



THE SINGARENI COLLIERIES COMPANY LIMITED
(A Govt. Company)
ENVIRONMENT DEPARTMENT
RAMAGUNDAM AREA - II

Phone: 08728 – 250255
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Date: 30.11.2022.

Ref. No. RGM / ENV / 03/2022/ 321

To
The Director,
Ministry of Environment, Forests &
Climate Change (MoEF & CC),
Integrated Regional Office,
Aranya Bhavan, 3rd Floor,
Saifabad, Hyderabad – 500 004

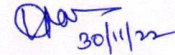
Dear Sir,

Sub: Half-yearly (From April-2022 to September-2022) Environmental Monitoring report of **GDK 9 Incline Extension Vakilpally Block-A** of S.C.Co.Ltd for the period ending on **30.09.2022** –Reg.
Ref: MoEF Lr.C.No. J-11015/29/68/LA-II, dt.14.08.1989.

With reference to the above, please find enclosed herewith the Half-yearly Environmental Monitoring report for the period ending **30.09.2022** in respect of **GDK 9 Incline Extension Vakilpally Block-A** of S.C.Co.Ltd.

Thanking You,

Yours faithfully,


30/11/22

General Manager,
Ramagundam Area-II

Copy to:
The Environmental Engineer,
T.S.Pollution Control Board,
Near Zilla parishad High School,
Jyothinagar, Ramagundam, Dist: Peddapalli,
State: Telangana - 505 215
GM (Env) Corporate office, Kgm



THE SINGARENI COLLIERIES COMPANY LIMITED
(A Government Company)
RAMAGUNDAM-II AREA
HALF YEARLY COMPLIANCE REPORT OF GDK-9 INCLINE EXTENSION
VAKILPALLY BLOCK –A ENVIRONMENTAL CLEARANCE CONDITIONS
UPTO 30th September 2022.
PART- I
Compliance Report

A. SALIENT FEATURES OF THE PROJECT:

- 1 Name of the Project : GDK-9 INCLINE Extension Vakilpally Block-A
- 2 Organization : The Singareni Collieries Company Limited
- 3 Coalfield : Godavari Valley Coal Field
- 4 Type of Mine : Underground.
- 5 Technology : With Continuous Miner, LHD & Sand stowing
- 6 Environmental Clearance :
 - A Letter No & date : J-11015/29/68/LAll, Dated: 14-08-1989
 - B Sanction capacity : 4.5 LT per Annum
 - C Mining Lease Area : 205.34 Ha.
 - D Date of Public Hearing : --
- 7 Location of the Project
 - A Village : Vakilpally
 - B Tehasil/MANDAL : Ramagiri Mandal
 - C District : Peddapalli Dist
 - D State : Telangana
 - E Latitude : Between 18⁰ 40' 30" to 18⁰ 42' 30"
 - F Longitude : Between 79⁰ 33' 20" to 79⁰ 34' 50"
 - G Topo Sheet : 56-N/10 (Plate no.1)
 - H Nearest railway station : Ramagundam (22 KM)
 - I Nearest Airport : Rajiv Gandhi International Airport, Hyd
 - J Nearest town : Godavarikhani
- 8 Address for Correspondence :
 - A Name : K. Srinivasa Reddy
 - B Designation : Agent,
 - C Address : Agent o/o, GDK 9 Incline (VKP), Post 8 Incline Colony, Dist. Peddapalli: State Telangana.
 - D Pin Code : 505 211
 - F E-mail ID : agt_gdk9_rg2@scclmines.com
 - G Telephone No. : 08728 250035
 - H Fax No. : 08728 250110
- 9 Life of the Project :
 - A Date of Opening : 02-05-1973 (GDK 9 Incline) renamed as Vakilpalli Mine
 - B Total Life of the project as per EMP : 16 years
 - C Balance Life : 5 years
- 10 Seams :
 - A Total Seams Present : 7
 - B Seams being worked : 3 Nos. (Out of which No.1 seam already

extracted by leaving the area for inspection of long wall Panels by constructing Isolation Stoppings)

In No. 3 Seam One Depillaring with Bottom Ash Stowing & One Development district with continuous miner technology.

In No.4 Seam One Depillaring in conjunction with bottom ash stowing.

11 Depth

A Minimum Depth (m)	125 M (1 seam)
B Maximum Depth (m)	365 M (4 seam)
C Present working depth (m)	260 M to 350 M

12 Reserves

A Total Geological Reserves	: 11.17 MT
B Total Extractable Reserves	: 7.1 MT
C Reserves already Extracted	: 4.718 MT
D Balance Reserves	: 2.382 MT
E Coal production during last six months	: 1,81,622 Tonnes

13 Land Requirement

A Total Requirement (Mine Take Area)	: 205.34Ha
B Non forest land	: 156.56
C. Forest land	: 48.78 Ha

14 Statutory Clearances

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A Ground Water Clearance

Ground Water Clearance is obtained vide Lr. No. 2182/HgII/2018-3 dated 26.09.2022 from Telangana State Ground water Department valid for two years.\

B Consent for Operation

: Consent For Operation was obtained vide CFO Order Lr.No. 2205236000285, dated. 23.05.2022 and it is valid up to 31/03/2027.

C Forest Clearance

Out of 205.34 ha of project area, the forest land involved in the project is 27.12 ha.

Recently forest dept., identified 21.66 ha (part of :Upparlakesaram land) of non-forest land as forest land which was acquired as non-forest land (Govt. land) during the period from 1972 to 1987 as declared by Revenue dept., at that time.

For recently identified forest land, PCCF authentication was obtained vide Lr. No

17918/2019/ FCA-1/PS, dated 07-01-2020 by seeking surface rights and an application was submitted for regularization of this forest land.

By considering the recently identified forest land of 21.66 ha, total forest land involved in the project is 48.78 ha.

Out of 48.78 ha of FL, 27.12 ha of forest land (surface rights) (part of 412.40 ha of forest land) was diverted vide stage-II FC Lr. No. F.No.8-109/2005-FC, dt.02.05.2008 and balance 21.66 ha of recently identified FL is under the process of regularization for which PCCF authentication was obtained vide Lr. No 17918/2019/ FCA-1/PS, dated 07-01-2020 by seeking surface rights.

E Mining Lease

:GO MS No.2 Energy(PR-1) Dept.,Dated:12-01-2015 (20Years)

F Others (Specify)

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PRESENT STATUS

Condition wise compliance status of EC with respect to the EC Letter No.: J.11015/29/68-IA.II, dated.14.08.1989 granted for the mine.

Specific Conditions:

Sl. No.	Condition	Compliance Status
(i)	Environmental quality data in respect of this project for the remaining seasons of the year would be mentioned and submitted to the Ministry of Environment and Forest by 31st October 1989.	<p>Being complied.</p> <p>Post project environmental monitoring is being carried out by an external laboratory i.e., EPTRI, Hyderabad which has CPCB recognition and NABL accreditation. EPTRI field lab was established in Godavarikhani for monitoring of critical parameters in the field.</p> <p>The post project environmental monitoring data is being mailed to ecompliance-tg@gov.in and hard copy to RO, TSPCB once in six months in the form of HYMR.</p> <p>Latest HYMR report was submitted vide Lr. No. RGM/ENV/03/242 , dt.31.05.2022.</p>
(ii)	The reclamation of the subsidence area would be carried out as per the plan incorporated in the EMP for this project submitted by the department, Singareni Collieries Company Ltd. Any changes proposed at later date should obtain the prior approval of this Ministry	<p>Being complied.</p> <p>The subsidence area was reclaimed as per the EMP.</p> <p>Earlier, a maximum subsidence of 1.45 m was observed in panel No. LW-2 in the year 1997 while working with long wall technology.</p> <p>The surface subsidized area was stabilized by filling the cracks with overburden material, levelled, compacted and reclaimed by taking up plantation in 20 Ha (i.e., in Subsidized area). Garland drain was made for 2.1 km length (dimensions: depth: 1 m & width: 1 m) around subsidized area after compaction, levelling and plantation.</p> <p>The cracks developed were filled up & levelled, compacted with dozer.</p> <p>So far plantation was done in 73.55 ha of mine take area by planting 97,213 nos. of saplings (including gap</p>

Sl. No.	Condition	Compliance Status
		<p>plantation).</p> <p>Avenue plantation was done for 1.00 km length along the approach road leading to 8 Inc. Colony from Vakilpalli mine.</p> <p>Further the subsidence management is being carried out as per the DGMS permissions and subsidence records are being maintained. After that no subsidence was recorded.</p>
(iii)	<p>All pollution control measures listed in the Environmental Management Plan would be strictly implemented as per schedule</p>	<p>Being complied.</p> <p>All pollution control measures listed in the Environmental Management Plan (EMP) are being implemented. The various pollution control measures being implemented are given below.</p> <ul style="list-style-type: none"> • All approach roads, coal transport road leading from mine to CHP were black topped. • All permanent roads are being repaired and tarring is being done at regular intervals. • Water sprinkling is being done along the coal transport road and water sprinkling arrangement was provided at coal loading arrangement to control dust pollution. • Height of fall was kept minimum at all coal transfer points. • Internal lining of chutes and bins was done to take care of abrasion & suppression. • Continuous water spraying arrangements are made for dust suppression. • All the trucks are being optimally loaded and completely covered by tarpaulins to avoid spillage of coal and to prevent dust pollution. Covering of trucks with tarpaulin is being ensured at SCCL check post and surprise checks are being done by security personnel at regular intervals.

Sl. No.	Condition	Compliance Status
		<ul style="list-style-type: none"> • Greenbelt was developed around the mine exhaust system to control air pollution. • Plantation was taken up in mine take area, in vacant lands of SCCL, in colony, along roads, etc., by planting native species. • So far plantation done in 73.55 ha in the project area. Avenue 3- tier plantation was also carried out for a length of 1.00 km along the approach road leading to 8 Incline Colony from Vakilpalli mine. • Mine discharge water is being allowed for adequate period in mine sump for settling of suspended solids and pumped out water is being treated in slow sand filter beds provided at mine surface. Two slow sand filter beds were provided on surface of mine (50 thousand gallons capacity each) for treating mine discharge water. • The mine discharge water is being monitored and meeting the stipulated norms. The excess treated mine discharge water after meeting the norms is being discharges into nearby tank/stream for irrigation and ground water recharge purpose. • Post project environmental monitoring is being done as per guidelines of MoEF&CC and CPCB.
(iv)	A periodic progress report regarding implementation of the control measures shall be submitted to this Ministry every six months.	<p>Being complied.</p> <p>The periodic progress report including implementation of the control measures are being mailed to ecompliance-tg@gov.in and hard copy to RO, TSPCB once in every six months in the form of HYMR.</p>
(v)	The effluent quality will conform to the standards prescribed by the Central/ State Pollution Control Board under Environment	<p>Being complied.</p> <p>The quality of effluents is being monitored and meeting the norms. Mine discharge water is being allowed for</p>

Sl. No.	Condition	Compliance Status
	<p>(Protection) Act 1986. Sufficient number of air and water quality monitoring stations will be set up for assessing measures adopted for pollution control by the company. These stations will be fixed in Consultation with State Pollution Control Board. Results of these measurements will be communicated to State Pollution Control Board once in three months.</p>	<p>adequate period in mine sump for settling of suspended solids and pumped out water is being treated in slow sand filter beds provided at mine surface.</p> <p>Two sand filter beds were provided on surface of mine (50 thousand gallons capacity each) for treating mine discharge water.</p> <p>The mine discharge water is being monitored and meeting the stipulated norms. The excess treated mine discharge water after meeting the norms is being discharges into nearby tank/stream for using irrigation and ground water recharge purpose.</p> <p>Sufficient nos. of post project environmental monitoring stations (AAQM, Noise, SW, GW, etc.) were identified in consultation with Environmental Engineer, R.O., T. S. Pollution Control Board, Ramagundam. Two nos., of AAQM stations are fixed in core zone and four nos. of AAQM stations were fixed in buffer zone.</p> <p>(Vakilpalli Mine-CA-2, Sector III Town ship-BA-2, Peddampeta Village BA-3, Dubbapalli Village BA-13 and Gunjapadugu Village BA-14)</p> <p>Annexure-1(Air, effluents & noise reports)</p> <p>SW, GW and effluents quality are being monitored and monitoring data is being submitted along with half yearly reports.</p> <p>Annexure-2</p> <p>Phreatic and Piezometric levels are being monitored on long term basis by establishing a network consisting of 8 nos. of phreatic wells and 4 nos. of piezometric wells. The latest report sent vide ref no RG-II/ENV/32/2022/298 dated 25.09.2022.</p>

Sl. No.	Condition	Compliance Status
		<p>Annexure-3</p> <p>The post project environmental monitoring data is being submitted along with half yearly reports mailed to ecompliance-tg@gov.in and hard copy to RO, TSPCB. The parameters are within the stipulated limits.</p>
(vi)	<p>Regular monitoring of various environmental quality parameters would be carried out by the project authorities and the results of the monitoring would also be included in the six-monthly progress reports to be submitted to this Ministry.</p>	<p>Being complied.</p> <p>The Post Project Environmental Monitoring is being done as per MoEF&CC and CPCB guidelines and monitoring data is being submitted along with half yearly reports mailed to ecompliance-tg@gov.in and hard copy to RO, TSPCB. The parameters are within the stipulated limits.</p>

(vii)	<p>The project will have an Environment Cell for monitoring the quality of Water, air, solid wastes, greening and other action plans for protection of environment.</p>	<p>Being complied.</p> <p>An environment cell was established at area with qualified person and staff for monitoring the quality of water, air, solid wastes, greening and other action plans for protection of environment.</p> <p>In addition to above, an Environmental Management committee (EMC) is constituted and functioning at mine for monitoring the status of compliance of conditions stipulated in EC, CFO, etc., and other action plans for protection of environment.</p> <p>The list of EMC members is given below:</p> <ol style="list-style-type: none"> 1. Project officer, Vakulpalli Mine, Chairman 2. Colliery Manager, Vakulpalli Mine, Member, 3. Safety Officer, Vakulpalli Mine, Member, 4. S.E (E&M), Vakulpalli Mine, Member 5. Survey Officer, Vakulpalli Mine, Member 6. Welfare officer., Vakulpalli Mine, Member 7. Mine Environment officer, Member <p>Area Environment Officer, Manager Forestry(RG-II Area), Area Survey Officer, Area Estates officer and Area EE (Civil) also participating in Environmental Management Committee (EMC) meeting for effective implementation of EMP of the project.</p>
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Sl. No.	Condition	Compliance Status
		<p>Further, an environmental audit cell is formulated with the following members for periodical audit of compliance of environmental conditions and EMP.</p> <ol style="list-style-type: none"> 1. Sri S. Sambaiah, SO to GM, RG -II 2. Sri V.Radha Krishna Rao, Area Engineer, 3. Sri G. Dhananjaya,DGM(Civil),RG II, 4. Sri P. Raja Reddy, SE(ENV.), RG -II. <p>An Env. Cell was also established at company level, headed by GM (Env.) reportable to Director (Planning & Projects) for monitoring the compliance of EC conditions and safeguards at company level.</p>
(viii)	Adequate financial provision will be made in the project cost to meet the expenditure for implementation of the environmental safeguard.	<p>Complied.</p> <p>An amount of Rs 68.09 lakhs was spent on implementation of the environmental safeguards, and an amount of Rs.5.91 per tonne of coal is allocated as revenue cost as per approved EMP.</p> <p>The environmental expenditure details are being furnished along with half yearly reports.</p>
(ix)	This Ministry may stipulate any other conditions as may be required in the interest of the Environment Protection.	<p>Agreed to comply.</p> <p>If any other condition is stipulated by the ministry in the interest of the Environment Protection, the mine authority will comply the same.</p>
(x)	These Conditions and safe guards will be implemented among others under the Environment (Protection) Act 1986	<p>Being complied.</p> <p>The conditions and safe guards are being implemented among others under the Environment (Protection) Act 1986.</p>
(xi)	Failure to comply with any of the conditions mentioned above would result in withdrawal of the Environmental Clearance granted here by.	<p>The conditions stipulated in Environmental Clearance granted for this mine are being complied.</p>