



Singareni Collieries Company Limited
(A Govt. Company)
RAMAGUNDAM AREA-I

Ref: RGM/ENV/9A/69.

Date: 31.05.2021

To
The Director,
Ministry of Environment, Forest and Climate change
Regional Office (South Eastern Zone),
1st & 2nd Floor, HEPC Building, No.34,
Cathedral Garden Road, Nungambakkam,
Chennai - 600034

Dear Sir,

Sub: Submission of Half Yearly Environmental Monitoring Report of
Peddampeta Shaft of M/s S.C.Co.Ltd., for the period October 2020
to March 2021 – Reg.

Ref: J-11015/ 307/2006-IA-II (M), dated.11-06-2007.

With reference to the subject cited above, please find enclosed herewith the half yearly environmental monitoring report along with soft copy for the Period October 2020 to March 2021 in respect of Peddapet Shaft of Singareni Collieries Company Ltd.

The report consists of Part-I, which indicates the status of the implementation of Environmental Clearance conditions, and Part-II indicates various environmental control measures, annexure and analysis data being taken.

Thanking you,

Yours faithfully,

General Manager
Ramagundam Area -I

Encl: Hard copy and Soft Copy

Cc: Environmental Engineer,
T.S..Pollution Control Board,
Near ZP High School,
NTPC Temporary Township
Jyothinagar-505215.
Peddapalli Dist, TS.



SINGARENI COLLIERIES COMPANY LIMITED
(A Government Company)
RAMAGUNDAM-1 AREA

HYMR of Peddampet Shaft for the period October 2020 to March 2021
PART-1

A. SALIENT FEATURES OF THE PROJECT:

1	Name of the Project	:	PEDDAMPET SHAFT
2	Organization	:	SINGARENI COLLIERIES COMPANY LIMITED
3	Coalfield	:	Godavari Valley Coal Field
4	Type of Mine	:	Underground
5	Technology	:	Mechanization
6	Environmental Clearance	:	
	A	Letter No & date	: J-11015/ 307/2006-IA-II (M) dated 11-06-2007
	B	Sanction capacity	: Normative: 1.459 MTPA
	C	Mining Lease Area	: 725 ha
	D	Date of Public Hearing	: 28.12.2005
7	Location of the Project	:	
	A	Village	: Peddampet
	B	Tehasil	: Kamanpur/Ramgiri
	C	District	: Peddapalli,
	D	State	: Telangana State
	E	N Latitude	: N 18 ⁰ 41'30" to 18 ⁰ 41'10"
	F	E Longitude	: E 79 ⁰ 32'58" to 79 ⁰ 34'54"
	G	Topo Sheet	: 56N/10
	H	Nearest railway station	: Ramagundam
	I	Nearest Airport	: Hyderabad
	J	Nearest town	: Godavarikhani
8	Address for Correspondence	:	
	A	Name	: Ch.Srinivas
	B	Designation	: Agent
	C	Address	: GDK11Incline
	D	Pin Code	: 505184
	F	E-mail ID	: agt_gdk6b_rg1@scclmines.com
	G	Telephone No.	: 08728 244292
	H	Fax No.	: --
9	Life of the Project	:	
	A	Date of Opening	: 11.06.2007 (It is being worked through entries of GDK 11A)
	B	Total Life of the project as per EMP	: 32 years
	C	Balance Life	: 18
10	Seams	:	
	A	Total Seams Present	: 3 (II,III,& IV) seams
	B	Seams being worked	: 2 (III & IV)
11	Depth	:	
	A	Minimum Depth (m)	: 172
	B	Maximum Depth (m)	: 443
	C	Present working depth (m)	: 256m (3S), 266 m(4S)
12	Reserves	:	
	A	Total Geological Reserves	: 112.622
	B	Total Extractable Reserves	: 41.40 MT
	C	Reserves already Extracted	: 7.485 MT
	D	Balance Reserves	: 33.914 MT
	E	Coal production during last six months in Tonnes	: 3 Seam : 0.398 4 Seam : 0.439 Total : 0.837 LT (0.0837 MT)
13	Land Requirement	:	
	A	Total Requirement (Mine Take	: 725 Ha.

	Area)	
B	Forestland Involved	Nil
C	Non-forestland	725 Ha.
D	Land acquired so far (Surface rights)	--
14	Statutory Clearances	:
A	Ground Water Clearance	Memo No:13050/HgII(I)/06 Dated:30.08.07
B	Consent for Operation	: Consent Order No .17082576927 Date:14.03.2017 Valid up to 31.03.2022
C	Forest Clearance	: No Forest Land involved
D	Mining Lease	: South Godavari Valid up to 31.12.2034 and Pandula Palli ML Valid up to 18.07.2021.

STATUS OF IMPLEMENTATION OF MOEF ENVIRONMENTAL CLEARANCE CONDITIONS.

(a).SPECIFIC CONDITIONS:

Sl. No.	Condition	Compliance Status
(i)	Mining shall be carried out as per statute at a safe distance from the river flowing within the lease boundary after its diversion.	Complied: Mining is being carried out as per statute at a safe distance from the river flowing within the lease boundary after its diversion.
(ii)	Sufficient coal pillars shall be left un-extracted around the airshaft (within the subsidence influence area) to protect from any damage from subsidence if any.	Complied: Sufficient coal pillars were left un-extracted around the airshaft (within the subsidence influence area) to protect from any damage from subsidence if any.
(iii)	Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.	Solid barriers were left below the roads falling within the blocks to avoid any damage to the roads.
(iv)	No depillaring operation shall be carried out below the village area until R&R is complete.	Complied: No depillaring operation being carried out below the village area until R&R is complete.
(v)	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/suitable material.	Being complied: (Regular monitoring of subsidence movement on the surface over and around the working area is being carried out regularly to control the impact and corrective measures are being be taken on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings . In case of observation of any high rate of subsidence movement, appropriate effective measures will be taken to avoid loss of life and material. Cracks are being covered with OB)
(vi)	While extracting panel in lower seam, all water bodies in the subsidence area shall be drained. Dewatering of the old goaves of the upper seam shall be continued as long as the lower seam is worked to prevent accumulation of large water bodies over working area.	Complied: While extracting panel in lower seam, all water bodies in the subsidence area being drained. Dewatering of the old goaves of the upper seam is being continued as long as the lower seam is worked to prevent accumulation of large water bodies over working area.

Sl. No.	Condition	Compliance Status
(vii)	Crushers at the CHP should be operated with high efficiency bag fillers, water sprinkling system should be provided to check fugitive emissions from crushing operations, overland conveyor system, haulage roads transfer points etc.	<p>Bag filters are not being provided for CHPs as the layout of CHPs are not suitable.</p> <p>However sensor activated mist spraying arrangements are made at CHPs.</p> <p>Water spraying arrangements are also made at the crushers, transfer points and along the conveyor belts to control fugitive emissions.</p> <p>Manual cleaning of Coal transport roads are being arranged regularly.</p> <p>Water spraying is being done on haul roads with Mobile water tankers.</p>
(viii)	Overland conveyor system shall be covered. Major approach road shall be metal topped.	Complied: Overland conveyor system covered with sheets. Major approach road metal topped.
(x)	Drills should be wet operated only.	Not applicable as this project is underground coal mining project
(xi)	Controlled blasting should be practiced with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.	Not applicable as this project is an underground coal mining project
(xii)	A progressive afforestation plan shall be prepared and implemented for the undisturbed area over surface where mining is being done below and shall include area brought under green belt development, along ML boundary, etc, by planting native species in consultations with the local DFO/Agriculture department. The density of trees should be around 2500 plants per ha.	Being complied. The mining area is having the central colonies for a group of mines including this project. Plantation / greenbelt have already been developed in these colonies. The details are given in point no 2 of Part-II. Plantation is also carried out in and around the existing mining areas.
(xiii)	Regular monitoring of groundwater level and quality should be carried out by establishing a net work of existing wells and construction of new peizometers. The monitoring for quantity should 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 should be submitted to the Ministry of Environment and Forests and to the Central pollution Control Board quarterly within one month of monitoring.	Being complied: Regular monitoring of groundwater level and quality are being monitored four times in a year.(the results are furnished in point 9 of part - II)
(xiv)	The Company shall put up artificial groundwater recharge measures for augmentation of ground water resource. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Being complied: Rain water harvesting structures were constructed as a part of ground water recharging measures in Ramagundam region (List given in point No. 9B of part - II.

Sl. No.	Condition	Compliance Status
(xv)	No ground water shall be used for mining operations. The company shall obtain approval of CGWA/CGWB Regional Office for use of groundwater, if any, for mining operations	Approval was obtained from State Ground water Board vide Lr.No.1499/T(1)/2005,Dated 17.03.2006.Compliance report enclosed in point No. 9C of part - II
(xvi)	ETP should be also be provided for workshop and CHP waste water to treat to prescribed norms.	Complied (EPT was constructed at workshop and CHP waste water is being treated to prescribed norms.)
(xvii)	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 subject to health check up for occupational diseases and hearing impairment, if any, through an agency such as MIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.	<p>The SCCL has well-established health centers with qualified doctors trained as per NIOH Ahmadabad guidelines (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 examined for occupational diseases and hearing impairment</p> <p>During last six months, 354 workmen were subjected to periodical health examinations and no occupational health diseases were detected among the tested persons.</p>
(xviii)	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 and 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.	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, was done on the name of the Peddapeta Shaft for the year 2019.Report prepared by Geosys Enterprise private limited ,Hyderabad.
(xix)	A final Mine closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Will be complied.
(xx)	Consent to Operate shall be obtained before starting mining operations with fulfillment of conditions imposed in NOC.	CFO is being obtained on the name of GDK 11A Incline, as the existing inclines of GDK 11A are being utilized for working Peddapet Shaft UG project.

(b).General conditions:

Sl. No	Condition	Compliance Status
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	Complied
(ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	Complied: Production details shown in Point No.1 of part – II
(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 ₂ and NO _x 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.	<p>The GDK 11 A Incline and Peddampet UG shaft project workings are vertically overlying each other hence ambient air quality monitoring is same for GDK 11 A Incline and Peddampet UG shaft project.</p> <p>All the parameters are within the prescribed limits. Analysis report is enclosed as Annexure-I.</p>
(iv)	Fugitive dust emissions (SPM and RPM) from all the sources should be controlled regularly monitored and date recorded properly. Water spraying arrangement on haul roads, wagon loading, and dump trucks (loading and unloading) points should be provided and properly maintained.	The fugitive dust emissions are being controlled by regular water spraying and cleaning of coal transport roads. Continuous water spraying arrangements are made at truck loading points, and internal coal transport roads
(v)	Data on ambient air quality (SPM, RPM, SO ₂ and NO _x) should be regularly submitted to the Ministry including its Regional Office at Bangalore and to the State Pollution Control Board and Central Pollution Control Board once in six months.	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) is being submitted to regional office, TSPCB on quarterly basis and to Regional office MoEF, Chennai on six monthly basis. The ambient air quality data monitored at seven locations during last six months period is furnished as Annexure – I.
(vi)	Adequate measures should be taken for control of noise levels below as dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc should be provided with ear plugs/muffs.	<p><u>Noise Levels</u></p> <p>The noise levels recorded at various locations during the reporting period is given in the Annexure-IV.</p> <p>Planned preventive maintenance of the Machinery is being carried out to control the emissions and Noise. Persons engaged in such operations are being provided with earplugs. Ear plugs & Dust masks were provided to the workmen during last six months period is 500 No's & 3500 No's respectively.</p>
(vii)	Industrial waste water (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 th May 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of	The mine discharge water of Peddampet Shaft property is discharged into the filter bed of GDK-11A incline. The quality of excess mine water let out on surface is tested every fortnight and results are within the permissible limits / standards prescribed by the competent authority. Water pumped out and water utilization details are furnished in Point no.3 of Part-II and monitoring results furnished in Point No. 8 of Part-

Sl. No	Condition	Compliance Status																												
	workshop effluents.	II.																												
(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.	Vehicular emissions kept under control and regularly monitored by Pit engineer. Vehicles used for transporting the coal being covered with tarpaulins and optimally loaded.																												
(x)	Personal 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. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	Complied: Personal working in dusty areas will wear protective respiratory devices and they were also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers being undertaken periodically as per mines rules to observe any contractions due to exposure to dust and to take corrective measures, if needed.																												
(xi)	A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the company.	The Environmental Management Cell has been constituted for the project with the following officers: <table border="1" data-bbox="852 898 1495 1346"> <thead> <tr> <th>S.No</th> <th>Name (S/Sri)</th> <th>Designation</th> <th>Committee</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Ch.Srinivas</td> <td>Agent</td> <td>Chairman</td> </tr> <tr> <td>02</td> <td>A.Nehru</td> <td>Colliery Manager</td> <td>Convener</td> </tr> <tr> <td>03</td> <td>B.Ramadas</td> <td>Project Engineer</td> <td>Member</td> </tr> <tr> <td>04</td> <td>K.Suresh Kumar</td> <td>Safety Officer</td> <td>Member</td> </tr> <tr> <td>05</td> <td>M.Narayana</td> <td>Senior Survey Officer</td> <td>Member</td> </tr> <tr> <td>06</td> <td>K.Venkatesh</td> <td>Mine Env.Officer</td> <td>Member</td> </tr> </tbody> </table> <p>In addition to the above, area forest officer, area environmental officer, area survey officer and area civil officer also take part in decision making, monitoring and implementation of EMP at this project.</p>	S.No	Name (S/Sri)	Designation	Committee	01	Ch.Srinivas	Agent	Chairman	02	A.Nehru	Colliery Manager	Convener	03	B.Ramadas	Project Engineer	Member	04	K.Suresh Kumar	Safety Officer	Member	05	M.Narayana	Senior Survey Officer	Member	06	K.Venkatesh	Mine Env.Officer	Member
S.No	Name (S/Sri)	Designation	Committee																											
01	Ch.Srinivas	Agent	Chairman																											
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05	M.Narayana	Senior Survey Officer	Member																											
06	K.Venkatesh	Mine Env.Officer	Member																											
(xii)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to this Ministry and its Regional Office at Bangalore.	Being complied																												
(xiii)	The Regional Office of this Ministry located at Bangalore shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	The Project authorities will certainly extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.																												

Sl. No	Condition	Compliance Status
(xiv)	A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any from whom any suggestion/ representation has been received while processing the proposal.	Complied
(xv)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office. District Industry Centre and Collector's Office/Tehsildar' Office for 30 days.	Complied
(xvi)	The project authorities should advertise at least in two local news papers 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 & Forests at http://envfor.nic.in .	Complied
3.	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Stipulated conditions will be Complied
4.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.	Agreed
5.	The above conditions will be enforced <i>inter-alia</i> , 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 and the Public Liability Insurance Act,1991 along with their amendments and Rules.	Complied (Policy no. 61360136203300000002 and period of insurance from 02.05.2020 12:00:01 AM to 01.05.2021 11:59:59 PM)