

**HALF YEARLY COMPLIANCE REPORT ON
ENVIRONMENTAL CLEARANCE CONDITIONS
AS ON 31st March, 2023**

**FOR 21 INCLINE UNDERGROUND COAL MINE EXPANSION PROJECT
BHADRADRI KOTHAGUDEM DISTRICT, TELANGANA STATE**



**THE SINGARENI COLLIERIES COMPANY LIMITED
(A Government Company)
YELLANDU AREA**



The Singareni Collieries Company Limited
(A Government Company)
Yellandu Area

YELLANDU- P.O 507124
Khammam Dist., A.P.
Telephone GM: 08745-240044
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Ref.: YLD/AGTUG/21 INC/0.29/85

Dt: 26-06-2023

To,
The Director,
Ministry of Environment, Forests & Climate Change (MoEF & CC),
Integrated Regional Office,
3rd Floor, Room No. 309
Aranya Bhavan, Opp:RBI
Saifabad-500004,
Hyderabad.

THROUGH
G.M, SCCL, YELLANDU AREA

Sir,

Sub: - Half-Yearly Environmental Monitoring Report of 21 Incline Mine of Yellandu Area of
S. C. Co. Ltd. - Reg.

Ref: - MoEF letter No.J-11015/930/2007-IA.II(M),Dt.27th October 2008.

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With reference to the above, please find enclosed herewith the Half-yearly Environmental Monitoring Report for the period ending 31-03-2023 in respect of No 21 Incline Mine of Yellandu Area of the Singareni Collieries Co. Ltd., Yellandu Area, Bhadrachari Kothagudem District, Telangana State

The report consists includes the status of implementation of Environmental clearance conditions and various control measures taken by us during the said half-yearly period.

Thanking You,

Yours faithfully,

AGENT
21 INCLINE,
YELLANDU AREA
AGENT
JK OC & 21 inc/YLD

Cc to: Member Secretary, TSPCB, Hyderabad.
Environmental Engineer, RO,TSPCB, Kgm.
GM(Environment), Kgm.



THE SINGARENI COLLIERIES COMPANY LIMITED
(A Government Company)
21 Incline Underground Coal Mine Expansion Project, Yellandu Area

PRESENT STATUS OF THE MINE:

The mining operations are stopped at this underground coal mine in the year 2019-20 except pumping of water through bore-wells by submersible pumps for supplying of water to nearby colonies and villages. The mine entries were closed on 26.12.2021. It is proposed to extract the balance coal reserves (standing on pillars) by opencast method by amalgamating with the adjacent JK-5 Opencast Expansion Project by utilizing its voids for dumping of OB after obtaining environmental & other related permissions.

PART-1

HALF YEARLY MONITORING REPORT FOR THE PERIOD FROM Oct-22 to Mar-23

A. SALIENT FEATURES OF THE PROJECT:

1	Name of the Project	:	21 Incline Underground Coal Mine Expansion Project
2	Organization	:	The Singareni Collieries Company Limited
3	Coalfield	:	Godavari Valley Coal field
4	Type of Mine	:	Underground Method
5	Technology	:	Conventional Bord & Pillar (Development, Depillaring) by LHDs
6	Environmental Clearance	:	
	A Letter No & date	:	J-11015/930/2007-I.II(M), dt 27.10.2008
	B Sanction capacity	:	Peak: 0.65 MTPA
	C Mining Lease Area	:	745 Ha
	D Date of Public Hearing	:	11-04-2008
7	Location of the Project	:	In Yellandu Area & Region of Bhadradi-Kothagudem District Telangana
	A Village	:	Romped
	B Tehasil	:	Yellandu
	C District	:	Bhadradi Kothagudem
	D State	:	Telangana
	E Latitude	:	North N 17 ⁰ 34' 18" to 17 ⁰ 37' 05"
	F Longitude	:	East E 80 ⁰ 17' 39" to 80 ⁰ 9' 17"
	G Topo Sheet	:	No. 65C/6
	H Nearest railway station	:	Singareni Railway Station on Dornakal
	I Nearest Airport	:	Hyderabad
	J Nearest town	:	Yellandu
8	Address for Correspondence	:	
	A Name	:	Bollam Venkateswarlu
	B Designation	:	Agent
	C Address	:	24 Area, Yellandu, Bhadradi-Kothagudem District Telangana
	D Pin Code	:	507124

	F	E-mail ID	:	Agt_jkgrp_yld@scclmines.com
	G	Telephone No.	:	08745 252093
	H	Fax No.	:	08745 240348
9		Life of the Project	:	18 Years
	A	Date of Opening		1946
	B	Total Life of the project as per EMP	:	18 years
	C	Balance Life	:	Nil (Mine closed)
10		Seams	:	
	A	Total Seams Present	:	3 (no.s)
	B	Seams being worked	:	2 Nos
11		Depth		
	A	Minimum Depth (m)		38m
	B	Maximum Depth (m)		340m
	C	Present working depth (m)		Nil (Mine closed)
12		Reserves		
	A	Total Geological Reserves	:	8.50 MT
	B	Total Extractable Reserves	:	8.50 MT
	C	Reserves already Extracted	:	3.127
	D	Balance Reserves	:	5.532
	E	Coal production during last six months	:	Nil (Mine closed)
13		Land Requirement		
	A	Total Requirement (Mine Take Area)		745Ha
	B	Forestland Involved		305Ha
	C	Non-forestland		440Ha
	D	Land acquired so far (Surface rights)		0.60Ha
14		Statutory Clearances	:	
	A	Ground Water Clearance		Lr.No 321/SCCL/2021,dt 09.03.2023
	B	Consent for Establishment	:	Ref.No.55/PCB/CFE/RO-KTM/HO/2010/620,dt 31.05.2010
	C	Consent for Operation	:	CFO order NO;17082998052 Dated;03.01.2018 Valid upto 31.12.2022
	D	Forest Clearance	:	MoEF Lr No 8-260/85 Fry(Cons) dtd: 07.10.1986 GoMS No: 5 Energy (PRI) Dept. 20 years from 1.1.2015 to 31.12.2034
	E	Mining Lease	:	GOMS.NO,134, dt 16.10.2008.
	F	Others (Specify)		Nil
15		R & R Involved	:	Not Involved

B. CONDITION WISE COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE OF 21 Incline Underground Coal Mine Expansion Project:

The conditions stipulated in Environmental Clearance i.e. EC. No: J-11015/930/2007-I.II(M), dt 27.10.2008 were complied when mine was in operation and condition wise compliance status reports along with Post Project Env. Monitoring data was submitted on half yearly basis to MoEF & CC, IRO.

It is proposed to extract the balance reserves of the mine through opencast method for which the Mining Plan including the Mine Closure Plan of Jawahar Khani Opencast Mine [Amalgamation of JK-5 OC and 21 Incline (Conversion to OC)] was approved by Ministry of Coal, GoI. The details of the final mine closure activities of 21 incline are addressed in that plan and the same will be submitted to MoEF&CC.

For depositing the corpus fund for mine closure activities, Escrow account was opened for 21 Incline (A/C No.37624458903) and deposited principal amount Rs. 3.668 Cr up to 31.03.2020 and submitted the annual returns to CCO up to 31.03.2020 pending approval of FMCP.

C. PLANTATION DETAILS UPTO March, 2023

A total plantation of 108 Ha was done in the mine so far.

PART – II

Post project environmental monitoring data & other reports of 21 Incline UG Coal Mine Expansion Project for the period from October-22 to March-23

1. Production Details

Sl. No	Year	Coal (in MT)	
		As per EC	Actual
1	2007-08	0.65	0.518
2	2008-09	0.65	0.530
3	2009-10	0.65	0.374
4	2010-11	0.65	0.391
5	2011-12	0.65	0.390
6	2012-13	0.65	0.332
7	2013-14	0.65	0.316
8	2014-15	0.65	0.201
9	2015-16	0.65	0.203
10	2016-17	0.65	0.179
11	2017-18	0.65	0.064
12	2018-19	0.65	0.036
13	2019-20	0.65	Nil
14	2020-21 (Mine Closed)	0.65	Nil
15	2021-22 (Mine Closed)	0.65	Nil
16	2022-23 (Mine Closed)	0.62	Nil

2. Plantation:

A total plantation of 108 Ha was done in the mine so far.

3. Water Balance Statement:

About 4032 KLD of water is being pumped out through bore-wells by submersible pumps and the same is being supplied to nearby colonies and villages.

4. Summary of monthly Micro-Meteorological data generated

Month	Wind Speed (m/s)			Temperature (°C)			Relative Humidity (%)			Rainfall (mm)	
	Mean	Max	Calm %	Mean	Max	Min	Mean	Max	Min	Total	Hourly highest
October, 2022	2.4	9.0	22.85	26.6	36.3	16.2	69.9	99.7	19.0	54.0	11.9
November, 2022	3.3	5.7	6.94	26.9	35.6	16.2	65.3	95.9	19.0	2.3	0.5
December, 2022	2.4	8.0	18.55	22.6	29.1	15.8	64.9	95.9	19.0	3.7	2.1
January, 2023	2.7	8.0	15.73	22.9	35.7	11.2	62.7	97.1	9.4	0.0	0.0
February, 2023	2.4	7.0	12.65	27.0	39.1	17.3	63.4	99.6	11.2	2.9	1.7
March, 2023	1.7	5.6	29.57	29.9	41.8	16.4	51.9	96.2	8.5	89.4	25.0

Summary of Micro-Meteorological data generated for the entire study period (October, 2022 – March, 2023)

S.No	Parameter (s)	Min	Max	Mean
1.	Temperature (°C)	11.2	41.8	26.0
2.	Wind Speed (m/s)	Calm 17.86%	9.0	2.5
3.	Relative Humidity (%)	8.5	99.7	63.0
4.	Predominant Wind direction for the study period	North (N), followed by South West (SW)		
5.	Total Rainfall (mm)	152.3mm		

5. Ambient Air Quality Monitoring

Ambient Air Quality at Osman Pit- Core Zone

Period of Monitoring : October 2022 – March 2023 Sampling : 24hrs period

S.No.	Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
Coal mine standards, GSR 742(E), Dated 25.09.2000		250	-	120	120
1.	03.10.2022	77	23.7	9.5	14.3
2.	17.10.2022	81	24.1	9.0	14.6
3.	02.11.2022	78	25.7	9.9	15.1
4.	17.11.2022	77	23.8	9.3	15.1
5.	02.12.2022	75	24.8	10.2	14.6
6.	19.12.2022	80	24.5	9.0	14.5
7.	02.01.2023	81	24.2	10.5	14.9
8.	19.01.2023	83	26.1	10.1	14.8
9.	02.02.2023	87	25.2	10.7	15.3
10.	17.02.2023	85	25.8	10.3	14.6
11.	02.03.2023	78	25.3	10.5	15.1
12.	19.03.2023	72	24.4	10.1	14.5
MIN		72.0	23.7	9.0	14.3
MAX		87.0	26.1	10.7	15.3
AVERAGE		79.5	24.8	9.9	14.8
PERCENTILE		86.6	26.0	10.7	15.3


Ambient Air Quality at Yellandu Town - Buffer Zone

Period of Monitoring : October 2022 – March 2023 Sampling : 24hrs period

S.No.	Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
NAAQ Standards, CPCB, Dated 18.11.2009		100	60	80	80
1.	04.10.2022	58	21.4	8.4	13.8
2.	18.10.2022	61	21.3	9.2	14.5
3.	03.11.2022	55	21.1	9.6	14.9
4.	18.11.2022	52	20.4	9.7	14.7
5.	03.12.2022	51	21.3	9.1	13.9
6.	20.12.2022	58	21.1	9.2	14.5
7.	03.01.2023	55	21.7	9.2	14.1
8.	20.01.2023	53	20.3	9.5	14.4
9.	03.02.2023	57	21.8	9.5	14.3
10.	18.02.2023	55	20.8	9.1	14.2
11.	03.03.2023	62	22.5	9.3	14.6
12.	20.03.2023	53	20.3	8.9	14.4
MIN		51.0	20.3	8.4	13.8
MAX		62.0	22.5	9.7	14.9
AVERAGE		55.8	21.2	9.2	14.4
PERCENTILE		61.8	22.3	9.7	14.9

6. Phreatic surface monitoring: (Range of Water Table) ATTITUDE OF PHREATIC SURFACE IN GODAVARI VALLEY COALFIELD Area: No. 21 Incline Yellandu

Name of the Village and distance from Mine	Location	Owners' Name	Type of Well	Dimensions (m)	Total Depth(m)	Geology	Measuring Point	Period	Depth to water (m)		
									2020	2021	2022
No.21 Incline Pathapusapalli 2.00 km	Village entrance 17°36'49.43", 80°17'16.61"/Near nala	D.Lakshmaiah	public well	4/100	5.50	Barakar Fm.	0.20	Winter	2.73	2.43	2.40
								Pre-monsoon	4.10	3.24	3.00
								Monsoon	1.85	2.08	
								Post-monsoon	2.22	2.18	
No.21 Incline Pathapusapalli 2.00,km	Opp School 17°36'50.77", 80°17'7.96"	Puli veeranna	Domestic	1.00	6.00	Barakar Fm.	0.35	Winter	4.02	3.75	3.50
								Pre-monsoon	6.00	4.62	5.00
								Monsoon	1.80	2.38	
								Post-monsoon	2.82	2.58	
No.21 Incline Rompedu 2.5km	Gundala Pakhala jn. 17°38'33.09", 80°17'50.48"	Govt Well	Domestic	1.75	9.00	Pakhhal Fm.	0.60	Winter	2.97	1.56	1.30
								Pre-monsoon	7.20	4.58	2.50
								Monsoon	0.90	0.80	
								Post-monsoon	0.96	1.00	
No.21 Incline Yellandu 0.2km	Opp Peddamma temple Gundala road 17°36'17.57", 80°18'56.48"	D. Seshaiyah	Domestic	1.00	9.10	Barakar Fm.	0.45	Winter	2.49	2.38	2.24
								Pre-monsoon	4.10	3.53	3.45
								Monsoon	0.95	1.51	
								Post-monsoon	1.71	1.60	


 AGENT
 No. 21 Incline UG Mine,
 SCCL, Yellandu Area.
 AGENT
 JK OC & 21 INC/YLD