certain guidelines have been framed in different facets of environmental management for bringing uniformity in planning, execution and monitoring systems thereby ensuring environmentally sustainable coal mining operations).

In order to fulfil the objectives of Environmental Policy, the following guidelines have been framed in different facets of environmental management for bringing uniformity in planning, execution and monitoring systems thereby ensuring environmentally sustainable coal mining operations.

The Environmental Policy, objectives and guidelines were circulated to all the mines, departments and other units for implementation. Also, necessary arrangements were made for display of the same at the conspicuous places for bringing awareness among the employees of SCCL.

### **Guidelines for implementation of Environmental Policy**

<b>Sources / Activities</b>	<b>Recommended control measures</b>
<b>A. Planning of New / Expansion Projects</b>	
1. Planning	<ul style="list-style-type: none"><li>i. Due care shall be taken in addressing all the environmental issues while formulating a project proposal.</li><li>ii. It shall be ensured at the planning stage itself that forest lands, high-yielding agricultural lands, habitations, water bodies shall be avoided for location of dump sites.</li><li>iii. Conservation of ecologically sensitive areas, if any, located near the project area shall be given due consideration.</li><li>iv. EIA/EMP shall be prepared with proper environmental safeguards along with sufficient fund provision.</li></ul>
<b>B. Air Pollution Control</b>	
1. Drilling	<ul style="list-style-type: none"><li>i. Wet drilling mechanism shall be adopted.</li></ul>



<b>Sources / Activities</b>	<b>Recommended control measures</b>
2. Blasting	<p>v. Blasting in Opencast Mines shall be conducted during favourable weather conditions using NONELs with proper design of blasthole geometry &amp; optimum quantity of explosives.</p> <p>vi. Use of delay detonators shall be adopted in underground mines in order to reduce ground vibrations.</p> <p>vii. Blast site shall be wetted before and after blasting.</p>
3. HEMM	<p>i. Regular Maintenance of all Diesel operated HEMMs shall be done as per the manufacturer's schedule for effective control of exhaust emissions.</p>
4. Haul Roads	<p>i. All service roads shall be metalled and well maintained.</p> <p>ii. All haul roads and service roads shall be regularly sprayed with water.</p> <p>iii. Plantation shall be done alongside the haul and service roads.</p>
5. Over Burden	<p>i. Inoperative dumps shall be subjected to technical and biological reclamation.</p> <p>ii. Plantation shall be done over and around OB dumps to ensure stability of slopes and prevention of dust generation by wind action.</p>
6. Coal Handling	<p>i. Crusher house and belt conveyors shall be enclosed and mist spray arrangement installed at all receiving points, transfer points, Ground bunkers and loading points.</p> <p>ii. Plantation shall be done all around the Coal Handling Plant (CHP).</p>
7. Coal Transport	<p>i. Wherever feasible, transportation outside the ML area will be by rail / conveyor system</p>

<b>Sources / Activities</b>	<b>Recommended control measures</b>
	<ul style="list-style-type: none"> <li>ii. The width of transportation road shall be designed in such a way that no vehicle shall ply on the unpaved road.</li> <li>iii. Coal Transport trucks shall be optimally loaded and covered with tarpaulin for preventing spillage during transportation.</li> </ul>
<b>C. Water Pollution Control</b>	
1. Surface	<ul style="list-style-type: none"> <li>i. Garland drains shall be made around quarry and OB dumps to collect run off water and siltation points of sufficient size shall be provided for collection of silt.</li> <li>ii. OB dump run off to be desilted through settling tanks before discharge into natural streams. Contour drains to be constructed along the slopes of OB dumps.</li> <li>iii. Toe walls to be constructed around the OB dump with boulders collected from OB material.</li> <li>iv. A berm with dimensions of not less than two metres height and 2 metres width at the top shall be made in trapezium shape all along the edge of each deck to prevent erosion of dumps and gully formation.</li> <li>v. The terrace shall be kept free of obstructions (OB heaps), sloped in bye and maintained with uniform gradient for free flow of water in order to avoid accumulation of water leading to gully formation and dump slides.</li> <li>vi. The coal washery should adopt proven internationally accepted technology of continuous operating and with zero effluent discharge system.</li> </ul>
2. Mine Water	<ul style="list-style-type: none"> <li>i. Mine water shall be treated in filter beds for domestic consumption. Excess mine water shall be treated in settling ponds before discharging in to natural streams.</li> </ul>

<b>Sources / Activities</b>	<b>Recommended control measures</b>
3. Workshop and CHP	<ul style="list-style-type: none"> <li>i. Effluent coming out from workshops shall be treated in an Effluent Treatment Plant containing an oil / grease trap and sedimentation tank. The treated water is to be stored and reused in the workshop itself.</li> <li>ii. ETP shall be constructed for treating CHP effluents and adoption of closed water circuit in CHP shall be adopted thereby ensuring zero discharge.</li> </ul>
4. Domestic Effluent	<ul style="list-style-type: none"> <li>i. In isolated building or housing complexes septic tanks and soak pits to be provided.</li> <li>ii. In large townships, complete sewerage system including sewage treatment facilities shall be adopted.</li> <li>iii. Community and service building shall be provided with adequate sewage treatment facilities.</li> </ul>
5. Hazardous and Bio-medical wastes	<ul style="list-style-type: none"> <li>i. Hazardous wastes like used oil with barrels, waste oil with barrels, used transformer oil with barrels, scrapped batteries, iron scrap, copper cables, scrapped cap lamp accumulators, empty oil and grease drums shall be handled and disposed off in accordance with the procedure laid down in HWM Rules.</li> <li>ii. Used oil, spent oil, batteries and copper cables shall be disposed off to the recyclers having valid registration from CPCB/APPCB for recycling or recovery, whereas the empty oil and grease barrels shall be detoxified prior to their disposal to outside agencies.</li> <li>iii. Bio-medical wastes shall be handled and disposed off as per the latest guidelines issued by MoEF.</li> </ul>
<b>D. Noise Pollution Control</b>	
1. Drilling	<ul style="list-style-type: none"> <li>i. Controlled blasting methods with proper spacing, burden and stemming shall be adopted to get optimum results.</li> </ul>

<b>Sources / Activities</b>	<b>Recommended control measures</b>
	ii. Blast holes should be judiciously charged to control noise and blast vibrations
2. HEMM	i. Providing of sound proof cabins for the workers deployed on machines producing higher levels of noise like dozers, shovels, dumpers, drills and feeder breakers etc. ii. The engine exhausts of HEMM to be fitted with mufflers. iii. HEMM to be properly maintained and operators to be provided with ear mufflers / ear plug. iv. Reducing the exposure time of workers to the higher noise levels shall be practiced.
3. CHP	i. Belt drive or roller drive systems shall be used instead of gear train system which results in considerable noise reduction.
4. Exhaust Fan in UG mines	i. The main mechanical ventilator shall be installed in acoustically designed enclosed chambers with evasee. ii. Thick green belt shall be developed around the fan house for attenuation of noise.
<b>E. Energy / Water Conservation Measures</b>	
1. Electricity	i. CFLs and energy efficient appliances shall be used at mines, allied units and colonies. ii. Efforts shall be made for utilization of renewal sources of energy like solar and wind power.
2. Oil	i. Periodical maintenance of vehicles including fine tuning of engines shall be done to improve their fuel efficiency. ii. Leakage and spillage of oils during transport and usage shall be avoided.
3. Water	i. Wastage of water resulting from leakages through

Sources / Activities	Recommended control measures
	<p>distribution pipelines and overflow from overhead tanks shall be arrested.</p> <p>ii. Summer storage tanks shall be constructed in all the mining areas for rain water harvesting and augmentation of ground water recharge.</p>
F. Land Management	
1. Top soil	<p>i. Top soil shall be stacked at earmarked place and shall be used only in reclamation of OB dumps.</p> <p>ii. Top soil shall invariably be removed from the site allocated for external dumping of OB material, to conserve precious natural resource and ensure better stability of dumps.</p>
2. Reclamation	<p>i. Reclamation of mined out areas including external OB dumps and back filled areas shall be taken up concurrent with progress of mining operations as per the EMP.</p> <p>ii. Native species shall be selected for dump plantation in order to achieve better survival rate.</p> <p>iii. The voids left over after cessation of mining operations shall be converted in to water bodies.</p>
3. Subsidence Management	<p>i. The cracks / pot holes formed on surface as a result of subsidence due to UG mining shall be filled with OB material and compacted.</p> <p>ii. Garland drains shall be provided around the subsidence areas to avoid inrush of water in to Underground workings.</p>
4. Green Belt Development	<p>i. Extensive plantation shall be taken up in colonies, vacant lands, degraded forest lands and surface area of UG mines.</p>

<b>Sources / Activities</b>	<b>Recommended control measures</b>
	<ul style="list-style-type: none"> <li>ii. Gap plantation shall be taken up wherever the survival rate is poor.</li> <li>iii. Avenue plantation shall be taken up alongside the roads.</li> </ul>
<b>G. Environmental Monitoring</b>	
1. Environmental Monitoring for pollution mitigation	i. Monitoring of ambient air quality, ground & surface water quality, effluent discharge quality, noise & blast vibrations, phreatic surface levels, subsidence, HEMM exhaust emissions shall be carried out as per the stipulated norms and corrective measures shall be taken for mitigation of pollution.
2. Satellite surveillance	i. Satellite surveillance of all opencast mines shall be carried out once in three years for change detection analysis in land use / land cover in core and buffer zone of the project.
<b>H. Environmental Awareness</b>	
1. Environmental Awareness	<ul style="list-style-type: none"> <li>i. Environmental awareness programmes shall be conducted in all mining areas to bring awareness among the employees regarding the environmental policy, its objectives and measures to be taken to safeguard the environment.</li> <li>ii. Awareness programmes shall be conducted on energy, oil and water conservation.</li> <li>iii. Awareness shall be created in the employees and general public on the ill-effects of plastics usage and educate them to use alternatives.</li> </ul>

## **2. STANDARD OPERATING PROCEDURE TO BRING IN TO FOCUS DEVIATIONS/ VIOLATIONS OF ENVIRONMENTAL OR FOREST NORMS/CONDITIONS**

### **At Project Level**

An Environment Management Committee (EMC) is constituted at the project level consisting of following members to monitor the implementation of EMP and other environmental protection measures.

- i. Project Officer
- ii. Staff Officer to General Manager
- iii. Area Environmental Officer
- iv. Area Forestry Officer
- v. Area Civil Engineer
- vi. Regional Hydro-geologist
- vii. Area Survey Officer

**Functions of Project level EMC:**

- Monitoring of Environmental safeguards
- Compliance of conditions stipulated in Environmental Clearance, Forest Clearance (if Forestland involved in the project), Wildlife Clearance (if applicable), Consent for Establishment and Operation issued under Air (Prevention and Control of Pollution) Act 1981 and Water (prevention and Control of Pollution) Act 1974, Hazardous Waste (Management, Handling & Transboundary Movement) Rules 2008 , Ground water Clearance, No Objections Certificates (NoCs) from any other department, etc.
- Review of the compliance of above conditions during periodical review meetings
- Reporting of non-compliances and action plan for rectification to the Area General Manger and General Manager (Environment).

**Corporate level**

General Manager (Environment) and his team of officers from Corporate Environment Department will periodically inspect the projects for monitoring the implementation of EMP, EC conditions, CFE & CFO conditions and environmental status of the project surroundings and give necessary guidelines to the project authorities in case of any deviation in the compliance of clearance conditions. Corporate Environment Department will also appraise the higher authorities in case of major violation/ deviations in compliance of environmental norms/ conditions.



### **3. HIERARCHICAL SYSTEM OF THE COMPANY TO DEAL WITH ENVIRONMENTAL ISSUES AND FOR ENSURING COMPLIANCE WITH EC CONDITIONS**

Project Officer /Agent, in-charge of the Opencast / Underground Mine is responsible for implementation of the approved EMP and various conditions of EC, FC and CFO. Area Environmental Officer will assist the Project Officer /Agent in ensuring the compliance of conditions. Area General Manager is responsible for compliance of norms in all the mines falling under his jurisdiction.

General Manager (Environment) will monitor the compliance of environmental norms in all the areas of SCCL. Chief General Manager (Corporate Planning & Projects) will be reviewing the environmental issues for ensuring compliance of norms/conditions. Director (Planning & Projects) and Director (Operations), who are the members of the SCCL Board of Directors, will review the overall compliance of statutory norms in the organization.

### **4. SYSTEM OF REPORTING NON-COMPLIANCES/VIOLATIONS OF ENVIRONMENTAL NORMS TO THE BOARD OF DIRECTORS AND/OR SHAREHOLDERS OR STAKEHOLDERS**

Environmental Management Committee will monitor the implementation of environmental norms/conditions and reports any deviations to the concerned Project Officer. The Project Officer will take suitable corrective measures with the guidance of Area Environmental Officer. The non-compliances, if any, which require the intervention of higher authorities will be brought to the notice of Area General Manager. The Area General Managers will inform the deviations / non-compliances to Corporate Environment Department and concerned Functional Director.

Corporate Environment Department is headed by General Manager (Environment) who works directly under GM (CP&P) who in turn reports to Director (Planning & Projects). Regular review meetings will be conducted by Director (Planning & Projects) for reviewing the compliance of EC/FC/CFO conditions. In addition to the above, General Manager (Environment) will periodically appraise non-compliance of EC conditions to GM (CP&P). GM (CP&P) will appraise these issues to Director (Planning & Projects) and Director (Operations), the members of the SCCL Board of

Directors, who in turn will appraise to Chairman & Managing Director of the company.

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**THE SINGARENI COLLIERIES COMPANY LIMITED**  
(A GOVERNMENT COMPANY)  
**Environment Department**  
**Srirampur Area**

Ref: SRP/ENV/D-404A/2023/ 377

Date: 20.12.2023

To

**The Director,**

Ministry of Environment, Forests & Climate Change (MoEF &CC),

Integrated Regional Office, Hyderabad.

3<sup>rd</sup> Floor, Aranya Bhawan, Opp, RBI, Saifabad,

Hyderabad - 500 004.

Respected Sir,

**Sub: Submission of reports on Land use Land cover study of core and buffer zones of mines Srirampur Area, SCCL - Reg.**

\*\*\*\*\*

With reference to the subject cited above, herewith enclosing the reports for the study period-2022, on land use land cover study of Core & Buffer zones of Srirampur Area mines namely: RK-5, RK-6, RK-7, SRP-1, SRP-3&3A Inclines, SRPOC-II Expansion and Indaram OCP at Srirampur Area, Mancherial District, Telangana state, pertaining to the Singareni Collieries Company Limited is being furnished for compliance of the EC conditions.

This is for your kind perusal.

Yours Faithfully,

  
General Manager,  
Srirampur Area.  
*General Manager*  
SRIRAMPUR

Encl: as above



**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Impact Assessment Division)**

To,

The Director (Planning & Projects)  
The Singareni Collieries Company Limited  
Kothagudem P.O -507101 Bhadradi Kothagudem District,,Bhadradi  
Kothagudem,Telangana-507101

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/TG/CMIN/187387/2017 dated 02 Nov 2021. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	<b>EC23A042TG142752</b>
2. File No.	J-11015/212/2007-IA.II(M)
3. Project Type	Expansion
4. Category	A
5. Project/Activity including Schedule No.	1(a) Mining of minerals
6. Name of Project	Srirampur Opencast-II Expansion Project
7. Name of Company/Organization	The Singareni Collieries Company Limited
8. Location of Project	Telangana
9. TOR Date	02 Feb 2018

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 23/01/2023

**(e-signed)**  
**Lalit Bokolia**  
**Scientist F**  
**IA - (Coal Mining sector)**

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*



**File No. IA-J-11015/212/2007-IA-II (M)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Impact Assessment Division)**

\*\*\*\*\*

Indira Paryavaran Bhawan,  
Jorhagh Road, N Delhi - 3  
Email: [lk.bokolia@nic.in](mailto:lk.bokolia@nic.in) Tel: 011-20819417

**Dated: 23rd January, 2023**

To,

The Director (Planning & Projects)  
M/s The Singareni Collieries Company Ltd (SCCL),  
Kothagudem Collieries (PO)  
**Bhadrachari- 507101 (Telangana)**  
Email: [gm\\_env@scclmines.com](mailto:gm_env@scclmines.com) [env\\_crp@scclmines.com](mailto:env_crp@scclmines.com)

**Sub: Expansion of Srirampur Opencast Coal Mine II from 2.50 to 3.50 MTPA with increase in Mine Lease Area from 707.63 to 1604.11 ha by M/s The Singareni Collieries Company Limited located at Village Ramaraopet, Mandal & District Mancherial (Telangana) – For Environmental Clearance - reg.**

Sir,

This has reference to your online proposal No. IA/TG/CMIN/187387/2017 dated 2<sup>nd</sup> November, 2021 for grant of Environmental Clearance to the above project.

2. The Ministry of Environment, Forest and Climate Change has considered the application. It is noted that the proposal is for grant of Environmental Clearance to the project Expansion of Srirampur Opencast Coal Mine II from 2.50 to 3.50 MTPA with increase in MLA from 707.63 to 1604.11 ha by M/s The Singareni Collieries Company Limited located at Village Ramaraopet, Mandal & District Mancherial (Telangana)

The project/activity is covered under category 'A' of item 1(a) 'Mining of Minerals' the Schedule to the EIA Notification, 2006.

3. The proposal was considered by the sectoral Expert Appraisal Committee (EAC) in its 22<sup>nd</sup> EAC Meeting on 12<sup>th</sup> November, 2021 and 38<sup>th</sup> EAC Meeting during 14-15 December, 2022 through Video Conferencing. The details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meetings are given as under:

- i) The project area is covered under Survey of India Topo Sheet No. 56N/5, 56N/6, 56N/9 & 56N/10 and is bounded by the geographical coordinates ranging from Latitudes 18048'02" and 18051'18" and longitudes 79028'46" and 79031'44".
- ii) Coal will be supplied to the Singareni Thermal Power Plant (STPP) situated at Jaipur,

Mancherial District, and NTPC, Ramagundam of Telangana State and also to cement, Textiles, Paper, Railways and other Industries

- ii) Project does not fall in the Critically Polluted Area (CPA), where the MoEF&CC's vide its OM dated 13th January, 2010 has imposed moratorium on grant of environment clearance.
- iv) Employment generation, Permanent / Contractual employment to 437/750 persons will be provided from the project.
- v) The project is reported to be beneficial in terms of socio-economic and improving living standards.
- vi) Earlier, the environment clearances to the project was obtained under EIA Notification, 2006 vide Ministry's letter No. J-11015/212/2007-IA. II(M) dated 11th July, 2008 for 2.50 MTPA in mine lease area of 707.63 ha.
- vii) Terms of Reference granted on 02.02.2018 vide File No. J-11015/212/2017-IA. II(M).
- viii) Total mining lease area is 1604.11 ha. Mining Plan (Including Mine Closure Plan) has been approved by the Standing Committee of MoC, Govt on 21.08.2017.
- ix) The land usage pattern of the project is as follows:

**Pre-mining land use details**

Land use	Within ML Area	Outside ML Area	Total
Forest Land	276.38	0.00	276.38
Agriculture	1161.05	0.00	1161.05
Grazing	60.23	0.00	60.23
Barren	41.91	0.00	41.91
Built up area	39.15	0.00	39.15
Water bodies	20.15	0.00	20.15
Roads	5.24	0.00	5.24
Total	1604.11	0.00	1604.11

**Post-Mining: Area in Ha**

Sl. No.	Type	Total Area	Agriculture	Plantation	Water Body	Public/ Company Use
1	Excavation/Quarry Area:					
	(a) Backfilled Area	286.68		286.68		
	(b) Excavated Void	360.74			360.74	
		647.42		286.68	360.74	
2	Top Soil Dump including BC Soil storage dump yard	25.63	6.26	19.37		
3	External Dump	518.72		518.72		
4	Safety Zone /Rationalisation area:					
	(a) Safe barrier & drain	94.68	5.92			64.66

	along the Quarry					
	(i) Roads					9.53
	(ii) Garland drains				9.57	
	(iii) Settling ponds				5.00	
	(b) Safe barrier & drain along the Ext dump :	183.00	159.16			
	(i) Roads					9.35
	(ii) Garland drains				10.49	
	(iii) Settling ponds				4.00	
		277.68	165.08		29.06	83.54
5	Road & Infrastructure area (Service Buildings and CHP)	13.23	13.23			
7	Embankment (Protection Bund along Godavari)	15.99		15.99		
8	Green Belt	52.00	52.00			
9	Others (Railway line)	53.44				53.44
<b>Grand Total</b>		<b>1604.11</b>	<b>236.57</b>	<b>840.76</b>	<b>389.80</b>	<b>136.98</b>

- x) Total geological reserves reported in the mine lease area are 136.59 MT with 86.41 MT extractable reserves. Percent of extraction is 63.26%. Balance extractable reserves are 61.61 MT as on 01st April, 2021.
- xi) 6 seams with thickness ranging from 0.18 m – 8.44 m are workable. Grade of coal is G-9, stripping ratio 9.98 Cum of OB per 1 tonne of coal, while gradient is 1 in 5.8.
- xii) Method of mining operations envisages by Opencast method.
- xiii) Life of mine is 17 years from 2021-22.
- xiv) The project has one external OB dumps in an area of 518.72 ha with 90 m height and 234.59 Mm<sup>3</sup> of OB (Hard OB 233.36 Mm<sup>3</sup> and Topsoil 1.23 Mm<sup>3</sup>).
- xv) The project has one Internal OB dump in total area of 286.68 ha with 505.12 Mm<sup>3</sup> (503.67 Mm<sup>3</sup> Hard OB & 1.45 Mm<sup>3</sup> Top Soil) of OB is envisaged in the project.
- xvi) Total quarry area is 647.42 ha out of which backfilling will be done in 286.68 ha while final mine void will be created in an area of 360.74 ha with a depth of 350 m. Backfilled quarry area of 286.68 ha shall be reclaimed with plantation. Final mine voids will be converted into water body
- xvii) Transportation of coal has been proposed as from In pit to surface by Belt Conveyors, from surface to siding/loading by Belt Conveyors and from siding/loading to end users by rail.
- xviii) Reclamation Plan in an area of 1077.33 ha, comprising of 518.72 ha of external dump, 286.68 ha of internal dump and 271.93 ha of area has also been proposed for green belt development and about 236.57 ha of land will be converted for Agriculture use.
- xix) 276.38 ha of forest land has been reported to be involved in the project. Approval (Stage-II) under the Forest (Conservation) Act, 1980 for diversion of 113.93 ha of forest land for non-



forestry purposes has been obtained vide MoEF&CC F. No.8-56/91-FC/1777/F, dt. 29th May, 2001 and F.No. 8-27/2007-FC, dt.16th June, 2009. For the balance Forest land of 162.45 ha, stage-I approval is obtained vide F.No.8-06/2019 FC, Dt.12th Mar, 2021.

- xx) No National Parks, Wildlife Sanctuaries and Eco-Sensitive Zones have been reported with 10 km boundary of the project.
- xxi) Wildlife conservation plan for Scheduled-I species has been prepared with and budgetary provision of 1.20 Crores and submitted to PCCF&CWW vide Lr. No.CRP/ ENV/ A/ 534/ 399, Dt. 14.06.2021 for approval
- xxii) The ground water level has been reported to be varying between 2.16 m to 13.98 m during pre-monsoon and between 0.95 m to 1.15 m during post-monsoon. Total water requirement for the project is 1508 KTD.
- xxiii) Application for obtaining the approval of central ground water authority submitted and Ground Water Clearance obtained vide Lr. No. 236/SCCL/2017, 07th September, 2018. SRP OC-II Expansion was obtained from State Ground Water Department vide Lr.No.236/SCCL/ 2017, dated 7th September, 2018 and was renewed on 26th September 2022 with a validity period of two years.
- xxiv) Public hearing for the project of 3.50 MTPA a capacity in an area of 1604.11 ha was conducted on 19th September, 2018 at Pragathi Stadium, Srirampur colony under chairmanship of Joint Collector & Additional District Magistrate of Mancherial District. Major issues raised in the public hearing include the employment to local youth, compensations, infrastructure development, plantation, medical facility, water etc.
- xxv) Consent to Operate for the existing capacity was obtained from the State PCB on 25th February, 2021 and is valid till 31st March, 2026.
- xxvi) No River/nalla is flowing within the boundary of lease. No diversion of nallah is involved in the project.
- xxvii) Regular monitoring of ambient air quality is being carried out on fortnightly basis. The documented report is submitted to State Pollution Control Board and also to MoEF & CC along with half yearly EC compliance report. In general, the results of ambient air quality monitoring data were found within prescribed limits except few aberrations which can be attributed the specific local conditions during the day of sampling.
- xxviii) No court cases, violation cases are pending against the project of the PP
- xxix) The Project does not involve violation of the EIA Notification, 2006 and amendment issued there under
- xxx) The coal production from the mine was started from the year 2009-10 onwards. No excess production of coal from the sanctioned capacity has been realized since the commencement of mining operations.

4. The Expert Appraisal Committee in its 38<sup>th</sup> meeting held during 14 - 15 December, 2022 has recommended the proposal for grant of Environment Clearance. Based on the recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the proposal of **Expansion of Srirampur Opencast Coal Mine II from 2.50 to 3.50 MTPA with increase in Mine Lease Area from 707.63 to 1604.11 ha by M/s The Singareni Collieries Company Limited located at Village Ramaraopet,**

**Mandal & District Mancheril (Telangana), under the provisions of Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the following terms & conditions / specific conditions: -**

- i) PP shall obtain CTE/CTO for capacity enhancement upto 3.5 MTPA.
- ii) PP shall not use any forest land for any infrastructure and overburden dumping, even if the said forest land is coal bearing area.
- iii) The Project proponent shall take all the effective measures in order to protect from the flow of any type of mine water into the Godavari river. The PP shall make a continuous monitoring mechanism by collecting the sample from near boundary of MIA and Godavari river. The data should be submitted to IRO in every six month.
- iv) The Project proponent shall make a Garland drain at sufficient distance and at the sufficient height from the bank of Godavari river and the same water should be collected first to pass through ETP for reuse purpose or for discharge into the river.
- v) The Project proponent will not be allowed to recover the sand without prior permission.
- vi) The project proponent shall install the water sprinklers system along the dedicated coal transportation route near to village as well as in the mining site area with consultation of Gram Panchayat.
- vii) The Project proponent shall implement the dust suppression system at the transportation site and in the other parts of the mining lease to arrest the fugitive dust emission.
- viii) The Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
- ix) PP shall implement 20% of mining machineries & trucks/dumpers operating with LNG/CNG/Electrical in order to curb the pollution due to mining activity
- x) PP shall use only surface miner for mining operation/coal extraction instead of shovel dumper method
- xi) The status of mine closure activities must be included in every six months compliance report Minutes of 38 th EAC (Coal Mining Sector) held on 14-15 December, 2022 Page 7 of 83 submitted to the state pollution control board and IRO.
- xii) PP shall not use any village road for coal transportation and shall only transport through conveyor system with silo loading system at railway siding.
- xiii) PP to install solar lights along the road used for transportation of minerals to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year.
- xiv) PP to provide bio toilets to the villages located within the study areas within 1 year from the grant of this EC.
- xv) Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
- xvi) PP to fulfill all the commitment made in the minutes of public hearing to address the issues raised therein in a time bound manner and a progressive report to be furnished to IRO in every six monthly as compliance report.
- xvii) The illumination and sound at night at project sites disturb the villages in respect of both

human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.

- xviii) PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extant rules or norms.
- xix) PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site itself which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority
- xx) Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.

**4.1** The grant of environmental clearance is further subject to compliance of the Standard EC conditions applicable coal mining as under

**(a) Statutory compliance**

- (i) The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- (ii) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- (iii) The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).

- (iv) The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- (v) The project proponent shall obtain the necessary permission from the Central Ground Water Authority.
- (vi) Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
- (b) **Air quality monitoring and preservation**
  - (i) Continuous ambient air quality monitoring stations as prescribed in the statute be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely  $PM_{10}$ ,  $PM_{2.5}$ ,  $SO_2$  and  $NO_x$ . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.
  - (ii) The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25<sup>th</sup> September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
  - (iii) Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun, etc shall be carried out in critical areas prone to air pollution (with higher values of  $PM_{10}/PM_{2.5}$ ) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
  - (iv) The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.
  - (v) Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.



- (vi) Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
- (vii) Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.
- (c) **Water quality monitoring and preservation**
  - (i) The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25<sup>th</sup> September, 2000 and as amended from time to time by the Central Pollution Control Board.
  - (ii) The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.II (M) dated 27<sup>th</sup> May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
  - (iii) Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
  - (iv) Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
  - (v) Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.
  - (vi) Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression and green belt development and other industrial use. Dimension of the

retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.

- (vii) Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).
  - (viii) Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Adequate ETP /STP needs to be provided.
  - (ix) The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.
  - (x) The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc, shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/Govt Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.
  - (xi) The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
- (d) Noise and Vibration monitoring and prevention**
- (i) Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
  - (ii) Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS. The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of

the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

**(e) Mining Plan**

- (i) Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- (ii) Mining shall be carried out as per the approved mining plan(including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
- (iii) No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.
- (iv) Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

**(f) Land reclamation**

- (i) Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
- (ii) The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27<sup>th</sup> August, 2009 and subsequent amendments.
- (iii) The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/"post mining" land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- (iv) Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any,



along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.

- (v) Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.
- (vi) The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.

**(g) Green Belt**

- (i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.
- (ii) Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/ coal transportation roads.

**(h) Public hearing and Human health issues**

- (i) Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six-monthly basis.
- (ii) The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.

- (iii) Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
- (iv) Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
- (v) The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29<sup>th</sup> October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

**(i) Corporate Environment Responsibility**

- (i) The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
- (ii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- (iii) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- (iv) Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

**(j) Miscellaneous**

- (i) The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which

one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

- (ii) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- (iii) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- (iv) The project proponent shall monitor the criteria pollutants level namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- (v) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- (vi) The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29<sup>th</sup> October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.
- (vii) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- (viii) The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- (ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- (x) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- (xi) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.

- (xii) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
  - (xiii) The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
  - (xiv) The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
  - (xv) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
  - (xvi) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
5. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.
  6. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
  7. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
  8. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2<sup>nd</sup> August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of 'Common Cause Vs Union of India & others.
  9. The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.

10. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.
11. All other conditions stipulated in Environment Clearance letter vide F No. J-11015/212/2007-IA.II (M) dated 11<sup>th</sup> July, 2008 shall be complied with.

This issues with the approval of the competent Authority

  
(Lalit Bokolia)  
Director

**Copy to: -**

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, Hyderabad, 3rd Floor, Room No. 309, Aranya Bhawan, Opp. RBI, Safiabab - 500004, Hyderabad, Telangana
3. The Secretary, Department of Environment & Forests, Government of Telangana
4. The Chairman, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
5. The Chairman, Telangana State Pollution Control Board, Paryavaran Bhawan, A-3 Industrial Estate, Sanatnagar, Hyderabad - 38
6. The District Collector, Mancherial, Government of Telangana
7. Monitoring File/Guard File/Record File.

  
(Lalit Bokolia)  
Director



**THE SINGARENI COLLIERIES COMPANY LIMITED**  
(A GOVERNMENT COMPANY)  
**Environment Department – SRP Area**  
PO:Srirampur Colony-504 303, Dist. Mancheril, Telangana State

Registered Office  
Kothagudem Collieries  
Bhadradi Kothagudem Dist, Telangana State

Phone No: 08736 238817  
Fax No : 08736 238222  
email:gm\_srp@scclmines.com

Ref.No: SRP/ENV/EC/2023/ 16

Date: 24.01.2023

To,

1. Member Secretary, T.S.Pollution Control Board, Board Office.A-3, Industrial Estate, Paryavarana Bhavan, Sanathnagar, Hyderabad-500018.
2. The Regional Office (SEZ),Gol,MoEF & CC 1<sup>st</sup> & 2<sup>nd</sup> Floor,Handloom Export,Promotional Council, 4th cathedral, Garden Road, Nungambakkam, CHENNAI-600034.
3. The Director, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Hyderabad 3<sup>rd</sup> Floor, Aranya Bhavan, Opp. RBI,Saifabad,Hyderabad-500004.
4. The Collector& District Magistrate, Mancheril District.
5. The Environmental Engineer, T.S. Pollution Control Board, Regional Office, Nizamabad, Door No. 6-2-166/A, Subhash Nagar, Nizamabad-503002, Telangana State.
6. Municipal Commissioner, Municipality Office, Naspur, Mancheril Dist.
7. The Chief Executive Officer, Zilla Parishad Office, Mancheril District.
8. The General Manager, District Industries Centre, Mancheril District
9. The Tahsildar, Jaipur (M), Mancheril District.
10. Panchayath secretary, Gramapanchayath Office Ramaraopet ,Jaipur (M) Mancheril Dist.
11. Project Officer, SRP OC-II Project.

Sir,

Sub: Environment Clearance for **Srirampur Opencast -II Expansion Project** with a Coal production capacity of 3.50 MTPA, in the project area of 1604.11 Ha. Located near Ramaraopet Village, Jaipur Mandal, Mancheril District of Telangana State – Reg

Ref: EC Identification No.EC23A042TG142752 and  
F.No. J-11015/212/2007-IA.II(M), Dated: 23.01.2023.

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Kind attention is invited to the subject under reference.

With reference to the subject cited, it is to informed that, The Ministry of Environment, Forest and Climate Change has accorded Environmental Clearance (EC) to the project Expansion of **Srirampur Opencast Coal Mine II from 2.50 to 3.50 MTPA with increase in MLA from 707.63 to 1604.11 Ha.** Located near Ramaraopet Village, Jaipur Mandal, Mancheril District of Telangana State, vide letter cited under reference (copy enclosed).

As per **Condition No.4.1 (j) (ii)** "The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt"

Hence, it is requested to kindly advise the concerned to display the same.

  
**General Manager**  
Srirampur Area  
*General Manager*  
SRIRAMPUR

Encl: EC Copy



### ACKNOWLEDGEMENT

Received a copy of the Environmental Clearance letter bearing F.No. J-11015/212/2007-IA.II(M), dated 23.01.2023 pertaining to **Srirampur Opencast-II Expansion Project** of M/s. Singareni Collieries Company Limited issued by Ministry of Environment & Forests and Climate Change.





S.No.	Name of the department	Signature & Stamp
1	O/o. Member Secretary, T.S.Pollution Control Board, Board Office.A-3, Industrial Estate, Paryavarana Bhavan, Sanathnagar, Hyderabad-500018.	 <p> RN167204383IN IVR:8278167204383  RL SRIRAMPUR COLONY S.O (504303)  Counter No:1,27/01/2023,13:17  To:MEMBER SECRET,T S POLLUTION CO  PIN:500018, Sanathnagar I E S.O  From:GENERAL MANAGER,SCCL  Wt:60gms  Amt:35.00(Cash) </p>
2	O/o. The Regional Office (SEZ), GoI,MoEF & CC 1 <sup>st</sup> & 2 <sup>nd</sup> Floor,Handloom Export, Promotional Council, 34 cathedral, Garden Road, Nungambakkam, CHENNAI-600034.	 <p> RN167204670IN IVR:8278167204670  RL SRIRAMPUR COLONY S.O (504303)  Counter No:1,27/01/2023,13:17  To:THE REGIONAL ,GOI, MOEF &amp; CC  PIN:600034, Nungambakkam RD  From:GENERAL MANAGER,SCCL  Wt:50gms  Amt:35.00(Cash) </p>
3	O/o. The Director, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Hyderabad 3 <sup>rd</sup> Floor, Aranya Bhavan, Opp. RBI,Saifabad, Hyderabad-500004.	 <p> RN167204683IN IVR:8278167204683  RL SRIRAMPUR COLONY S.O (504303)  Counter No:1,27/01/2023,13:17  To:THE DIRECTOR,MINISTRY OF ENV  PIN:500004, Saifabad S.O  From:GENERAL MANAGER,SCCL  Wt:60gms  Amt:35.00(Cash)  Track on <a href="http://www.indiaapost.gov.in">www.indiaapost.gov.in</a> </p>



4	O/o.The Collector & District Magistrate,Mancherial District.	<p><i>Sudhakar</i> 25/01/23</p> <p>Office of the Collectorate, Mancherial.</p>
5	O/o.The Environmental Engineer, T.S. Pollution Control Board, Regional Office, Nizamabad, Door No. 6-2-166/A, Subhash Nagar, Nizamabad-503002, Telangana State.	<p>RNLS720403741M UN:8278167354374 RL S23RAMPUR COLONY S.O (504-503) Counter No:1, 27/01/2023, 12:17 To:THE ENVIRONMENT S POLLUTION PIN:503002, Subhashnagar S.O From:GENERAL MANAGER,SOCL Wt:160gms Nett:35.00(Each)</p> 
6	O/o. Muncipal Commissioner, Municipality Office, Naspur, Mancherial Dist.	
7	O/o.The Chief Executive Officer, Zilla Parishad Office, Mancherial District.	

⑦ Chief Executive Officers ZPP, Mancher.



8	O/o. The General Manager, District Industries Centre, Mancherial District.	
9	O/o. The Tahsildar, Jaipur (M), Mancherial District.	 OFFICE OF THE TAHSILDAR Jaipur, Dist: Mancherial
10	O/o. Panchayat secretary, Gramapanchayat Office Ramaraopet, Jaipur (M) Mancherial Dist.	N.  Sarpanch G.P. Ramaraopet Mdt: Jaipur.
11	O/o. Project Officer, SRP OCP-II Project.	 O/o Project Officer, SRP 



THE SINGARENI COLLIERIES COMPANY LIMITED

(A Government Company)  
Registered Office

Kothagudem Collieries (P.O)-507 101, Bhadradi Kothagudem Dist. Telangana State  
CIN: U10102TG1920SGC000571

**SRIRAMPUR OPENCAST PROJECT (Mine code: 10932)**

**SRIRAMPUR AREA**

PO, Srirampur Colony-504 303, Dist. Mancherial, Telangana State

Ref.No: SRP/OCP/PO/G.16/23/ 3232

Date: 20.09.2023

To,

The Director,

Ministry of Environment, Forests & Climate Change (MoEF & CC),

Integrated Regional Office, Hyderabad.

3<sup>rd</sup> Floor, Aranya Bhavan, Opp, RBI, Sarfabad,

Hyderabad -500004.

**Sub:** Information to the Regional Officer of the MOEFCC regarding commencement of mining Operations of Srirampur Opencast-II Expansion Project – Reg

- Ref:**
- 1) EC Identification No EC23A042TG142752 and
  - 2) File No. J-11015/212/2007-IA.II(M), dated 23.01.2023.
  - 3) Consent Oder For Expansion No:02/TSPCB/CFE/MCRL/RO-NZB/HO/2023, Dt: 20.05.2023.
  - 4) Consent Order No: 230524408222, Dt:14.07.2023.

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With reference to the subject cited, it is to informed that MoEF&CC vide Lr ref: EC Identification No.EC23A042TG142752 has accorded Environmental Clearance (EC) for **Srirampur Opencast-II Expansion Project** located near Ramaraopet Village, Jaipur Mandal, Mancherial District of Telangana State.

As per the **EC Condition No.4.1 (j) (Viii)** "The Project authorities shall inform to the Regional Officer of the MOEFCC regarding commencement of mining operations.

Vide cited above Lr ref.3&4, Consent Order for Establishment and Operation was issued.

As per the above, this is to inform you that at **Srirampur Opencast-II Expansion Project** with a capacity of 3.50 MTPA has commenced mining operation from 14.07.2023.

Encl: 1) Copy of EC.  
2) Copy of CFE & CFO



Project Officer,  
Srirampur OC-II Expansion Project,  
Srirampur Area.

**Project Officer**  
**SRP-OCP**

पॉलिसी अनुसूची/ Policy Schedule-Public Liability Insurance Act	
पॉलिसी संख्या / <b>Policy Number:</b> <b>550200492410000034</b>	व्यवसाय स्रोत/ Business Source: 550200
जारीकर्ता कार्यालय/ <b>Issuing Office</b> कार्यालय कोड/ Office Code: 550200 कार्यालय पता/ Office Address: HYDERABAD BUSINESS OFFICE II CSR Plaza,D No. 6-3-347/9/4,,2nd Floor,Dwarakapuri Colony,Punjagutta, - 500082. राज्य कोड/ <b>State Code:</b> 36 , Telangana जीएसटीएन/ <b>GSTIN:</b> 36AAACN9967E6ZZ संपर्क संख्या/ <b>Contact Number:</b> 40 23401398 मोबाइल संख्या / <b>Mobile Number:</b> 0	विक्रय चैनल विवरण/ <b>Sales Channel Details</b> कोड/ Code: 550200 नाम/ Name: Hyderabad Division II संपर्क संख्या/ <b>Contact Number:</b> सह दलाल कोड / Co Broker Code:  <b>Customer Care Toll Free Number:</b> <b>1800 345 0330</b> <b>email:customer.support@nic.co.in</b>




ग्राहक का नाम/Customer Name: MS THE SINGARENI COLLIERIES CO LTD	ग्राहक आईडी/ Customer ID: 9510115064	पैन/ PAN: AAAC8873F
पता/ Address: CORPORATE FINANCE & ACCOUNTS DEPARTMENT, PO. KOTHAGUDEM COLLIERIES, BHADRACHALAM ROAD RLY STN(S C RLY), BHADRADRI KOTHAGUDEM DISTRICT, TELANGANA, शहर/City: KOTHAGUDEM, जिला/District: KHAMMAM, राज्य/State: TELANGANA, पिन/ PIN: 507101. सेल/Cell: 1111111111	फोन/ Phone: 1111111111	ई-मेल/ E-Mail: fad_crp@scclmines.com

पॉलिसी प्रभावी समय घंटे को <b>Policy Effective from 00:00 hours, on 30/04/2024</b> की मध्य रात्रि तक प्रभावी/to midnight of 29/04/2025 .			
प्रीमियम /Premium	₹ 65,610.42	कवर नोट संख्या तथा तिथि/ Cover Note Number and Date	NA
सीजीएसटी/CGST	₹ 5,905.00	प्रस्ताव संख्या और तिथि /Proposal Number and Date	8800240506182484 दिनांक/Dt. 06/05/2024
एसजीएसटी/यूटीजीएसटी SGST/UTGST	₹ 5,905.00		
आईजीएसटी/GST	₹ 0.00		
कम:जीएसटी टीडीएस / Less:GST_TDS	₹ 0.00		
वसूली योग्य स्टाम्प शुल्क / Recoverable Stamp Duty	₹ 0.00	रसीद संख्या और तिथि/ Receipt Number and Date	550200812410000167 दिनांक/Dt. 23/04/2024
कुल राशि/ <b>Total Amount*</b>	₹ 1,43,035.00	पिछली पॉलिसी संख्या तथा समाप्ति तिथि/ Previous Policy Number and Expiry Date	NA
(रुपए /Rupees One Lakh Forty Three Thousand Thirty Five केवल/Only.)			
* पर्यावरण राहत कोष /*Environment Relief Fund: ₹ 65,609.58			

<b>Insurance Details:</b>	
<b>Policy Effective from 00:00 hours, on 30/04/2024 to midnight of 29/04/2025</b>	
<b>PLI act Premium</b>	29,126.37
<b>Service tax</b>	0.00
<b>Recoverable stamp duty</b>	0.00
<b>ERF premium</b>	29,126.37
<b>Total amount</b>	58,252.74

Retroactive date:	30/04/2023
Description of risk	PLI ACT POLICY -HAZAROUDS SUBSTANCES HANDLED & GROUP SUCH AS EXPLOSIVES, OIL, LUBRICANTS, GASES, TIMBER AND OTHER HAZARDOUS MATERIAL.
Paid up capital/Market Value of Asset/stock:	1,00,00,000.00
Liability:Any one accident(AOA):	5,00,00,000.00
Any one year(AOY):	15,00,00,000.00



पॉलिसी अनुसूची/ Policy Schedule-Public Liability Insurance Act		
पॉलिसी संख्या / <b>Policy Number:</b> <b>550200492410000034</b>	व्यवसाय स्रोत/ <i>Business Source:</i> 550200	
जारीकर्ता कार्यालय/ <b>Issuing Office</b> कार्यालय कोड/ <i>Office Code:</i> 550200 कार्यालय पता/ <i>Office Address:</i> HYDERABAD <b>BUSINESS OFFICE II CSR Plaza,D No. 6-3-347/9/4,,2nd Floor,Dwarakapuri Colony,Punjagutta, - 500082.</b> राज्य कोड/ <b>State Code:</b> 36 , Telangana जीएसटीएन/ <b>GSTIN:</b> 36AAACN9967E6ZZ संपर्क संख्या/ <i>Contact Number:</i> 40 23401398 मोबाइल संख्या / <i>Mobile Number:</i> 0	विक्रय चैनल विवरण/ <b><u>Sales Channel Details</u></b> कोड/ <i>Code:</i> 550200 नाम/ <i>Name:</i> Hyderabad Division II संपर्क संख्या/ <i>Contact Number:</i> सह दलाल कोड / <i>Co Broker Code:</i>	
	<b>Customer Care Toll Free Number:</b> <b>1800 345 0330</b> <b>email:customer.support@nic.co.in</b>	
Ratio of AOA:AOY:	1:3	
Sum Insured:	5,00,00,000.00	
Annual turn over:	3,46,35,72,00,000.00	

Clauses	As per Annexure.I
<p>टिप्पणियां/ <b>Remarks:</b> PUBLIC LIABILITY INSURANCE ( ACT) POLICY</p> <p>VARIOUS TRANSPORT &amp; STORAGE LOCATIONS OF SCCL ( ALL AREAS ) LIKE : KOTHAGUDEM, YELLANDU, MANUGURU, RAMAGUNDAM -I, RG-II, RG-III, BHOOPALPALLI, BELLAMPALLI, MANDAMARRI, SRIRAMPUR &amp; CORPORATE , TELANGANA STATE.</p> <p>NUMBER OF WORKMEN EMPLOYEES :43672</p> <p>ESTIMATED ANNUAL TURNOVER PROPOSED : RS.346357200000/-</p> <p>AOA: 5 CRORES AOY : 15 CRORES ( 1:3) PAID UP CAPITAL &gt;RS.1733.20 CRORES</p>	

जिसकी गवाही में दिन/ माह /वर्ष को उपरोक्त उल्लिखित कार्यालय पते पर अधोहस्ताक्षरी को विधिवत अधिकृत किया जा रहा है उसके हाथ निर्धारित किए जाएं। यह अनुसूची, संलग्न पॉलिसी, खण्ड, पृष्ठांकन और पॉलिसी शब्दों, जो कंपनी वेबसाइट <https://nationalinsurance.nic.co.in> पर उपलब्ध है, को एक अनुबंध के रूप में एक साथ पढ़ा जाए तथा कोई भी शब्द या अभिव्यक्ति जिसके लिए यह विशिष्ट अर्थ पॉलिसी या अनुसूची के किसी भी हिस्से में संलग्न किया गया हो, एक ही अर्थ वहन करेगा चाहे जहाँ भी उल्लिखित हो। यह आश्वासन दिया जाता है कि प्रीमियम चेक की अस्वीकृति के मामले में, यह दस्तावेज स्वतः आरंभ से ही निरस्त मानी जाएगी। **IN WITNESS WHEREOF**, the undersigned being duly authorized hereunto set his/ her hand at the office address mentioned above, this **06/May/2024**. This schedule, the attached policy, the clauses, the endorsements and policy wordings as available in the website <https://nationalinsurance.nic.co.in> shall be read together as one contract and any word or expression to which the specific meaning has been attached in any part of this policy or of the schedule shall bear the same meaning wherever it may appear. It is warranted that **IN CASE OF DISHONOUR OF THE PREMIUM CHEQUE, THIS DOCUMENT STANDS AUTOMATICALLY CANCELLED 'AB-INITIO'**

इंश्योरेन्सईंडियालिमिटेड ओम्बड्समैन का विवरण/Ombudsman Details: Office of the Insurance Ombudsman,6-2-46, 1st floor, ""Moin Court"", Lane Opp. Saleem Function Palace, A. C. Guard s, Lakdi-Ka-Pool, Hyderabad - 500 004. Tel.: 040 - 23312122  
Email: bimalokpal.hvderabad @cioins.co.in

स्टॉप ड्यूटी  
**Stamp  
Duty:**  
( ₹ 0.50 )

कृते नेशनल इन्श्योरेन्स कंपनी लिमिटेड/  
**For and on behalf of National  
Insurance Company Limited**  
अधिकृत हस्ताक्षरकर्ता/ **Authorized Signatory**

## टैक्स इनवॉयस/TAX INVOICE

इनवॉयस क्र.सं./Invoice Serial No: 30602L4PE0000034

इनवॉयस तिथि/Invoice Date: 06/05/2024

## आपूर्तिकर्ता का विवरण/Details of Supplier:

नेशनल इन्श्योरेंस कंपनी लिमिटेड/National Insurance Company Limited.,  
HYDERABAD BUSINESS OFFICE II CSR Plaza,D No. 6-3-347/9/4,,2nd Floor,Dwarakapuri Colony,Punjagutta, - 500082  
राज्य/State : 36 , Telangana  
जीएसटीआएन नंबर/  
GSTIN No : 36AAACN9967E6ZZ

## प्राप्तकर्ता का विवरण/Details Of Receiver : MS THE SINGARENI COLLIERIES CO LTD

पता/Address : CORPORATE FINANCE & ACCOUNTS DEPARTMENT, PO. KOTHAGUEDEM COLLIERIES, BHADRACHALAM ROAD RLY STN(S C RLY),  
BHADRADRI KOTHAGUEDEM DISTRICT, TELANGANA  
शहर/City : KOTHAGUEDEM,  
ज़िला/District: KHAMMAM,  
राज्य/State: TELANGANA,  
पिन/PIN: 507101.

आपूर्ति का स्थान/Place Of  
Supply State : Telangana  
राज्य कोड/State Code : 36  
जीएसटीआईएन नंबर/GSTIN No : 36AAACT8873F1Z1

सैक कोड/SAC Code	सेवा का विवरण/ Description of Service	कुल/Total(₹)	छूट/ Disco unt	टैक्स योग्य/ मूल्य/ Taxable Value(₹)	सीजीएसटी की राशि/ CGST		एसजीएसटी/यूटीजीएसटी /SGST/UTGST		आईजीएसटी/IGST		Kerala Flood Cess
					दर/ Rate	राशि/Amount(₹)	दर/ Rate	राशि/Amount(₹)	दर/ Rate	राशि/Amount(₹)	राशि/Amount(₹)
997139	Other non-life insurance services (excluding reinsurance services)	65,610	0%	65,610	9%	5,905	9%	5,905	0%	0	0
TOTAL		65,610		65,610		5,905		5,905		0	0

कुल इनवॉयस मूल्य (अंकों में )Total Invoice Value (In figures) : ₹ 1,43,035

कुल इनवॉयस मूल्य (शब्दों में)Total Invoice Value (In words) : रूपए/Rupees One Lakh Forty Three Thousand Thirty Five केवल/Only.

रिवर्स चार्ज के अधीन टैक्स की राशि/ Amount of Tax Subject to Reverse Charge : No

E.&amp;.O.E


कृते नेशनल इन्श्योरेंस कंपनी लिमिटेड/

For and on behalf of National Insurance Company Limited

अधिकृत हस्ताक्षरकर्ता/ Authorized Signatory




**A. Compliance Status of Environmental Clearance conditions as on 30.09.2024.**


<b>EC. Cond No.</b>	<b>Condition</b>	<b>Compliance Status as on 30.09.2024</b>
	<b>2. A. Specific Conditions:</b>	
(i)	Top soil shall be stacked properly with proper slope at earmarked site (s) and shall not be kept active and shall be used for reclamation and development of green belt.	Complied. Top soil is being stacked at earmarked site as envisaged in the approved EMP and it will be used for reclamation.
(ii)	OB shall be stacked at earmarked external OB dumpsite (s) within ML area and shall be a maximum height of 120m only consisting of 4 benches of 30m each. The ultimate slope of the dump shall not exceed 28°; backfilling shall begin during 4 <sup>th</sup> year in the de-coaled area. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional office located at Bangalore on an yearly basis.	Complied. OB is being stacked at earmarked external dumpsite as per EMP. Presently the maximum height of external dump is 90m with 30m deck each. The progress of reclamation of dump sites is being furnished to MoEF&CC once in six months  <b><u>Block Plantation at SRP OCP</u></b>
(iii)	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows, soil, OB and Mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly.  Garland drains of suitable size, gradient and length and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also be provided for adequate retention period to allow proper settling of silt material.	Being Complied Garland drains for a length of 11.96 km are made around the quarry and around the dump. Nine (09) No. of siltation ponds of size 25m x 10m x 4m size and One (01) No. of siltation ponds of size 40m x 20m x 5m, were constructed around the mine workings, coal yard & OB dumps to prevent run off of water and flow of sediments directly into the nearby tanks and water bodies. Dump material is being properly consolidated/ compacted and accumulation of water over dumps is avoided by providing adequate channels for flow of silt into the drains. Sump is provided with sufficient capacity for adequate retention period of seepage water to allow proper settling of silt material. The water so collected in the sump is being utilized





EC. Cond No.	Condition	Compliance Status as on 30.09.2024
		for dust suppression and green belt development and other industrial use. The water collected in the settling ponds is used for industrial purpose like dust suppression, HEMM washing, Plantation etc.
(iv)	An area Drainage Study shall be conducted and protective measures shall be taken to prevent mine inundation.	Complied. An Area drainage study was conducted during preparation of EMP by Anna University Chennai and effective protective measures are taken to prevent inundation by providing adequate garland drains / Nallah of 2.50 Km length 2m wide and 1.5 m depth.
(v)	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.	Being complied. The construction of retaining wall at the toe of the dumps and OB benches within the mine to check run off and siltation are now designed based on the rainfall data and is being done in the project. Retaining wall dimensions: Height – 2.5 m, Width – 3.0 (Bottom) & 1.0 m on top.
(vi)	Crushers at the existing CHP and that to be constructed shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, and transfer points.	Complied. Pressurized mist spray dust suppression system is provided at both the feeder breakers to suppress the dust emissions from crushing operations of coal and also a jute curtain is placed in a room shape around the crusher hoppers for effective control of dust in to environment. Water sprinkling system is also provided at crushing operations, conveyor belts, haul roads and coal transfer points. MoEF & CC is requested to deem this condition as complied as the dust emissions from these operations are within the prescribed limits. Dust extractor provided in the plough feeder of GL Bunker.


EC. Cond No.	Condition	Compliance Status as on 30.09.2024
		 <p><b><u>Water sprinkling arrangement at Coal transfer points</u></b></p>
(vii)	Drills shall be wet operated only. Mechanical sweeping of the main haul roads shall be regularly undertaken.	<p>Being complied.</p> <p>All the drills are provided with wet drilling arrangements and are being wet operated. Road graders / scrapers were regularly used as a part of Mechanical sweeping all along the roadways including main haul roads in the quarry. <u>A proposal was moved to Corporate to procure Mechanical road sweeping machine to invariably comply this condition and Firm order awarded to eligible agency and it is about to commission within few days.</u></p>
(viii)	Controlled blasting shall be practiced only during daytime with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	<p>Complied.</p> <p>Controlled blasting technique with NONELs is being carried out in order to mitigate ground vibrations, fly rock, noise and air blast etc.,</p> <p>Avoiding secondary blasting with proper blast design, spacing and burden. Rock breakers are being used for to avoid secondary blasting/pop shooting of boulders.</p> <p>Noise level survey is being carried out as a part of PPEM at the locations in the Core Zone &amp; Buffer zones of the project</p> <p>The monitoring data is being submitted along with half yearly reports to the ministry/regional office of MoEF&amp;CC on six-monthly basis.</p> <p>In addition, noise level survey is being carried out as per the D.G.M.S. guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises and records are being maintained. The results are enclosed as Annexure-I.</p>
(ix)	Afforestation shall cover a total area of not less than 510.76 ha. which includes reclaimed external OB	<p>Being complied.</p> <p>This condition is complying with the progress of the mine and plantation</p>

EC. Cond No.	Condition	Compliance Status as on 30.09.2024
	dump (246.42 ha), reclaimed topsoil dump, backfilled area (141.81 ha.) along, ML boundary, along drains and along main approach roads, major haul roads, near CHP, parking area and service buildings, undisturbed / vacant area (37.17 Ha) within the lease and in the existing SRP OCP-I mine (85.36 ha.) by planting native species in consultation with the local DFO/ Agriculture Department. The density of the trees shall be around 2500 plants per ha.	was already taken up in an area of 244.91 Ha with 9,39,642 nos. of saplings including of 134.51 Ha of OB dump/ Internal dump has been reclaimed. In addition to this 87.4 Ha. of plantation was taken up beyond mandate with 1,58,429 saplings in RF land along National High Way (NH-16) & 100m Radius along SRP OCP boundary.
(x)	A progressive Mine Closure Plan shall be implemented by reclamation of quarry area of 246.42 ha. which shall be backfilled and the balance area left as void of 230.26 ha at the end of mine life. The backfilled area shall be afforested by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. The de-coaled void being converted into a water reservoir shall be gently sloped, and the upper benches of which shall be stabilized and reclaimed with plantation and the reservoir peripherally fenced.	Progressive mine closure as per the EMP will be implemented and progress of the same will be submitted to Regional Office, MoEF&CC on half yearly basis and afforestation is done by planting the native plant species in consultation with the local DFO / SCCL Forest Department.  Biological reclamation work is being done with native species.
(xi)	The conditions stipulated by the State Ground Water Department shall be effectively implemented. The company shall obtain prior approval of CGWA / CGWB Regional Office for use of ground water if any, for mining operations.	Complied.  Ground water clearance was obtained from State Ground water Dept. vide Lr. No. 236/SCCL/2022-1, date:27.09.2022 for the project.
(xii)	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), Monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May, Data thus collected shall be submitted to the Ministry of Environment & Forests	Being Complied. Regular monitoring of ground water levels and quality is being carried out in and around the mine lease area by establishing a network of existing wells by constructing new piezometer wells. The monitoring of ground water levels is being done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons.



EC. Cond No.	Condition	Compliance Status as on <b>30.09.2024</b>
	and Central pollution control Board quarterly within one month of monitoring.	Data thus collected is being submitting to the MoEF& CC and to the State Pollution Control Board along with half-yearly monitoring reports.
(xiii)	The Company shall put up artificial ground water recharge measures for augmentation of ground water resource in case of monitoring of water table indicates a declining trend. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	<p>Complied.</p> <p>Around 62 No. of Rainwater harvesting pits are constructed in surrounding villages for augmentation of ground water resources.</p> <p>The excess treated mine discharge water after meeting the stipulated norms is being discharged into nearby tank for irrigation and ground water recharge.</p>  <p><b><u>Rain Water Harvesting pits</u></b></p>
(xiv)	Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through an agency such as <b>NIOH, Ahmadabad</b> within a period of one year and the results reported to this Ministry and to DGMS.	<p>Complied.</p> <p>SCCL has well-established health centers with Qualified Doctors as per <b>NIOH Ahmadabad</b> (Occupational health specialist) in each area for monitoring and identification of occupational disease where all facilities have been provided.</p> <p>10% of the workers identified from workforce engaged in active mining operations are being checked up for occupational diseases and hearing impairment. So far 83 no. of persons had undergone PME for these six months.</p>
(xv)	ETP shall also be provided for workshop and CHP wastewater. Mine discharge water shall be treated to prescribed standards before discharge into any natural water course.	<p>Being complied.</p> <p>Waste water generated from the project, is being properly collected and treated so as to conform to the standards prescribed under the Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time.</p> <p>A 3 MLD capacity STP is provided in SCCL's colony for treating colony</p>


EC. Cond No.	Condition	Compliance Status as on 30.09.2024
		<p>effluent. Two ETPs are also provided in the mine one at CHP and another at Base Workshop.</p>  <p>ETP at SRP OCP</p>
(xvi)	The sewage treatment plant installed in the township shall meet the requirements of the expansion project.	<p>Being complied. Sewage generated in the existing colony is being treated in STP of 3.0 MLD capacity located in Naspur Colony and is functioning from 09.07.04.</p>  <p><b><u>Sewage Treatment Plant</u></b></p> <p>The monitoring details are Enclosed as <b>Annexure-II</b>.</p>
(xvi)	For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MoEF and its Regional office at Bangalore.	<p><b>Complied.</b></p> <p>Digital processing of the entire lease area based on satellite imagery is being done regularly once in 3 years for monitoring land use pattern and post mining land use. Satellite imagery land survey was conducted in year 2022, and the report was submitted to MoEF and its Regional Office at Hyderabad. Vide Itr No: SRP/ENV/D-404A/2023/377, date:20.12.2023. Copy enclosed as <b>Annexure-III</b>.</p>
(xvii)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in	<p>Being complied.</p> <p>mine closure plan will be submitted 5 years in advance of final closure of the</p>

<b>EC. Cond No.</b>	<b>Condition</b>	<b>Compliance Status as on 30.09.2024</b>
	advance of final mine closure for approval.	mine to MoEF&CC for approval.
(xviii)	R&R involving 540 PAFs from two villages – Thallapalli (460) and Guttedarpalli (80), which has two villages/hamlets – Ramaraopet Pet village (50) and Singapur village (30) shall be implemented within a specified time frame and shall be higher than that evolved for the National R&R Policy and provide for at least 13.29 crores.	Complied. Action plan on the issues raised during the public hearing is formulated and implementation is being ensured. All the tasks/measures as per the action plan are being undertaken. Land outsees are being compensated as per the norms laid down in the R&R policy of the company/State Government/ Central Government, as applicable.
<b>2B</b>	<b>General Conditions</b>	
(i)	No change in Mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	Complied. There is no change in the technology and scope envisaged in the approved EMP. At present, Shovel & Dumper combination technology is being adopted in the project.
(ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	Being complied. The year wise Coal and OB excavation is within the calendar plan envisaged in the approved EMP
(iii)	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO <sub>2</sub> and NO <sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.	Being complied. Continuous Ambient Air Quality Monitoring Station is established in the core zone for monitoring of pollutants, namely PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . Location of the ambient air quality monitoring stations was identified in consultation with the State Pollution Control Board. Ambient air quality parameters such as PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> are being monitored at regular intervals. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc., are being carried out once in six months and monitoring data is being submitted along with half yearly reports to the ministry and its regional office of MoEF&CC.
(iv)	Fugitive dust emissions (SPM and RPM) from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads,	Complied. Coal handling plant is being operated with effective control measures such as water spray system at in pit & surface crushers, at every transfer

EC. Cond No.	Condition	Compliance Status as on <b>30.09.2024</b>
	wagon loading, and dump trucks (loading and unloading) points should be provided and properly maintained.	<p>points, along belt conveyor, fog canon dust suppression system at GL bunkers, silo loading and high pressure mist spray system at plough feeders. In addition to this loading and unloading points, fixed points are provided with water spraying system and water sprinkling with mobile water sprinklers.</p>  <p><b>Dry fog at Crusher</b></p>
(v)	Data on ambient air quality (SPM, RPM, SO <sub>2</sub> and NO <sub>x</sub> ) shall be regularly submitted to the Ministry including its Regional Office at Bangalore and to the State Pollution Control Board and the <b>Central Pollution Control Board once in six months.</b>	<p>Complied.</p> <p>Data on ambient air quality (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>2</sub>) is being regularly submitted to regional office, TGPCB and on Six monthly basis to Regional office MoEF&amp;CC, Chennai and the Central Pollution Control Board. The monitoring results are enclosed as <b>Annexure-IV.</b></p>
(vi)	Adequate measures should be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc should be provided with ear plugs/muffs.	<p>Complied.</p> <p>Sound proof cabins are provided in HEMM except Dozer, Drill &amp; Grader where there is design constraint.</p> <p>Planned preventive maintenance of the HEMM is being Carried out to control the vehicular emissions and Noise. The persons engaged in drilling and blasting operations are being provided with earplugs. 400 nos. ear plugs provided to the workmen during last six months period.</p>



EC. Cond No.	Condition	Compliance Status as on 30.09.2024
		 <p><b><u>Wearing of Ear plugs</u></b></p>
(vii)	Industrial wastewater (Workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.	<p>Complied.</p> <p>The effluent discharge (mine waste water, workshop effluent) is being monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.</p> 
(viii)	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.	<p>Complied.</p> <p>Vehicular emissions are being kept under control and they are regularly monitored.</p> <p>Vehicular emissions are being monitored at every six months interval through EPTRI, Hyderabad, which is a CPCB, recognized and NABL accredited laboratory.</p> <p>'PUC' certificates for OB contractual vehicles are being obtained by respective contractual agencies from the authorized pollution testing centers.</p>
(ix)	Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipment in consultation	<p>Complied.</p> <p>Post project environmental monitoring work is being carried out by out sourced agency [Environment</p>

EC. Cond No.	Condition	Compliance Status as on 30.09.2024
	with the State pollution Control Board.	<p>Protection Training and Research Institute (<b>EPTRI</b>), Hyderabad] which is a CPCB recognized and NABL accredited laboratory.</p> <p>A Regional Environmental Laboratory for Bellampalli Region was commissioned with all facilities at Mandamarri Area for monitoring of critical parameters in the field.</p>
(x)	<p>Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.</p> <p>Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.</p>	<p>Complied.</p> <p>Persons being deployed in open atmosphere in mining operations (including outsourced employees) are being provided with dust masks to wear and adequate training and information on safety and health aspects is being imparted.</p> <p>Dust masks are being provided to workmen exposed to dusty environment.</p> <p>Dust masks to the outsourced employees are being provided by respective OB contractual agencies.</p> <p>Adequate training is being imparted on safety and health aspects at the Mine Vocational Training Centre, Srirampur during initial/ refresher training programmes and being educated regularly during safety education, talks etc. by concerned in charges.</p> <div data-bbox="863 1361 1370 1680">  </div>
(xi)	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 company.	<p>Complied.</p> <p>Area level Environmental Management committee has been constituted with following members.</p> <ol style="list-style-type: none"> <li>1) General Manager – Chairman.</li> <li>2) Project Officer - Secretary.</li> <li>3) Area Env. Officer - Member</li> <li>4) Mine Manager - Member</li> <li>5) Mine Safety Officer - Member.</li> <li>6) Project Env. Incharge - Member</li> </ol>

EC. Cond No.	Condition	Compliance Status as on 30.09.2024
		<p>7) Area Sr. Forest officer – Member.  8) Project Survey Officer - Member.  9) Area/Project E&amp;M Engineer - Member.  10) Area Civil Engineer - Member.  11) Region Hydro geologist – Member.  12) Area Estates manager - Member.  13). Area Survey Officer - Member.</p> <p>Apart from the above, a corporate environmental Apex Committee is established to monitor and guide in implementation of the environmental safeguards.</p>
(Xii)	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 this Ministry and its regional Office at Bangalore.	<p>Complied.</p> <p>The funds earmarked for the environmental safeguards are being kept in separate account and will not be diverted for other purpose.</p> <p>Year wise expenditure is being reported to the Ministry and its Regional Office of MoEF&amp;CC.</p> <p>The expenditure details enclosed as <b>Annexure-V.</b></p>
(xiii)	The Regional Office of this Ministry located at Bangalore shall monitor compliance of stipulated conditions. The Project authorities shall extend full co-operation to the Office(s) of the regional Office by furnishing the requisite data / information/monitoring reports.	<p>Agreed to comply.</p> <p>Project Authority will extend full cooperation to the office (s) of the regional office by furnishing the requisite data / information / monitoring reports.</p>
(xiv)	A copy of the clearance letter will be marked to concerned Panchayat / local NGO, If any, from whom any suggestion/ representation has been received while processing the proposal.	<p>Complied.</p> <p>The copy of the Clearance letter was send to following Panchayats vide Lr.No.SRP/ENV/N-408/2008/187, dtd.02.09.2008</p> <p>i) Thallapalli Grampanchayat,  ii) Singapur Grampanchayat  iii) Ramaraopet Grampanchayat</p>
(xv)	State Pollution Control Board shall display a copy of the clearance letter at the regional Office, District Industry Centre and Collector's Office/ Tehsildar's Office for 30 days.	<p>complied.</p> <p>This condition has already been complied.</p>
(xvi)	The Project authorities shall advertise at least in two local	<p>Complied.</p> <p>Advertisement given in the following</p>

EC. Cond No.	Condition	Compliance Status as on 30.09.2024
	<p>newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at the website of the ministry of Environment &amp; forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>.</p>	<p>Daily News papers stating that the SRP OCP- II Mine of SCCL has been accorded the Environmental Clearance from Ministry of Environment and Forests, GOI, New Delhi.</p> <p>i) Deccan Chronicle (English), dtd.26.07.2008 and ii) Eenadu (Telugu), dtd. 26.07.2008</p>

  
 Project Officer,  
 Srirampur Opencast II Expansion Project  
**Project Officer**  
**SRP.OC-II Exp. Proj. Mine**



**ANNEXURE –VII**

**NOISE LEVEL MONITORING DATA FOR THE PERIOD FROM APRIL, 2024 TO SEPTEMBER, 2024 AROUND SRIRAMPUR  
OPENCAST– II EXPANSION PROJECT**

Fortnight	SRP OCP Site Office			SRP OCP Base workshop			Srirampur village			Indaram village			Ramaraopet village		
	Date	L <sub>day</sub>	L <sub>night</sub>	Date	L <sub>day</sub>	L <sub>night</sub>	Date	L <sub>day</sub>	L <sub>night</sub>	Date	L <sub>day</sub>	L <sub>night</sub>	Date	L <sub>day</sub>	L <sub>night</sub>
<b>Apr–I</b>	12.04.2024	50	40.2	12.04.2024	59.5	47.9	10.04.2024	43.2	33	11.04.2024	42.7	30.9	12.04.2024	42.1	35.2
<b>Apr –II</b>	25.04.2024	42.7	33.8	25.04.2024	50.9	43.4	26.04.2024	41	34.5	24.04.2024	42.7	31.8	24.04.2024	44.6	31.8
<b>May –I</b>	10.05.2024	50.7	41.3	10.05.2024	62.3	49.3	10.05.2024	45.8	34.7	09.05.2024	42.9	32.4	09.05.2024	49.9	38.5
<b>May -II</b>	28.05.2024	43.6	37.4	28.05.2024	52.4	42.9	25.05.2024	34.4	28	25.05.2024	43.3	35.5	24.05.2024	39.1	29.3
<b>June–I</b>	10.06.2024	51.1	45.3	10.06.2024	58	48.8	10.06.2024	43.2	33.6	08.06.2024	42.8	34.7	08.06.2024	47.2	33.7
<b>June –II</b>	26.06.2024	43.2	33	26.06.2024	57.5	45.2	26.06.2024	42.4	32.2	25.06.2024	43.3	31.2	25.06.2024	47.7	33.3
<b>July–I</b>	10.07.2024	56.6	44.5	10.07.2024	60.4	52.8	10.07.2024	41.1	36.2	09.07.2024	47.2	37.5	09.07.2024	38.7	33.4
<b>July–II</b>	25.07.2024	44.1	37.6	25.07.2024	54.7	45.8	25.07.2024	43.3	35.3	24.07.2024	42.7	33.9	24.07.2024	40.6	27.7
<b>Aug-I</b>	10.08.2024	50.1	41	10.08.2024	59.3	45.8	10.08.2024	42.9	30.3	09.08.2024	43.4	35.6	09.08.2024	47.9	35.1
<b>Aug -II</b>	27.08.2024	43.4	32.7	27.08.2024	59.3	47	27.08.2024	33.1	29.5	24.08.2024	42.4	34.5	24.08.2024	43.4	30.9
<b>Sep-I</b>	10.09.2024	49.4	33.7	10.09.2024	59.5	46.6	10.09.2024	42.6	38.4	09.09.2024	48.3	36.6	09.09.2024	34.8	27.5
<b>Sep -II</b>	26.09.2024	44.9	34.5	26.09.2024	58.4	45.7	26.09.2024	42.6	34.4	25.09.2024	39.8	29.5	25.09.2024	37.4	28.3
	<b>Average</b>	<b>47.5</b>	<b>37.9</b>		<b>57.7</b>	<b>46.8</b>		<b>41.3</b>	<b>33.3</b>		<b>43.46</b>	<b>33.68</b>		<b>42.78</b>	<b>32.06</b>
<b>Limits</b>		<b>75</b>	<b>70</b>		<b>75</b>	<b>70</b>		<b>55</b>	<b>45</b>		<b>55</b>	<b>45</b>		<b>55</b>	<b>45</b>

## Analysis Report of monthly summary of 3.0MLD Sewage treatment Plant – Naspur Colony from April, 2024 to September, 2024

All Values in Mg/Liter (Except pH)

Month	Description	Characteristics of Raw Sewage				Characteristics of Aeration Water					Characteristics of Treated Water				
		pH	TSS	COD	BOD	pH	DO	MLSS	MLVSS	TDS	pH	DOB	TSS	COD	BOD
April-2024	Min	7.7	205	205	205	7.3	1.7	3200	382	1900	6.8	1.2	12	12	28
	Max	7.9	220	220	220	7.6	1.9	3980	400	2410	7.1	1.6	16	16	32
	Aver	7.8	209.7	211.7	210.0	7.4	1.8	3585.7	391.0	2201.3	7.0	1.4	14.5	13.3	30.4
May-2024	Min	7.7	205	205	205	7.3	1.7	2900	382	1820	6.8	1.2	12	12	28
	Max	7.9	220	220	220	7.7	1.9	3880	400	2390	7.1	1.6	16	16	32
	Aver	7.8	213.7	212.8	209.2	7.5	1.8	3361.1	391.0	2142.9	6.9	1.4	14.4	14.0	30.3
June-2024	Min	7.7	200	205	205	7.3	1.6	3100	382	1840	6.8	1.2	12	12	28
	Max	7.9	210	220	210	7.6	1.9	3890	398	2480	7.1	1.4	16	16	32
	Aver	7.8	207.3	211.7	207.5	7.4	1.8	3506.7	390.6	2218.8	7.0	1.3	13.7	14.3	30.5
July-2024	Min	7.7	205.0	205.0	205.0	7.2	1.7	2460.0	381.0	1700.0	6.8	1.2	12.0	14.0	28.0
	Max	7.9	220.0	250.0	215.0	7.6	1.9	3695.0	398.0	2390.0	7.1	1.4	16.0	16.0	32.0
	Aver	7.8	208.4	213.0	207.5	7.3	1.8	3223.7	390.1	2113.8	6.9	1.3	14.3	14.7	30.5
August-2024	Min	7.7	205	205	205	7.3	1.7	2800	384	1780	6.8	1.2	12	14	28
	Max	7.9	215	220	210	7.6	1.9	4040	398	2490	7.1	1.6	16	16	32
	Aver	7.9	208.3	210.3	207.9	7.4	1.8	3339.8	391.0	2105.7	6.9	1.4	14.8	14.9	30.5
Sep-2024	Min	7.7	205	205	205	7.3	1.7	1740	384	1730	6.8	1.2	14	14	28
	Max	7.9	210	220	210	7.6	1.9	4020	398	2495	7.1	1.6	16	16	32
	Aver	7.8	208.3	209.0	207.5	7.4	1.8	2922.7	392.1	2185.6	7.0	1.4	15.1	14.7	30.0
	standard	-	-	-	-	-	-	-	-	--	5.5-9.0	--	100	30	250

**POST PROJECT WATER QUALITY (EFFLUENTS) MONITORING DATA FOR THE PERIOD FROM APRIL, 2024 TO SEPTEMBER, 2024**

❖ Location of the water Quality monitoring Station : SRP OC Base workshop ETP Out let

Sl. No.	Station name	Date of sampling	Concentration in mg/Liter (Except pH)					
			pH (at 25 <sup>o</sup> C)	TSS At 105 <sup>o</sup> C	TDS (At 180 <sup>o</sup> C)	COD	BOD	Oil & Grease
	MoEF GSR 742(E) and GSR 801(E) Effluent standards for coal mines		5.5-9.0	100	--	250	30	--
2.	SRP OC Base work shop ETP Out let	15.04.2024	7.5	69	1357	64	13.6	3.2
		30.04.2024	7.5	64	1295	72	15.6	2.4
		15.05.2024	7.7	81	1012	59	14.4	2
		30.05.2024	7.1	76	955	63	15.3	<1
		14.06.2024	7.3	69	1186	52	11.2	2.8
		27.06.2024	7.2	58	1025	67	15.2	3.4
		15.07.2024	7.6	71	1268	47	12.4	3.2
		30.07.2024	8.1	66	1344	56	13.5	3.8
		14.08.2024	7.6	57	1566	71	15.5	3.2
		31.08.2024	7.7	76	1623	63	12.5	2.4
		13.09.2024	7.8	76	1296	76	16.5	2.4
		30.09.2024	7.9	81	1098	55	11.6	2
	Minimum		7.10	57.00	955.00	47.00	11.20	2.00
	Maximum		8.10	81.00	1623.00	76.00	16.50	3.80
	Average		7.58	70.33	1252.08	62.08	13.94	2.80
	98% tile		8.06	81.00	1610.46	75.12	16.30	3.72
Test Method			4500H <sup>+</sup> B	2540-D	2540-C	5220-D	IS 3025	2540-C



❖ Location of the water Quality monitoring Station: SRP OCP CHP out let

Sl. No.	Station name	Date of sampling	Concentration in mg/Liter (Except pH)					
			pH (at 25 <sup>o</sup> C)	TSS At 105 <sup>o</sup> C	TDS (At 180 <sup>o</sup> C)	COD	BOD	Oil & Grease
	MoEF GSR 742(E) and GSR 801(E) Effluent standards for coal mines		5.5-9.0	100	--	250	30	10
3.	SRP OCP CHP out let.	15.04.2024	7.6	51	841	23	2.4	<1
		30.04.2024	7.1	63	916	36	7.1	<1
		15.05.2024	7.4	42	1042	31	6.4	<1
		30.05.2024	7.7	37	987	43	9.6	1.2
		14.06.2024	7.2	29	1143	52	11.6	1.2
		27.06.2024	7.4	44	1017	39	10.5	<1
		15.07.2024	7.7	33	845	35	9.5	<1
		30.07.2024	7.9	41	966	32	3.2	<1
		14.08.2024	7.5	36	748	23	2.4	<1
		31.08.2024	7.6	45	919	19	3.1	<1
		13.09.2024	7.8	45	885	24	2.6	<1
		30.09.2024	7.5	52	936	27	3.8	<1
	Minimum		7.10	29.00	748.00	19.00	2.40	1.20
	Maximum		7.90	63.00	1143.00	52.00	11.60	1.20
	Average		7.53	43.17	937.08	32.00	6.02	1.20
	98% tile		7.88	60.58	1120.78	50.02	11.36	1.20
Test Method			4500H <sup>+</sup> B	2540-D	2540-C	5220-D	IS 3025	2540-C

**POST PROJECT AMBIENT AIR QUALITY MONITORING DATA FOR THE PERIOD FROM APRIL, 2024 to SEPTEMBER, 2024 FOR SRIRAMPUR OPENCAST-II EXPANSION PROJECT.**

❖ Location of the Ambient Air Quality monitoring Station : SRP OC-II Site office

Sl. No.	Station Name	Date of Sampling	Parameters ( µg/Cu. Mtr.)			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	Coal mine standards GSR 742(E), dtd.25.09.2000 & NAAQS, Dtd.18.11.2009		250	--	120	120
1.	SRP OCP Site Office.	11.04.2024	182	67.4	9.8	13.9
		24.04.2024	160	58.5	9.3	13.8
		09.05.2024	175	74.8	10.6	15.4
		24.05.2024	177	74.8	9.7	14.9
		08.06.2024	172	54.7	10.9	15.9
		25.06.2024	179	75.6	9.7	13.9
		09.07.2024	177	55.4	9.8	12.9
		24.07.2024	129	44.5	10.1	13.9
		09.08.2024	130	59.9	10.9	13.9
		24.08.2024	120	44.4	10.7	16
		09.09.2024	137	69.6	9.5	14.6
		25.09.2024	141	68.5	9.7	15.2
	Minimum		120.0	44.4	9.3	12.9
	Maximum		182.0	75.6	10.9	16.0
	Average		156.6	62.3	10.1	14.5
	98% tile		181.3	75.4	10.9	16.0

❖ Location of the Ambient Air Quality monitoring Station: SRP OC-I Base workshop.

Sl. No.	Station Name	Date of Sampling	Parameters ( µg/ Cu.Mtr.)			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	Coal mine standards GSR 742(E), dtd.25.09.2000 & NAAQS, Dtd.18.11.2009		250	--	120	120
2.	SRP OCP-I & II Base workshop	11.04.2024	209	77.2	11.4	14.6
		24.04.2024	194	64.2	9.6	15.8
		09.05.2024	211	79.5	10.6	14.8
		24.05.2024	213	77.6	10.5	14.7
		08.06.2024	184	57.6	9.7	12.4
		25.06.2024	193	76.8	11.5	15.2
		09.07.2024	185	57.9	9.5	14
		24.07.2024	130	46.4	10.9	13.6
		09.08.2024	142	61.7	10.4	14.8
		24.08.2024	127	46.7	12.1	16.2
		09.09.2024	145	72.4	10.9	14.7
		25.09.2024	137	62.1	9.2	12.6
	Minimum		127.0	46.4	9.2	12.4
	Maximum		213.0	79.5	12.1	16.2
	Average		172.5	65.0	10.5	14.5
	98% tile		212.6	79.1	12.0	16.1

❖ Location of the Ambient Air Quality monitoring Station : Srirampur Colony.

Sl. No.	Station Name	Date of Sampling	Parameters ( µg/Cu. Mtr.)			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	Coal mine standards GSR 742(E), dtd.25.09.2000 & NAAQS, Dtd.18.11.2009		250	--	120	120
3.	SRP OCP-II Pit Head CHP	11.04.2024	216	74.5	12.5	17.8
		24.04.2024	214	67.8	9.6	13.6
		09.05.2024	218	81.3	12.4	15.9
		24.05.2024	209	75.1	9.7	13.9
		08.06.2024	218	67.2	11.2	17.1
		25.06.2024	196	79.7	10.9	15.6
		09.07.2024	198	59.2	11.1	15.4
		24.07.2024	158	51.3	9.7	14.2
		09.08.2024	160	64.1	9.7	13.7
		24.08.2024	143	51.9	10.7	15.9
		09.09.2024	159	71.5	9.2	13
		25.09.2024	149	64.2	10.6	14.8
	Minimum		143.0	51.3	9.2	13.0
	Maximum		218.0	81.3	12.5	17.8
Average		186.5	67.3	10.6	15.1	
	98% tile		218.0	80.9	12.5	17.6

- No standard was specified for PM<sub>2.5</sub> in core zone

❖ Location of the Ambient Air Quality monitoring Station: SRP OCP Camp Office

Sl. No.	Station Name	Date of Sampling	Parameters ( µg/Cu. Mtr.)			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	Coal mine standards GSR 742(E), dtd.25.09.2000 & NAAQS, Dtd.18.11.2009		250	--	120	120
4.	SRP OCP-II Camp Office	11.04.2024	187	69.4	11.7	15.4
		24.04.2024	178	59.9	11.5	15.2
		09.05.2024	163	72.4	11.9	16.7
		24.05.2024	182	69.3	11.9	15.2
		07.06.2024	166	61.3	10.4	16.6
		24.06.2024	182	62.5	10.6	15.8
		08.07.2024	167	47.3	11.5	14.1
		23.07.2024	142	53.8	11.2	14.5
		08.08.2024	119	51.2	11.7	14.1
		23.08.2024	108	53.2	12.1	15.4
		09.09.2024	138	64.8	11.4	17.1
		25.09.2024	140	67.4	10.2	16.4
	Minimum		108.0	47.3	10.2	14.1
	Maximum		187.0	72.4	12.1	17.1
Average		156.0	61.0	11.3	15.5	
	98% tile		185.9	71.7	12.1	17.0

-No standard was specified for PM<sub>2.5</sub> in core zone

❖ Location of the Ambient Air Quality monitoring Station : Srirampur Colony

Sl. No.	Station Name	Date of Sampling	Parameters ( µg/Cu.Mtr.)			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	NAAQ Standards, CPCB dtd,18.11.2009		100	60	80	80
5.	Srirampur Colony	09.04.2024	80	41.5	11.6	14.7
		25.04.2024	79	42.5	9.1	13.7
		10.05.2024	87	46.7	9.2	15.4
		25.05.2024	85	44.2	8.6	14.9
		10.06.2024	57	32.4	9.8	14.5
		26.06.2024	77	39.6	9.6	13.8
		10.07.2024	62	33.2	7.8	12.1
		25.07.2024	68	36.8	8	12.2
		10.08.2024	60	34.4	9.8	12.4
		27.08.2024	59	31.3	10.4	13.7
		10.09.2024	54	29.5	10.5	13.2
		26.09.2024	59	32.5	8.5	12
	Minimum		54.00	29.50	7.80	12.00
	Maximum		87.00	46.70	11.60	15.40
Average		68.92	37.05	9.41	13.55	
	98% tile		86.56	46.15	11.36	15.29

❖ Location of the Ambient Air Quality monitoring Station: Srirampur Village

Sl. No.	Station Name	Date of Sampling	Parameters ( $\mu\text{g}/\text{Cu. Mtr.}$ )			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	NAAQ Standards, CPCB dtd,18.11.2009		100	60	80	80
6.	Srirampur Village	09.04.2024	61	34.2	8.2	13.2
		24.04.2024	87	46.7	8.7	14.1
		09.05.2024	77	39.2	8.6	14.6
		24.05.2024	67	37.5	9.2	14.8
		08.06.2024	84	44.7	9	12.9
		25.06.2024	76	38.5	9.2	12.8
		09.07.2024	76	39.1	9	13.4
		24.07.2024	56	33.2	10.2	13.1
		09.08.2024	55	30.8	9	12.2
		24.08.2024	53	29.8	9.8	12.9
		09.09.2024	62	33.3	8	12.9
		25.09.2024	71	38.6	9.8	14.8
	Minimum		53.0	29.8	8.0	12.2
	Maximum		87.0	46.7	10.2	14.8
Average		68.8	37.1	9.1	13.5	
	98% tile		86.3	46.3	10.1	14.8

❖ Location of the Ambient Air Quality monitoring Station: Sitharampalli Village

Sl. No.	Station Name	Date of Sampling	Parameters ( $\mu\text{g}/\text{Cu.Mtr.}$ )			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	NAAQ Standards, CPCB dtd,18.11.2009		100	60	80	80
7.	Sitharampalli Village	11.04.2024	82	44.5	9.2	12.4
		24.04.2024	77	38.7	8	13
		09.05.2024	66	36.3	7.1	14.4
		24.05.2024	67	38.3	10	12.2
		08.06.2024	59	31.8	9.6	12.7
		25.06.2024	69	37.4	8.6	13.4
		09.07.2024	65	35.4	8.6	14.6
		24.07.2024	60	31.5	8.8	12.4
		09.08.2024	50	28.1	8.3	12.7
		24.08.2024	63	35.4	8	13
		09.09.2024	67	36.5	9.6	12.4
		25.09.2024	68	36.4	9.7	13.7
	Minimum		50.00	28.10	7.10	12.20
	Maximum		82.00	44.50	10.00	14.60
	Average		66.08	35.86	8.79	13.08
	98% tile	80.90	43.22	9.93	14.56	

❖ Location of the Ambient Air Quality monitoring Station: Ramaraopet village

Sl. No.	Station Name	Date of Sampling	Parameters ( $\mu\text{g}/\text{Cu.Mtr.}$ )			
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
	NAAQ Standards, CPCB dtd,18.11.2009		100	60	80	80
8.	Ramaraopet Village	11.04.2024	86	44.9	8	11.5
		23.04.2024	90	47.4	9	13.8
		08.05.2024	72	38.1	10.2	14.2
		23.05.2024	87	48.2	10.1	13.7
		07.06.2024	84	44.5	8.6	13.4
		24.06.2024	74	39.5	9.8	12.4
		08.07.2024	63	34.8	9	12.2
		23.07.2024	68	36.8	10.4	13.7
		08.08.2024	57	29.2	10	13.4
		23.08.2024	58	30.2	10	13.8
		07.09.2024	53	29.8	9.7	12.5
		24.09.2024	56	31.2	9.2	12.1
	Minimum		53.0	29.2	8.0	11.5
	Maximum		90.0	48.2	10.4	14.2
Average		70.7	37.9	9.5	13.1	
	98% tile		89.3	48.0	10.4	14.1

**Revenue Expenditure incurred on Environment Management and Pollution Control Measures:**

Sl. No	Expenditure Head	Capital Expenditure (in Rs.)	Revenue Expenditure (in Rs.)		
		Up to 2024-25 (apr-sep)	Up to 2023-24	2024-25 (apr-sep)	Total
I	Air pollution (Prevention & control)	3742882	131323972.9	8247963.96	<b>139571936.9</b>
II	Water pollution (Prevention & Control)	4225704	14468574.3	1196343.96	<b>15664918.26</b>
III	Land development	92233403	0	0	<b>0</b>
IV	Plantation	8875010	20561711	16576716	<b>37138427</b>
V	Equipment for maintenance of environment protection	4200000	67043308	14067544	<b>81110852</b>
VI	Consultancy payments	1270048	7778000	<b>0</b>	<b>7778000</b>
VII	OB Reclamation / Subsidence management	115300	117857083	311824	<b>118168907</b>
VIII	Environment awareness / Environment education	0	59200	10000	<b>69200</b>
IX	Noise & Blasting vibration	212647	49738052	1192824.24	<b>50930876.24</b>
X	Others	0	245908	0	<b>245908</b>
	<b>Total</b>	<b>114874994</b>	<b>409075809</b>	<b>41603216.16</b>	<b>450679025.4</b>



**THE SINGARENI COLLIERIES COMPANY LIMITED**  
(A GOVERNMENT COMPANY)  
**Environment Department**  
**Srirampur Area**

Ref: SRP/ENV/D-404A/2023/ 377

Date: 20.12.2023

To

**The Director,**

Ministry of Environment, Forests & Climate Change (MoEF &CC),

Integrated Regional Office, Hyderabad.

3<sup>rd</sup> Floor, Aranya Bhawan, Opp, RBI, Saifabad,

Hyderabad - 500 004.

Respected Sir,

**Sub: Submission of reports on Land use Land cover study of core and buffer zones of mines Srirampur Area, SCCL - Reg.**

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With reference to the subject cited above, herewith enclosing the reports for the study period-2022, on land use land cover study of Core & Buffer zones of Srirampur Area mines namely: RK-5, RK-6, RK-7, SRP-1, SRP-3&3A Inclines, SRPOC-II Expansion and Indaram OCP at Srirampur Area, Mancherial District, Telangana state, pertaining to the Singareni Collieries Company Limited is being furnished for compliance of the EC conditions.

This is for your kind perusal.

Yours Faithfully,

  
General Manager,  
Srirampur Area.  
*General Manager*  
SRIRAMPUR

Encl: as above



MONITORING OF BLAST INDUCED GROUND VIBRATIONS AT SRIRAMPUR Opencast-II Expansion project  
WITH MINIMATE EAQUIPMENT DURING APRIL-SEPTEMBER-2024

Sl.No	Date	Blasting RL	Location	Minimate Station distance from Blasting area (in mtrs)	Ground vibration reading p.p.v.mm/sec.	Sound level dB(A)Decibels
1.	01.04.2024	840	RAMARAOPET	750	0.773	<88
2.	02. 04.2024	760	GUTHEDARPALLI	790	0.284	100.0
3.	03. 04.2024	740	GUTHEDARPALLI	750	0.696	<88
4.	04.04.2024	740	GUTHEDARPALLI	775	0.421	101.9
5.	04.05.2024	740	Ramaraopet uder bridge	900	0.582	107.0
6.	05.05.2024	850	Guthedarpalli	600	0.220	109.5
7.	06.05.2024	850	Guthedarpalli	650	0.475	117.9
8.	07.05.2024	790	Guthedarpalli	900	0.582	109.9
9.	04.06.2024	760	Ramaraopet uderbridge	1280	< Trigger value	< Trigger value
10.	05.06.2024	780	Ramaraopet uderbridge	910	0.186	106.0
11.	06.06.2024	760	Ramaraopet uderbridge	1280	< Trigger value	< Trigger value
12.	07.06.2024	840	Ramaraopet uderbridge	1200	0.432	102.8
13.	08.07.2024	770	Guthedarpalli	620	1.191	91.48
14.	09.07.2024	850	Railway bund	1300	< Trigger value	< Trigger value
15.	10.07.2024	820	Railway bund	1000	< Trigger value	< Trigger value
16.	11.07.2024	750	Railway bund	1050	< Trigger value	< Trigger value
17.	07.08.2024	725	Guthedarpalli Village	860	< Trigger value	< Trigger value
18.	08.08.2024	840	Srirampur bus stand	560	0.982	<88
19.	09.08.2024	730	Guthedarpalli Village	750	0.785	91.48
20.	10.08.2024	840	Srirampur bus stand	300	1.013	117.8
21.	05.09.2024	720	Ramaraopet under bridge	990	Not Triggered	Not Triggered
22.	06.09.2024	700	Ramaraopet under bridge	1170	Not Triggered	Not Triggered
23.	07.09.2024	770	Ramaraopet under bridge	870	Not Triggered	Not Triggered
24.	08.09.2024	720	Ramaraopet under bridge	990	Not Triggered	Not Triggered