

PART – II

**A PERIODIC PROGRESS REPORT REGARDING ENVIRONMENTAL PROTECTION
MEASURES TILL 30.09.2023**

1. Production Details:

Sl. No	Year	Coal (in MTPA)	
		As per EC	Actual
1	2008-09	1.167	0.051
2	2009-10	1.167	0.014
3	2010-11	1.167	0.041
4	2011-12	1.167	0.068
5	2012-13	1.167	0.064
6	2013-14	1.167	0.062
7	2014-15	1.167	0.084
8	2015-16	1.167	0.100
9	2016-17	1.167	0.043
10	2017-18	1.167	0.110
11	2018-19	1.167	0.090
12	2019-20	1.167	0.091
13	2020-21	1.167	0.132
14	2021-22	1.167	0.093
15	2022-23	1.167	0.068
16	2023-24 (Up to Sept 2023)	1.167	0.031

2. Plantation:

1	No of plants planted during last six months / last year	Nil
2	Area covered in Ha	Nil
3	Expenditure incurred in Rs.lakhs	Nil
4	Total area brought under plantation so far in Ha	76.00
5	Total no of plants planted so far since inception	94200
6	Species of plants planted	Clones and mixed with native species
7	Total expenditure in Rs. lakhs -	122.45

Note: Plan along with details of year wise plantation furnished.

3. Water Balance Statement:

Sl. No.	Description	Quantity in KLD
1	Average quantity of water pumped out of the mine	7315
2	Water used for drinking/bathing and other industrial requirement	250
3	Water used for washing of HEMM	-----
4	Water used for plantation	165
5	Water supplied for nearest township/village for domestic purpose	5500
6	Excess water let out	1400
7	Point of discharge (as per CFO)	On land for irrigation/dust suppression
8	Discharge as per Consent from APPCB	Mine discharge water after treatment: 1000 KLD Domestic Wastewater:

4. Micro-meteorological Monitoring:

Micro-meteorological station was installed on the top of GM's office, Mandamarri. The summary of the monitoring from 01.14.2023 to 30.09.2023 as follows:

S.No	Parameter (s)	Min	Max	Mean
1.	Temperature (°C)	23.2	45.8	30.1
2.	Wind Speed (m/s)	Calm (%) 12.77	6.7	2.3
3.	Relative Humidity (%)	18.7	98.0	67.3
4.	Predominant Wind direction for the study period	South West (SW), followed by South- South West (S-SW)		
5.	Total Rainfall (mm)	578.4mm		

5. Air Pollution Control Measures:

- Adequate water spraying arrangements have been made at all working coal faces and galleries. Water spraying is regularly done at loading and unloading places of tipplers and bunkers at pit head on surface
- Water spraying is regularly done by tractor mounted water tanker exclusively engaged to serve the purpose.
- As on now 76.00 ha of Block plantation is done. Avenue plantation is also done along the coal transport road.
- Coal trucks are being covered with tarpaulins for preventing spillage
- The underground workings of the mine are well ventilated by adequate ventilation arrangements. The requirements and standards specified in this regard by Director General of Mines Safety (DGMS)

6. Surface Water Quality Monitoring:

Monitoring Data: The summary of the monitoring from 01.04.2023 to 30.09.2023 is enclosed as **Annexure-4**

7. Groundwater Quality Monitoring:

Monitoring Data: The summary of the monitoring from 01.04.2023 to 30.09.2023 is enclosed as **Annexure-5**

8. Phreatic surface monitoring: (Range of Water Table): The summary of the monitoring from April-2023 to September-2023 is enclosed as **Annexure-6**

9. Water Pollution Control Measures:

- The mine discharge water, which may contain coal fines, needs sedimentation, before discharge into the natural water course / open land. The treatment

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facilities such as sedimentation, filtration and chlorination was provided for mine discharges, so as to conform to the effluent standards as prescribed by MoEF.

- The effluents from service building is being collecting by a sewage system and treatment by means of septic tanks and soak pits. Sewage is discharging after treatment.
- Sewage is being treated in septic tank followed by soak pit for existing townships in Mandamarri Area.

10. Noise Pollution Control Measures:

- The main mechanical ventilator (MV Fan) is provided with evasee which dampens the noise.
- Height of fall has minimized at all coal transfer points and internal lining of bins and chutes were provided.
- Where the high noise intensity working areas / zones earmuffs and earplugs is being providing to the workmen.
- Regular noise level monitoring is being carrying periodically.
- Management of manpower working in high noise level areas such that the assignment is distributed amongst more persons thereby reducing individual exposure to high noise level to fewer hours in a shift and maintaining equivalent noise level exposure a shift is being complied.
- Extensive plantation of green belt and vegetation along the roads and around the offices to create a barrier and screen between the source and the receiver noise is absorbed and the exposure level is minimized.

11. Revenue Expenditure incurred on Environment Management and Pollution Control Measures:

The Expenditure incurred from April-2023 to September-2023 as follows

Sl. No	Description	Expenditure (In Rs:)
1	Air Pollution Prevention & Control measures (including free Gas supply of workers)	773800
2	Water Pollution Prevention & Control measures	1439836
3	Plantation	279187
4	Water spraying arrangements	50533
5	Water Cess	-
7	CFO fee	-
	Total:	2543356

12. Socio-economic Measures:

- i). A common central township is provided on a non coal bearing area and it is maintained with such facilities like dispensary, schools, drinking water supply, market place, recreation clubs, Parks, well lighted approach roads and play ground, dust bins etc., at various places in the colony and it is away from mining activity. Sulabh Complexes are constructed in and around mining colonies in addition to individual toilets provided in quarters.
- ii). Existing no of quarters in Mandamarri Area : 8098
- iii). Workers are being educated about the importance of family planning and an incentive of Rupees 220.00 for ladies & Rs: 150.00 for gents along with 6 days leave is being given as encouragement.
- iv). Arrangements are being made for giving vaccination to children and adults to protect from diseases and steps are taken to eliminate / control Malaria under effective supervision of Health Officer.
- v). All necessary steps are being taken for improving general sanitation of Township/Colony under effective supervision of Health Officer.
- vi). Sports and games are being conducted for workmen and also in the surrounding villages regularly.
- vii). Greenery is being developed in the existing colonies and also avenue plantation along the roads of surrounding villages.
- viii)
 - a). Planting has been done in 70.00 ha with 165700 number of seedlings.
 - b). 84500 fruit bearing plants were disturbed to surrounding villages and to other departments during 2021 monsoon season.
- ix) **Similarly as part of Haritha haram:**
 - 500 nos saplings are planted at Muthyampalli village, Kasipet Mandal.
 - 201463 nos of fruit bearing saplings are planted on 26.09.2020 and 17.02.2021 at monkeys food court at KK-5 mine premises.
 - 2 nos solar power plants has been installed at Mandamarri area. 1 no 15MW capacity solar power plant (MMR-II) synchronized with TS Transco at Muthyampalli village, Kasipet Mandal, Mancherial district near Kasipet mine on 08.04.2021.
 - 1 no 28 MW capacity solar power plant (MMR-I) synchronized with TS Transco at Mandamarri town, Mancherial district near Kalyan khani no.5 incline on 17.04.2021. **Welfare measures:** New canteens constructed and inaugurated during the year at Shantikhani Longwall project and Kasipeta-2 Underground Mine Project.

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- Installed RO plants at all the mines and departments for supply of purified and hygienic mineral water to all employees.
 - Ayurvedic medical camps conducted for benefit of the employees and their family members.
 - CPRMS-NE: Health cards issued to Ex Employees -3901.
 - HBLIRS availed by 461 employees.
 - Swachta Maha & Swachta hi seva 2021, “Swatchatah Pakhwada,” “Swachta hi seva” “Haritha Haram” programmes conducted.
 - 2100 persons were donated BLOOD at MVTC, Mandamarri area since 2019.
 - Conducted World Yoga Day programme at SCH grounds and other schools of Mandamarri on 21.06.2019 with involvement of 12,141 persons.
 - Conducted CIL Athletic meet wherein 10 companies participated in the event.
 - SEVA ACTIVITIES; Training given to 9000 persons in various works like Tailoring, Beautician, Maggam works, DCA course, motor driving, Security guard training, Army Training, Volvo driving training etc since starting of seva activities in the company .
- As in the part of welfare measures – civil repairs are being taken up regularly for the benefit of employees, as well to the common public.
- Avenue plantation done in KKOC mine premises (2.5 km) -1000 nos and Kasipet-2 approach road (2.5km) -1733 nos.
- As per Govt. of India, circular **Bharath Ka Amruth Mahotsav** programmes were conducted on the following topics.
- a). Fruit bearing plants were distributed to the neighbouring villages Yerraguntapalli and Mamidigudem on 20.10.2021.
 - b). 500 nos Jute bags were distributed to the employees on 20.01.2022.
 - c). General awareness programme was conducted on “Plastic waste Management” on 10.02.2022

a). Various training programmes have conducted for unemployed surrounding village people and the details as follow:-

SI No	Course	Location	Centre	No of persons
1	Computer DCA course	Mandamarri	Maya computer centre	20
2	Motor Driving (LMV)	SRR Motors, Mandamarri	Jendavenkatapur	40
		Dubbagudem	Dubbagudem	
		Mamidigattu	Mamidigattu	
		Sravanpalli	Sravanpalli	
		Adilpet	Adilpet	
		Sarangapalli	Sarangapalli	
		Erraguntapalli	Erraguntapalli	
		Dubbagudem	Dubbagudem	
3	Tailoring	Ramakrishnapur	Ramakrishnapur	25
		Mandamarri	Mandamarri	28
		Yapal	Yapal	34
		Kasipet & Somagudem	Kasipet & Somagudem	25
4	Beautician	Ramakrishnapur	Ramakrishnapur	25
		Mandamarri	Mandamarri	25
		Yapal	Yapal	25
		Bellampalli	Bellampalli	20
5	Fashion designing course	Ramakrishnapur	Ramakrishnapur	20
		Mandamarri	Mandamarri	25
		Yapal	Yapal	25
		Bellampalli	Bellampalli	25
6	Meggam work course	Ramakrishnapur	Ramakrishnapur	28
		Mandamarri	Mandamarri	28
		Yapal	Yapal	40
		Bellampalli	Bellampalli	25
			Total:	473

b). Training given to project affected people:

S. No	Project affected peoples	Vocational course	No of students
1	Adilpet village (Sravanpalli OCP)	Tailoring course	22
2	Amarawadi, Sheshapelli, Doragaripalli & Kyatanpalli (RKPOCP)	Tailoring course	60
3	Lambadi thanda, Dubbagudem	Tailoring course	25
4	Akenapalli (KKOCP)	Tailoring course	25
5	Mamidigattu (Sravanpalli OCP)	Fashion designing	30

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6	Mamidigattu, Kasipet & Muthyampalli (KKOCP)	Beautician	60
7	Mamidigattu, Dubbagudem, Amaravadi & RK-4 gadda (KKOCP, RKOCP & Sravanpalli OCP)	Computer DCA	40
8	Jendavenkatapur, Dubbagudem, Mamidigattu, Sravanpalli, Adilpet, Sarangapalli & Erraguntapalli.	LMV (Driving)	60
9	All Mining Projects, Mandamarri	Army training	51
Total:			373

- c). Bags were distributed in the colonies for collecting paper and plastic waste which is being sent for recycling regularly.
- d). **To encourage unemployed youth on Entrepreneurs Development Programme for establishment of Ancillary units and from which the products are being utilized in mines and departments and the details are as follow:**

Presently, 13 new entrepreneurs were selected for establish new ancillary units i.e. BPA-3, MM-5 and SRP- 05

Entrepreneur Development Programme was conducted to these 14 candidates from 4th June to 14th June 2012 at Yellandu Club, Mandamarri jointly by the Centurion University, Khadi Gramodyog Vidyalay and Officials from Singareni collieries Co Ltd.,

The units proposed are: Roof bolts – 4 persons, motor winding works – 1, House wiring – 3, GI Canisters – 1, Dog nails, bolts & nuts – 1, Fish plates – 1, Fabrication – 2, GI Wire items – 1

Out of these 14 persons, 13 have applied for loan through Prime Minister's Employment Generation Programme as detailed Below:

For Rs 25 lakh	:	4 persons
For Rs 20 lakh	:	1 person
For Rs 10 lakh	:	2 persons
For Rs 7 lakh	:	1 person
For Rs 1 lakh	:	5 persons

All the above 13 candidates obtained Vendor codes from SCCo.Ltd., and got their proposed firms registration. SCCL had given tenders of order value of Rs.13.43 crores to the Ancillary units during 2017-18.

Singareni Sewa Samithi course List 2023-24
(April-2023 to September-2023)

Sl.No	Name of course	Location	Strength
TAILORING			
01		PH colony	25
02		RKP	25
03		Yapal	25
04		Somagudem	25
BEAUTICIAN			
01		RKP	25
02		MM (Yoga hall)	25
FASHION DESIGNING			
01		RKP	25

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02		Yapal	25
03		SCHS ground, MM	25
MAGGAM WORK			
01		RKP	20
02		Adilpet	26
03		Yapal	25
04		Peddanapalli	25
Total:			321

Singareni Sewa Samithi course List 2023-24
(April-2023 to September-2023)

SI.No	Name of Course	Location of Centre	No of persons
TAILORING			
01		PH colony	20
02		RKP	19
03		Yapal	26
BEAUTICIAN			
01		RKP	21
02		MM (Yoga hall)	20
FASHION DESIGNING			
01		RKP	20
02		Yapal	21
03		SCHS ground,MM	20
MAGGAM WORK			
01		RKP	20
02		Adilpet	24
03		Yapal	17
04		Peddana pelli	25
Total:			253

13. Development activities (CSR) under SHAPE Programme in the surrounding villages from 2003-04 to 2008-09:

- a). Towards school building and compound : 21.80 lakhs
- b). Towards drinking water in the surrounding villages (namely Mandamarri, Amaravadi, Kurmapalli, Kasipet and Muthyam palli etc) for bore holes, overhead tanks and pipe lines : 24.50 Lakhs
- c). Towards BT, CC roads, drainages, bridges & street lighting : 498.25 Lakhs
- Total : 544.55 Lakhs**

CSR works for the year 2014-15

S. No.	Description of the work	Amount in Lakhs
1	Miscellaneous civil works to police station building to accommodate CI office room	2.90
2	Drilling of bore holes including fixing of hand pumps under CSR at MM area	2.77
3	White washing and coloring works to police station building at MM area	1.60
4	M&R works to police station building at RKP	1.10
5	Providing dust bins and iron gates to project affected villages of KKOC and sravanapalli OC at Mandamarri area	2.86
6	Providing pipe culvert at Mamidigattu Mandamarri area	2.94
	Total Amount:	14.17

CSR works for the year 2015-16 to 16-17

S. No	Description of the work	Amount in Lakhs
1	Towards CC road and metal road	111.30
2	Towards CC drains	41.00
3	Drilling of bore holes	45.74
4	Construction of overhead tank	30.00
	Total:	228.04

CSR activities taken up during 2017-18

- 1) **Similarly, during the year 2017-18 the following works are being taken up:**
 - An amount of Rs.189.64 lakhs for CC Drains & development of roads
 - An amount of Rs.60 Lakhs allotted for widening of roads & Central lighting system.

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- Hand Pumps worth Rs.17 Lakhs
 - Construction of Public Toilets worth Rs.19.37 Lakhs and in Bellampalli Town
 - An amount of Rs.162.90 lakhs for CC Drains & Roads
 - An amount of Rs.100.00 Lakhs for construction of Ambedkar Building
- 2) On 04.02.2018, a mega medical camp was organized at Saranga Palli Village with medical specialists and medical tests were conducted for nearly 1200 persons and necessary treatment was extended for identified persons. In the coming days also, medical camps will be organized in the project affected villages. 81 persons were identified for cataract surgery which will be done at free of cost.
 - 3) Rs.14.55 & Rs.13.44 Crores valuable orders were given to the ancillary units set up by 13 unemployed youth during the years 2016-17 and 2017-18 respectively.
 - 4) Company has supplied 55 nos. benches to the schools of nearby villages.
 - 5) 14 Unemployed youth were given training in Volvo Truck driving at Bengaluru.
 - 6) 87 persons were given training for Army Recruitment.
 - 7) Specialized training session has been given to 25 Female & 30 Male unemployed youth so far for police recruitment.
 - 8) SCCL authorities have already deposited with District Collector, Mancherial around Rs.215 Crores (from January, 2016 to March, 2018 under D.M.F (District Mineral Foundation) Trust, which will be spent for developments and upliftment of surrounding villages.

CSR works for the year 2018-19

- 1) Providing second toilet complex at Shanthinagar colony, RK-4 –gadda, RKP, MM area : 9.31
- 2) Drilling of 8 nos bore wells wih hand pumps to surrounding villages of proposed Kalyanikhani-6 inc project, MM Area. : 2.79
- 3) Development works in surrounding habitations of SCCL areas of Bellampalli and Mm area under SHAPE-11-12 programme : 6.71
- 4) Providing development works at Mandamarri and it surrounding Villages under CSR programme : 13.827
- 5) Infrastructure development works (laying of Roads and construction of Drains etc.) in the surrounding areas of Mandamarri area, Mancherial District : 50.876

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- 6) laying of CC roads and Drains at Kasipet GP in Mancherial District Works sanctioned under CSR.- **Under Corporate Social Responsibility activities (CSR)** : 56.39
- 7) Providing infrastructure to Central Nursery at Patha Bellampally, Mancherial district : 15.50
- 8) Infrastructure development works in Urban areas such as Development of KCR park at Mandamarri town (orregadda) of Mandamarri Mandal –Mancherial dist. : 200.00

CSR works for the year 2019-20:

- 1) Development works such as laying CC/BT roads construction of open GYM, providing Hy-mast solar light planting trees Bellampalli Assembly constituency. : 200.00
- 2) Construction of integrated market at Chennur Municipality of Chennur Assembly constituency. : 150.00

CSR works for the year 2021-22:

1. Construction of class rooms and toilet blocks at ZPS School at Orregadda, Mandamarri of Chennur constituency, certain balance works to park at Bellampalli Muncipal limits. : 100.00

CSR works for the year 2022-23:

- Insall CCTV camers in Mandamarri Area for the safety and Security of women/public in Mancherial-Dist. : 10.00
 Note no MMR/GMO/G/006/2022/983/5 dt 21.11.2022

Mobile medical camps conducted in nearby villages and the details are as below:

Aspect	No.of Programmes	No of Beneficiaries
Medical Camps	2	1300
Mobile Medical Services	1	100
School Health Programmes	7	750
Health Awareness Programmes	15	1600

14. MINUTES OF THE ENVIRONMENTAL COMMITTEE MEETING

Environmental committee meeting of SKLW Mine held on 26.09.2023 under the Chairmanship of Shri A.Rajeswar Reddy, SO to GM, Mandamarri Area and the following executives were attended.

Sl. No.	Name S/Sri	Designation	Administrative set up
1	A.Rajeswar Reddy	SO To GM	Chairman
2	R.Vijaya Prasad	Project Officer	Member
3	Sanjay Kumar Sinha	Project Manager	Member
4	J.Naga Raju	Area Engineer(E&M)	Member
5	D.Srinivasulu	Area Engineer(Civil)	Member
6	Ujjwal Bandopadyaya	Area survey officer	Member
7	P.Prabhaker	Area Environmental officer	Secretary
8	R.V.Ramana Reddy	Area Forest officer	Member
9	B.Venkanna	Sr.Hydro geologist	Member
10	J.Kumara Swamy	Area Estates Officer	Member
11	B.Rambabu	Project Engineer	Member
12	Purna	Project Environmental Officer	Member
13	U.Ramesh	Project Survey Officer	Member

At outset, Area Environmental Officer briefed about each condition imposed in Environmental Clearance and for every condition present status reviewed and the ATR vs responsibility of the executive is being furnished as under.

Minutes of the Meeting

Specific conditions:

S.No	EC condition	Actual to be taken	Responsibility
1	(iv) The Project authorities should check the possibility of existence of fault(s) before deciding about the thickness	The precautions, regarding the underground inundation to be strictly	Sr.Sanjay Kumar Sinha Project Manager

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	of safe barrier required to be maintained between the working face and the water body in consultation with the Director General Mines & Safety (DGMS). Depillaring should also be carried out after taking prior approval of the DGMS.	implemented. The faults near to be identified and the safe barrier to be left against the water body as per CMR, 2017 and the DMGS circulars.	Sri.U.Ramesh Project Survey Officer
2	(x) The project authorities should meet the water requirement of nearby village(s) in case the village wells go dry due to de-watering of the mine.	Regular monitoring of phreatic surface of the area in nearby village well of the project to be monitored.	Sri.B.Venkanna Sr.Hydro geologist
3	(xiii) Permission from the competent authority should be obtained for drawl of water for drinking/domestic use.	As per the new guidelines issued in the year 2020 by the CGWA, the ground water clearance should be obtained.	Sri.P.Prabhaker Area Environmental Officer
4	(xv) Coal handling plant should be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	The dust suppression arrangement at the mine and at RKP CHP to be maintained properly.	Sr.Sanjay Kumar Sinha Project Manager Sri.J.Naga Raju Area Engineer(E&M)

General Conditions:

S.No	EC condition	Actual to be taken	Responsibility
5	(v) Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, loading and unloading points should be provided and properly maintained.	Water spraying arrangements to be done effectively.	Sr.Sanjay Kumar Sinha Project Manager Sri.J.Naga Raju Area Engineer(E&M)
6	(viii) Measures for safety should be provided for storage, handling and use of explosive during the Project period.	All the precautions to be taken during the storage transport and usage of explosive as per CMR, 2017 and the DGMS circulars.	Sr.Sanjay Kumar Sinha Project Manager

MoEF & CC O.M.No.22-34/2018-IA.III, dated:16.01.2020.

S.No	EC condition	Actual to be taken	Responsibility
7	“The mining lease holders shall, after ceasing mining operations, undertake regressing 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.”	At the end of mining operations, the mining areas and other areas which were disturbed due to mining will be regrass and restored to the land to a condition which is fit for growth of fodder, flora, fauna etc.	Sr.Sanjay Kumar Sinha Project Manager

The compliance of Groundwater Clearance

Sl. No.	Condition	Compliance
1	Periodical monitoring of Ground water levels and quality (every month) and quality (twice a year i.e., during pre and post monsoon periods) should be taken by constructing Peizometers and through existing observation wells and report sent to the Deputy Director, Ground water Department, Nirmal, Adilabad District regularly.	It is being complied and the report of the same submitted to Dy Director, TS Ground Water Dept., Mancherial vide Ir no MMR/ENV/G-5/2019/141 ,Date 10.10.2019.
2.	Rain water harvesting structures should be taken up in all the villages within the radius of 10 km of the project area.	For construction of Fresh Rain water harvesting structures, new proposals have been initiated.
3	Provisions should be made to maintain the present use/supply of ground water in and around the Project Area and also it's restoration due to any adverse effects as a result of mining in future.	The excess mine water of 1250 Kilo Liters per Day is being regularly discharged in to Lingapur tank after proper treatment and thus the nearby villages of Lingapur, Akenapelli and Patha Bellampalli village people are benefited by utilizing the water for their Agricultural activities.
3.	Afforestation in surrounding areas should be taken up.	Plantation in an extent of 76 Ha in SK Long wall project mine take area has been taken up besides the total Block Plantation of 884 Ha was carried in the outside mine take area but within the mining lease covering townships etc.

15. Environmental Public Hearing Minutes Vs Response/Commitment of Project Proponents

And Present Status

Date of Public Hearing Conducted: 31-07-2004 (11.00 AM)

Venue: Gram Panchayath Office, Batwanpalli Village, Bellampalli (Mandal),

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Mancherial (District), Telangana State

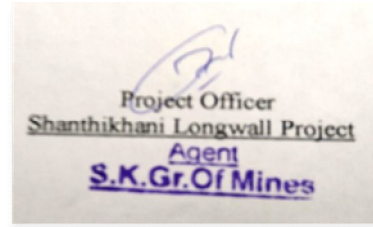
Sl. No.	Issue raised by the public	Present status
1	<p>Sri E. Venkata Rama Rao, Sarpanch, Akenepalli While welcoming the project brought the issue of subsidence of land due to old SK-II mine. He alleged that depillaring below the village and the Lingapur tank affected the land that resulted in depletion of water due to seepage. He expressed similar apprehensions over the new project proposed in the vicinity of Akenepalli and three other villages. He suggested that the SCCL to divert the water pumped out from the proposed project to the near by Lingapur & Batwanpalli irrigation tanks. He also requested that the SCCL to lay 10 KM BT road from Akenepalli to Mandamarri for use of SCCL employees and others to reach their work places.</p>	<ul style="list-style-type: none"> • Presently there is no depillaring activity and regular monitoring of surface area is being done. • Mine discharge water of 1250 KLD is being diverted to Lingapur tank for agriculture purpose. • 6000 KLD for drinking water for colony and Bellampalli township • Remaining 1300 KLD discharge water is also diverted to nallah No. 2 for agriculture purpose by near villages. • 10 KM BT road from Akenapalli to Mandamarri for use of SCCL employees and others to reach their work places.
2	<p>Sri Bolisetti Shanker, Sarpanch, Perkapalli, expressed apprehension due to project of SCCL in the area especially with regard to the Mango Orchards and Paddy fields. He sought compensation for any damage resulted due to the proposed mining operation. He requested the SCCL to lay BT roads in the villages. While welcoming the proposed new project, he requested the SCCL to open some more new mines in the area to bring back the employees who were transferred to other areas due to closure of mines. This would also help in increasing their opportunities to sell the agriculture product to the people employed in the mines.</p>	<ul style="list-style-type: none"> • At present, there is no affect for mango orchards and paddy fields. 8 km length of BT road laid from Bellampalli to Perkapalli with SHAPE funds. • SCCL is opened Kasipeta -2 Incline new mine and posted with local employees.
3	<p>Sri Singati Peddanna, Sr.Citizen, resident of Batwanpalli Village expressed apprehensions over depletion of water table which would affect the agricultural operations in the surrounding villages. He wanted drilling of bore wells per every 10 acres of cultivated land to overcome the impact due to mining operations. He sought provision for infrastructure in the villages.</p>	<p>Drinking water bore wells were provided as follows:</p> <ul style="list-style-type: none"> • Batwanpalli: 2 • Perkapalli : 3 • Lingapur : 3 • Akenapalli : 4 • SC colony : 2 • Pochamma temple : 1
4	<p>Sri Thongala Satyanarayana ZPTC, Bellampalli, while welcoming the project, enumerated the advantages and disadvantages of the project. He stated that local people would be benefited by the proposed project as the project would generate direct and indirect employment to the</p>	<ul style="list-style-type: none"> • CC road provided at Perkapalli, BT road at Akenapalli. • Employment provided in shaft sinking operations for nearby villagers by M/s Teknomin Construction Ltd.

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Sl. No.	Issue raised by the public	Present status								
	<p>local people. He sought provision of water for agricultural purposes. He also pleaded for compensation to the affected persons of Chopparipalli village whose houses were affected due to subsidence. He also requested the SCCL to lay CC road and drains in all the villages which would be affected.</p>	<table border="1"> <tr> <td>Batwanpalli</td> <td>8</td> </tr> <tr> <td>Perkapalli</td> <td>16</td> </tr> <tr> <td>Lingapur</td> <td>33</td> </tr> <tr> <td>Akenapalli</td> <td>12</td> </tr> </table>	Batwanpalli	8	Perkapalli	16	Lingapur	33	Akenapalli	12
Batwanpalli	8									
Perkapalli	16									
Lingapur	33									
Akenapalli	12									
5	<p>Smt. A Sridevi, MLA, Asifabad, welcomed the project and requested the SCCL management to provide the following-</p> <ul style="list-style-type: none"> ➤ Funds for drinking water and agriculture in the village ➤ Water tank for Akenepalli ➤ Water from Shanti Khani Longwall Project to Batwanpalli and Lingapur tanks ➤ Shanthikhani to Lingapur BT road ➤ B T road from Mandamarri to Batwanpalli via Akenepalli village. ➤ Agriculture and drinking for Batwanpalli, Akenepalli, Gurijala and Perkapalli. 	<ul style="list-style-type: none"> • Mine discharge water of 1360 KLD from is being diverted to Lingapur tank for agriculture purpose. • 5450 KLD for drinking water for colony and Bellampalli township • Remaining 2000 KLD discharge water is also diverted to nallah No. 2 for agriculture purpose by near villages. • 10 KM BT road laid from Akenapalli to Mandamarri for use of SCCL employees and others to reach their work places. 								
6	<p>Sri Jangapalli Ramaswamy, Sarpanch Patha Bellampalli pleaded for the rehabilitation of Choparripalli village and compensation to the inhabitants affected due to mining operations of Mandamarri mines under operation in the Patha Bellampalli Village. He sought provision of drinking water facilities to the resident of the village.</p>	<ul style="list-style-type: none"> • Twenty two bore wells were provided for drinking water to nearby villages. 								
7	<p>Sri B. Ankulu, Thala Gurajala welcomed the proposed project and requested the de-silting of tanks in their villages to increase the water holding capacity.</p>	<ul style="list-style-type: none"> • De silting of Thala Gurajala Tank was done in 2016. 								
8	<p>Sri Ch.Venkata Ramana, R/o Batwanpalli while welcoming the project requested SCCL Management to take up the following works in the four villages i.e., Akenepalli, Patha Bellampalli, Batwanpalli and Perkapalli</p> <ul style="list-style-type: none"> ➤ Repair of irrigation tanks. ➤ Supply of filtered mine water to Batwanpalli and Lingapur villages ➤ Power, street lights ,Library, dispensary ,play ground ,community hall <p>1. Compensation at the rate of Rs.2 Lakhs</p>	<ul style="list-style-type: none"> • Twenty two bore wells were provided for drinking water to nearby villages. • 10 KM BT roads laid from Akenapalli to Mandamarri for use of SCCL employees and others to reach their work places and mine water diverted to nearby village tanks. 								

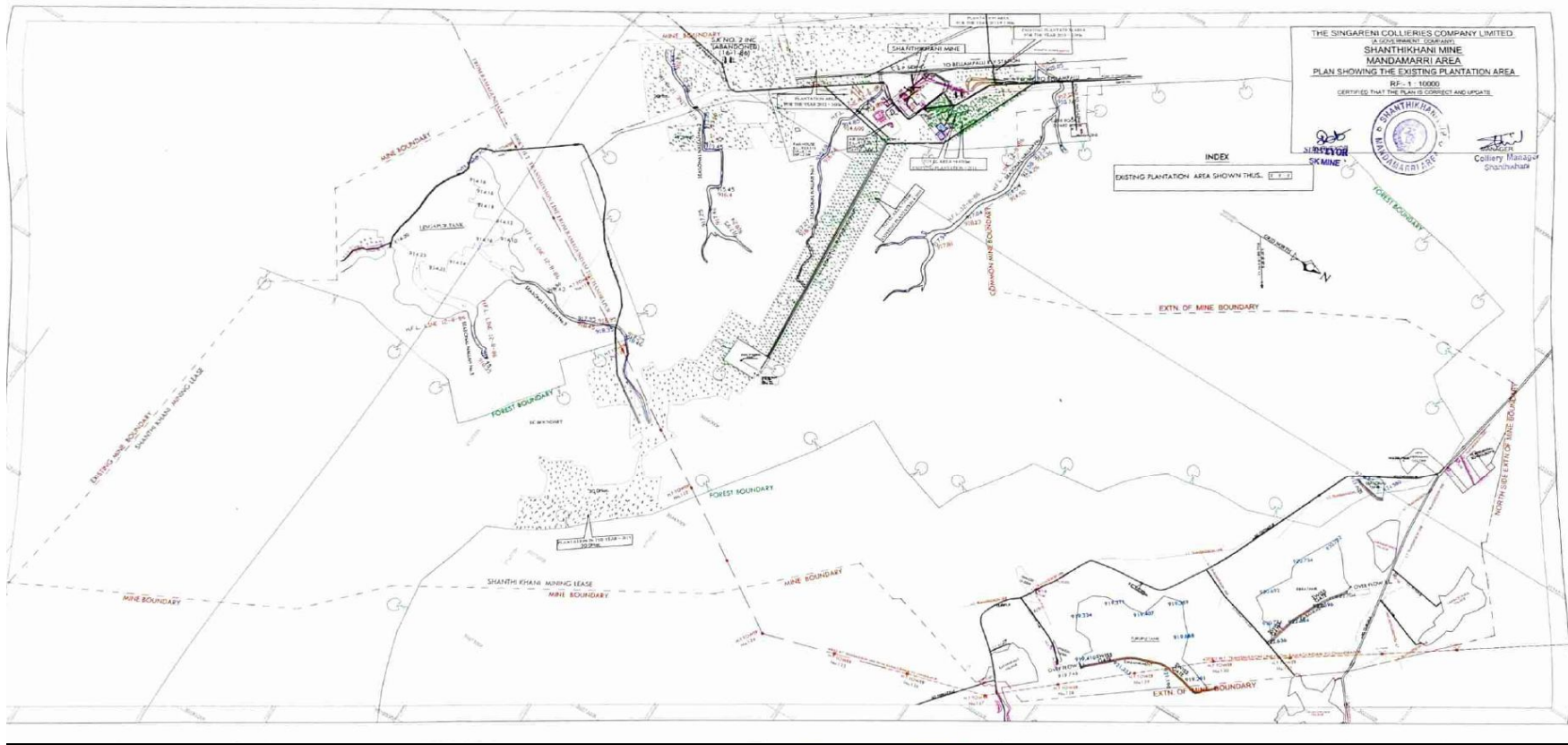
Shanthikhani Longwall Project HYMR Report from April-2023 to September-2023

Sl. No.	Issue raised by the public	Present status
	per acre in case of damage of land due to the proposed mining operations.	



Annexure -I

PLANTATION PLAN



Annexure-II

Peizometric & Phreatic monitoring data of Mandamarri Area, SCCL

ATTITUDE OF PHREATIC SURFACE IN GODAVARI VALLEY COAL FIELD

Well No.	Name of village	Location	Type of well	Dimensions (m)	Total depth (m)	Geology	Measuring point (m)	Period	Years						Nearest mine & dist. (km)
									2018	2019	2020	2021	2022	2023	
1	Talagurijal	Near Bus stop	Domestic	2.1 x 2.1	10.0	Kamthi Fm.	0.50	Winter	6.87	6.93	6.84	6.89	3.41	4.89	SK-2
								Pre-monsoon	7.08	6.88	7.12	6.89	7.02	6.57	
								Monsoon	4.04	3.01	4.14	2.90	1.20	3.80	4.5
								Post-monsoon	4.28	6.81	4.62	3.16	2.83		
2	Batwanpalli	In village	Domestic	2.0	9.0	Kamthi Fm.	0.20	Winter	4.45	0.20	5.82	4.68	2.11	3.55	SK-2
								Pre-monsoon	4.72	5.88	6.14	4.68	4.54	6.92	
								Monsoon	2.91	2.60	2.89	0.77	0.63	0.88	3.5
								Post-monsoon	3.08	5.79	3.56	1.56	1.90		
3	Dubbagudem	In village	Domestic	3.2	8.0	Kamthi Fm.	0.70	Winter	AB	AB	AB	AB	AB	AB	SK-2
								Pre-monsoon	AB	AB	AB	AB	AB	AB	
								Monsoon	AB	AB	AB	AB	AB	AB	3.0
								Post-monsoon	AB	AB	AB	AB	AB	AB	
4	Bellampalli	Behind DFO Office	Domestic	1.5	13.0	Sullavai Fm.	0.50	Winter	AB	AB	AB	AB	AB	AB	SK-2
								Pre-monsoon	AB	AB	AB	AB	AB	AB	
								Monsoon	AB	AB	AB	AB	AB	AB	3.5
								Post-monsoon	AB	AB	AB	AB	AB	AB	

Shanthikhani Longwall Project HYMR Report from April-2023 to September-2023

Well No.	Name of village	Location	Type of well	Dimensions (m)	Total depth (m)	Geology	Measuring point (m)	Period	Years						Nearest mine & dist. (km)
									2018	2019	2020	2021	2022	2023	
5	Lingapur	Near to nala	Domestic	2.0	9.0	Barren Measures Fm	0.20	Winter	8.92	Dry	9.00	8.00	6.79	8.16	SK-2
								Pre-monsoon	Dry	Dry	Dry	Dry	7.84	9.97	
								Monsoon	5.43	5.21	4.84	4.75	4.40	6.32	2.0
								Post-monsoon	6.23	6.13	6.12	6.49	5.75		
6	Akenapalli	Before village	Agri. well	2.0	8/10.0	Kamthi Fm.	0.40	Winter	3.34	3.44	3.98	4.84	3.28	4.67	SK-2 Inc.
								Pre-monsoon	Dry	3.93	Dry	7.49	6.45	6.30	
								Monsoon	2.07	1.97	3.08	2.27	1.72	2.30	2.3
								Post-monsoon	2.14	3.98	3.32	2.92	3.50		
7	Akenapalli	towards S.C. Colony	Agriculture	5.2	8.5	Kamthi Fm.	0.20	Winter	3.93	4.08	4.90	4.80	2.11	1.33	SK-2 Inc.
								Pre-monsoon	Dry	Dry	4.98	4.61	4.22	1.40	
								Monsoon	0.57	0.25	1.77	0.20	0.48	0.65	2.3
								Post-monsoon	0.71	4.88	2.27	0.40	0.79		
8	Akenapalli	Towards Buchayapalli	Domestic	2.1	9.5	Kamthi Fm.	0.30	Winter	6.83	6.23	6.13	6.20	3.28	AB	SK-2 Inc.
								Pre-monsoon	6.94	6.32	6.30	6.20	6.45	AB	
								Monsoon	6.32	6.29	6.30	6.29	1.72	AB	
								Post-monsoon	3.23	3.10	3.25	3.15	3.50	AB	2.3

Note: * indicates new well started adjacent to the previous existing well

NA : Not approachable

NR : Not Recorded

Annexure-III

Ground water quality monitoring data

Groundwater Sampling Locations

Sl. No.	Sampling code	Date of sampling	Sampling Location	Latitude	Longitude
1	GW-9	02.08.2023	Bellampalli	N 19°03'50.1"	E 79°29'21.5"
2	GW-10	02.08.2023	Lingapur	N 19° 01' 46.4"	E 79° 31' 54.1"

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-9 Bellampalli	GW-10 Lingapur
1.	Colour	Hazen	2120. B	5	15	5	5
2.	Odour	TON	2150. B	Agreeable	Agreeable	Agree.	Agree.
3.	pH	--	4500-H ⁺ B	6.5 to 8.5	No relaxation	7.3	7.7
4.	Taste	FTN	2160. B	Agreeable	Agreeable	Agree.	Agree.
5.	Turbidity	NTU	2130. B	1	5	0.44	0.58

Shanthikhani Longwall Project HYMR Report from April-2023 to September-2023

6.	Total Dissolved Solids at 180°C	mg/L	2540.C	500	2000	756	335
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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-9 Bellampalli	GW-10 Lingapur
1.	Calcium as Ca	mg/L	3500-Ca.B	75	200	82	41
2.	Magnesium as Mg	mg/L	3500-Mg.B	30	100	70	32
3.	Chlorides as Cl-	mg/L	4500-Cl-.B	250	1000	143	34
4.	Sulphates as SO42-	mg/L	4500-SO42- .E	200	400	85	36
5.	Fluoride as F-	mg/L	4500-F-.C	1.0	1.5	0.99	0.36
6.	Nitrates as NO3	mg/L	4500-NO3-.B	45	No relaxation	24	23
7.	Total Alkalinity as CaCO3	mg/L	2320. B	200	600	385	215
8.	Total Hardness as CaCO3	mg/L	2340. C	200	600	493	234
9.	Sulphide as H ₂ S	mg/L	4500-S2-F&D	0.05	No relaxation	BDL	BDL
10.	Total Ammonia-N	mg/L	IS 3025 (Part 34)	0.5	No relaxation	BDL	BDL
11.	Phenolic compounds as C6H5OH	mg/L	5530-D	0.001	0.002	BDL	BDL
12.	Residual free chlorine	mg/L	4500-Cl-.B	0.2	1.0	BDL	BDL
13.	Mineral oil	mg/L	IS:3025 (part 39)	0.5	No relaxation	absent	absent
14.	Anionic Detergents (as MBAS)	mg/L	IS:13428:2005K	0.2	1.0	<0.2	<0.2
15.	Aluminium as Al	mg/L	3120-B	0.03	0.2	0.08	BDL
16.	Barium as Ba	mg/L	3120. B	0.7	No relaxation	0.09	0.21
17.	Boron as B	mg/L	3120-B	0.5	2.4	0.15	0.14
18.	Iron as Fe	mg/L	3120-B	1.0	No relaxation	0.27	0.45
19.	Zinc as Zn	mg/L	3120-B	5	15	0.06	0.05
20.	Copper as Cu	mg/L	3120-B	0.05	1.5	BDL	BDL

Shanthikhani Longwall Project HYMR Report from April-2023 to September-2023

21.	Manganese as Mn	mg/L	3120-B	0.1	0.3	BDL	BDL
22.	Selenium as Se	mg/L	3120-B	0.01	No relaxation	BDL	BDL
23.	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-9 Bellampalli	GW-10 Lingapur
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	Pesticides: 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	Polyaromatic Hydrocarbons (PAH's): Acenaphthene, Acenaphthylene, Anthracene, B(a)A, B(a)P, B(b)F, B(k)F, Pyrene, Dibenz (a,h) anthracene,	µg/L	6440.C	-	-	ND	ND

Shanthikhani Longwall Project HYMR Report from April-2023 to September-2023

Fluoranthene, Fluorene, Indeno (1,2,3-(d) Pyrene, Naphthalene, Phenanthrene, Pyrene, Methyl Naphthalene							
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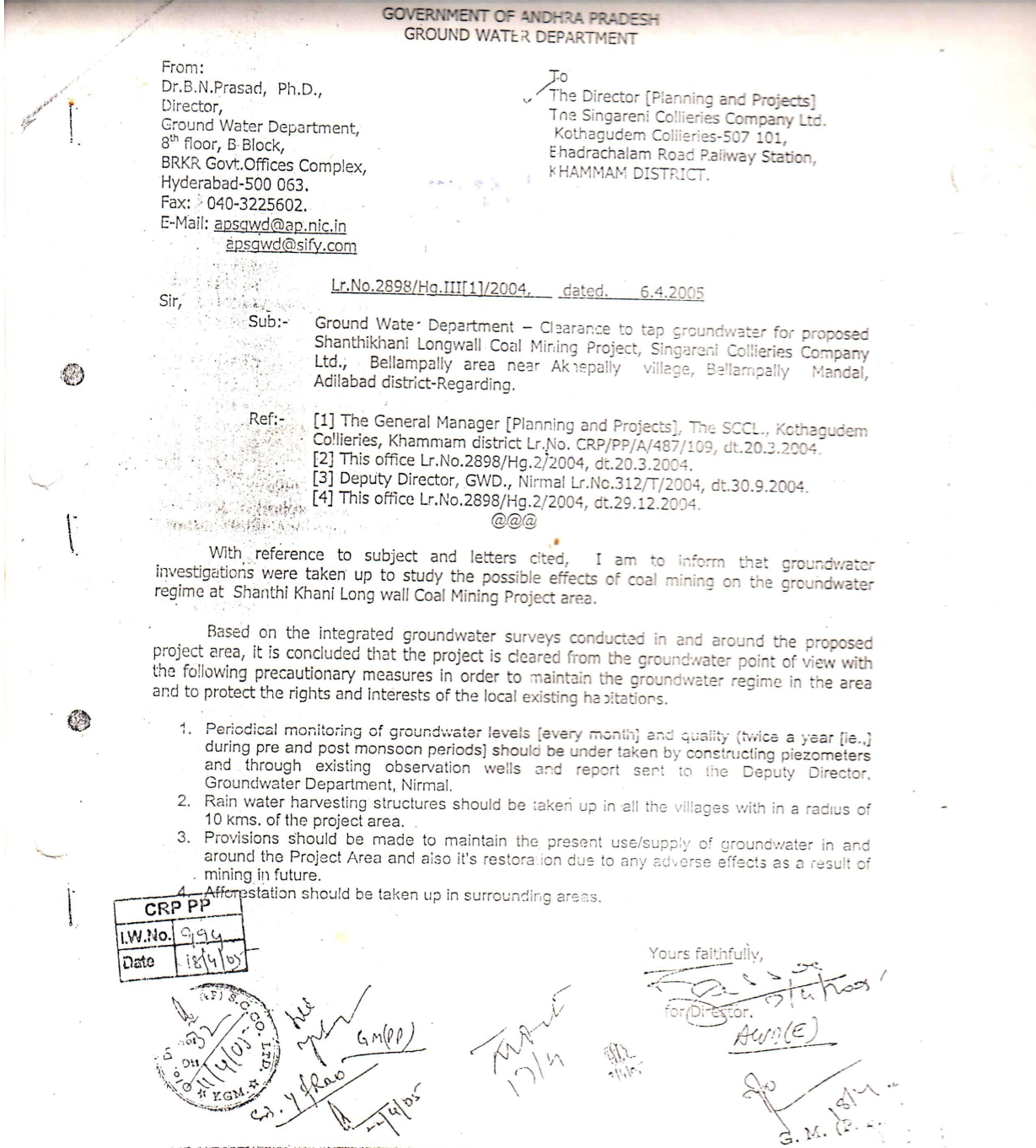
Bacteriological Quality of Drinking Water

S.No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT	
						GW-9 Bellampalli	GW-10 Lingapur
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; TON – Threshold Odour Number; FTN – Flavor Threshold Number; BDL – Below Detection Limit, Detection Limit – Phenols – 0.1 mg/L; Mercury – 20 µg/L; Cyanide – 0.05 mg/L; Hex. Chromium – 0.05 mg/L; Copper – 0.02 mg/L; Manganese – 0.01 mg/L; Cadmium – 0.01 mg/L; Selenium – 0.04 mg/L; Arsenic – 0.04 mg/L; Lead – 0.04 mg/L; Aluminum – 0.04 mg/L; Chromium – 0.03 mg/L; Nickel – 0.03 mg/L; Residual free chlorine – 1 mg/L; Nitrites – 0.01 mg/L; Orthophosphates – 0.05 mg/L; ND-Not Detected; Detection Limit : Pesticides– 1 ppm

Shanthikhani Longwall Project HYMR Report from April-2023 to September-2023

GROUND WATER CLEARANCE



CONSENT FOR ORDER



**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 (RENEWAL)
RED CATEGORY**

Consent Order No : 210523335393

Date : 09 .11.2021

(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 21/22 of Air (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. The Singareni Collieries Co. Ltd., Shanthikhani Long wall Under Ground Coal Mining Project, Mandamarri area, Akenapalli (V), Bellampally (M), Mancherial 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 and the quantity of Emissions per hour from the chimneys, by operating pollution control equipment, as detailed below,

i) Out lets for discharge of Effluents :

Outlet No.	Outlet Description	Max Daily Discharge (KLD)	Point of Disposal
1	Excess mine water discharge	1700	Shall be used for on land for plantation / Dust suppression after meeting the standards stipulated at Schedule - B
2	Domestic	2268	After treatment in STP, shall be used for on land for plantation / Dust suppression after meeting the standards stipulated at Schedule - B

This consent order is valid for Mining of Coal in Mine lease area of 681.23 Ha. for the following capacity only.

S. No.	Name of the Product	Capacity
1	Coal (underground mining)	1.167 MTPA

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 order of Consents is valid for a period upto 30th September, 2026.

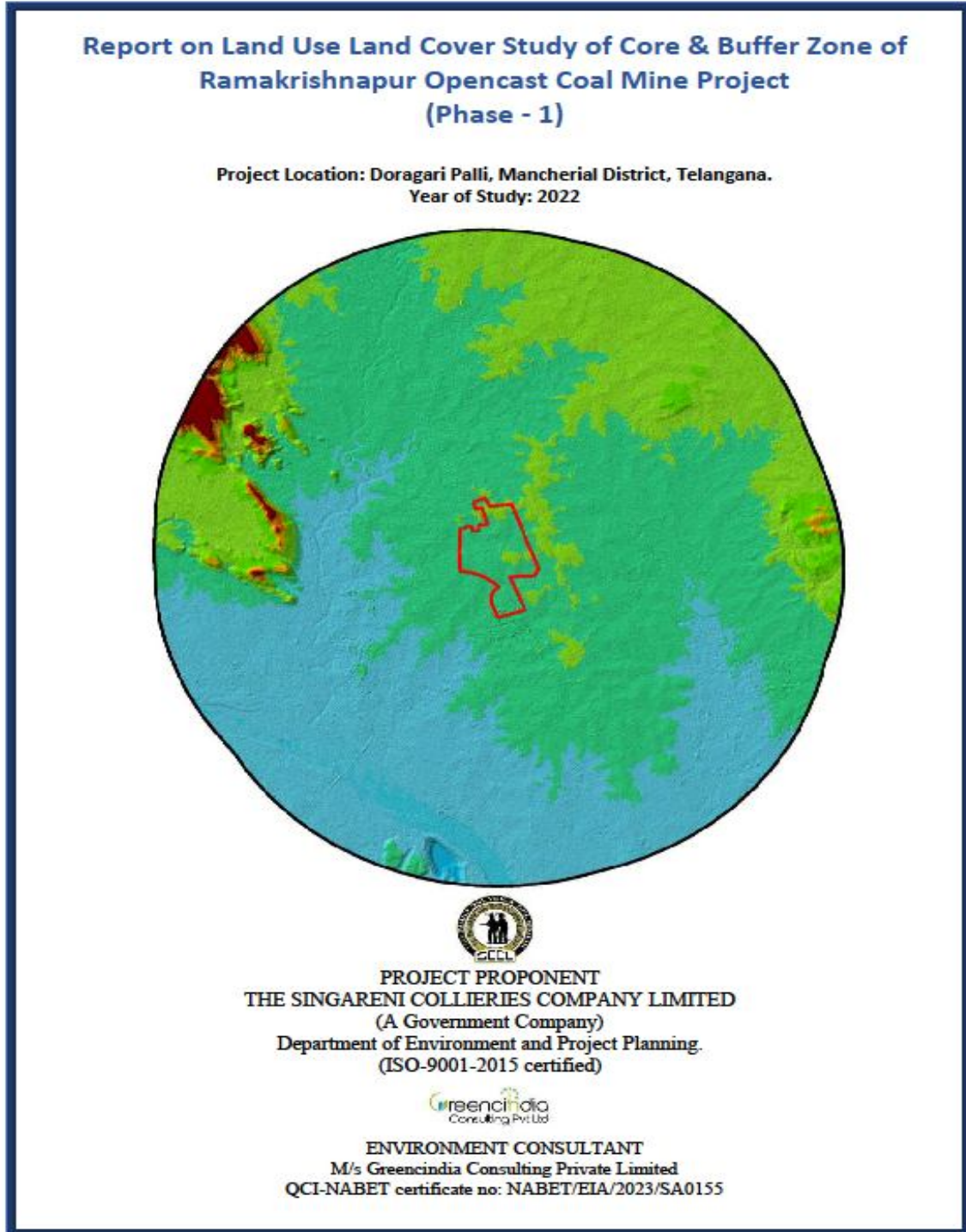
**Sd/-
MEMBER SECRETARY**

**To
M/s. The Singareni Collieries Co. Ltd.,
Shanthikhani Long wall Under Ground Coal Mining Project,
Mandamarri area, Akenapalli (V), Bellampally (M),
Mancherial District**

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

B. B. G. R. S. R.
SENIOR ENVIRONMENTAL ENGINEER (FAC)

LAND USE LAND COVER



Annexure-VII**Production Details:**

Sl. No	Year	Coal (in MTPA)	
		As per EC	Actual
1	2008-09	1.167	0.051
2	2009-10	1.167	0.014
3	2010-11	1.167	0.041
4	2011-12	1.167	0.068
5	2012-13	1.167	0.064
6	2013-14	1.167	0.062
7	2014-15	1.167	0.084
8	2015-16	1.167	0.100
9	2016-17	1.167	0.043
10	2017-18	1.167	0.110
11	2018-19	1.167	0.090
12	2019-20	1.167	0.091
13	2020-21	1.167	0.132
14	2021-22	1.167	0.093
15	2022-23	1.167	0.068
16	2023-24 (Up to Sept 2023)	1.167	0.031

Wildlife Conservation Plan

File No.PCCF-WL1/WL14/9/2022-WILD LIFE SECTION

**GOVERNMENT OF TELANGANA
FOREST DEPARTMENT**

Ref:-PCCF Office of the Prl. Chief Conservator of Forests(Head
-WL1/WL14/9-2022 of Forest Force)
Dated:- 05/02/2023 Aranya Bhavan,Saifabad, Hyderabad

Sri. R.M.Dobriyal, I.F.S.,

**Prl.Chief Conservator of Forests (HOFF)
Chief Wildlife Warden(FAC)**

Sub: TSFD- WL - TOR /Environmental clearance, approval of Wildlife Mitigation Plan for Scheduled-I species for existing & proposed expansion mines in Mandamarri Area in Mancherial District of Mancherial forest division - Wildlife Conservation & Mitigation Plan - Approved and Communicated- Reg.

Ref: CCF FDPT KTR Mancherial Rc.no. 7516/2022-D2 dated 22.12.2022

-o0o-

In the reference cited, the CCF/ FDPT KTR Mancherial has submitted a revised Wildlife Conservation & Mitigation Plan for Mandamarri group of mines i.e Kalyanikhani OCP ,Ravindra Khani OCP, Kasipet-1 Incline, Kasipet - 2 Incline, Kalyankhani-1 Incline, Kalyankhani-5 Incline Mine ,Ravinia Khani - 1A Incline & Shantikhani Longwall Underground Mine duly revising the TOR/ Environmental clearance approval for existing & proposed expansion mines in Mandamarri Area in Mancherial District of Mancherial Forest division for an amount of Rs 554.70 lakhs.

The Wildlife Conservation & Mitigation Plan submitted by FD, KTR is approved for an amount of Rs 554.70 lakhs and is enclosed herewith for further necessary action. The amount of Rs.554.70 lakhs for implementing the wildlife mitigation plan is to be deposited into the BIOSOT account of the Chief Wildlife Warden bearing account no. No.110310100030284, IFSC Code UBIN0811033 in Union Bank of India, Secretariat Bank. A copy of the transaction of the deposit shall to be sent to this office.

CRP/ENV	
I.W. No:	362
Date	20/2/2023

Ravi Kumar / J.M

Annexure –IX

Air quality monitoring data

The summary of the Air quality monitoring from April-2023 to September-2023 as follows:

Air Monitoring Locations

Station Code	Name of the Stations	Latitude	Longitude
CA4	SKLW Incline Site Office	N 19° 02' 41.6"	E 79° 30' 46.6"
BA8	Bellampalli Colony	N 19° 04' 12.9"	E 79° 29' 35.6"
BA9	Lingapur	N 19° 01' 46.4"	E 79° 31' 54.1"
BA10	Perkapalli	N 19° 03' 49.1"	E 79° 32' 07.6"
BA11	Gundla Somaram	N 19° 02' 04.4"	E 79° 34' 33.4"

Air Monitoring Locations

Station Code	Name of the Stations	Latitude	Longitude
Core Zone			
CA4	SKLW Incline Site Office	N 19° 02' 41.6"	E 79° 30' 46.6"
Buffer Zone			
BA8	Bellampalli Colony	N 19° 04' 12.9"	E 79° 29' 35.6"
BA9	Lingapur	N 19° 01' 46.4"	E 79° 31' 54.1"
BA10	Perkapalli	N 19° 03' 49.1"	E 79° 32' 07.6"
BA11	Gundla Somaram	N 19° 02' 04.4"	E 79° 34' 33.4"

Shanthikhani Longwall Project HYMR Report from April-2023 to September-2023

Summary of Ambient Air Quality

Location code	Name of the location	PM ₁₀ (mg/m ³)			PM _{2.5} (mg/m ³)			SO ₂ (mg/m ³)			NO ₂ (mg/m ³)		
Coal mine standards (commenced prior to 25.09.2000), GSR 742(E), Dated 25.09.2000		250			-			120			120		
Core Zone		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
CA4	SKLW Incline Site Office	159.0	176.0	167.2	62.6	73.2	68.0	15.0	17.8	16.3	18.3	20.8	19.6

Summary of Ambient Air Quality

Location code	Name of the location	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		
Buffer Zone		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
BA8	Bellampalli Colony	55.0	69.0	63.2	26.8	34.0	30.7	10.2	12.8	11.3	13.0	15.9	14.4
BA9	Lingapur	43.0	59.0	50.5	21.8	27.5	24.3	8.5	10.9	9.4	11.6	14.1	12.6
BA10	Perkapalli	40.0	60.0	48.5	17.8	29.1	23.1	8.3	11.9	9.8	11.2	15.0	13.1
BA11	Gundla Somaram	39.0	57.0	46.7	17.5	27.0	22.0	7.9	9.7	8.6	10.8	12.4	11.5

Ambient Air Quality at SKLW Incline Site Office (CA4)

Area : Mandamarri **Nature of Area** : Core Zone
Period of Monitoring : April-2023 to September-2023 **Sampling Duration** : 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.	01.04.2023	179	76.3	16.9	20.9
2.	17.04.2023	172	73.0	16.6	19.5
3.	02.05.2023	175	75.6	16.8	19.0
4.	16.05.2023	180	79.3	17.3	20.1
5.	01.06.2023	176	73.2	17.8	20.8
6.	16.06.2023	170	70.6	17.0	20.2
7.	01.07.2023	166	65.5	16.5	19.7
8.	17.07.2023	159	62.6	15.0	18.3
9.	01.08.2023	163	66.7	15.4	19.1
10.	16.08.2023	169	69.4	16.0	19.7
11.	01.09.2023	161	60.0	15.3	18.5
12.	16.09.2023	167	64.4	15.8	18.1
Min		159.0	60.0	15.0	18.1
Max		180.0	79.3	17.8	20.9
Average		169.8	69.7	16.4	19.5
98 Percentile		179.8	78.6	17.7	20.9

- No standard was specified for PM2.5in core zone

Ambient Air Quality at Bellampalli Colony (BA8)

Area : Mandamarri **Nature of Area** : Buffer Zone
Period of Monitoring : April-2023 to September-2023 **Sampling Duration** : 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.	01.04.2023	63	28.3	12.8	15.8
2.	17.04.2023	68	33.0	11.8	14.6
3.	02.05.2023	62	31.6	11.0	14.1
4.	16.05.2023	66	32.1	12.3	15.0
5.	01.06.2023	69	34.0	12.8	15.9
6.	16.06.2023	65	32.7	11.3	14.6
7.	01.07.2023	61	29.1	10.2	13.8
8.	17.07.2023	55	26.8	10.8	13.0
9.	01.08.2023	63	29.4	11.0	14.1
10.	16.08.2023	66	31.9	11.8	14.7
11.	01.09.2023	61	29.1	10.9	13.9
12.	16.09.2023	64	31.3	11.3	14.2
Min		55.0	26.8	10.2	13.0
Max		69.0	34.0	12.8	15.9
Average		63.6	30.8	11.5	14.5
98 Percentile		68.8	33.8	12.8	15.9

Ambient Air Quality at Lingapur (BA9)

Area : Mandamarri **Nature of Area** : Buffer Zone
Period of Monitoring : April-2023 to September-2023 **Sampling Duration** : 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.	01.04.2023	51	23.3	10.0	13.1
2.	17.04.2023	49	22.6	9.8	12.9
3.	02.05.2023	52	23.8	9.3	12.2
4.	16.05.2023	55	27.0	10.2	13.3
5.	01.06.2023	59	27.5	10.9	14.1
6.	16.06.2023	53	26.5	9.8	13.0
7.	01.07.2023	49	23.5	9.2	12.7
8.	17.07.2023	43	21.8	8.5	11.6
9.	01.08.2023	47	23.3	9.2	12.1
10.	16.08.2023	52	22.9	8.7	11.9
11.	01.09.2023	49	23.5	8.0	11.3
12.	16.09.2023	54	27.3	8.9	11.8
Min		43.0	21.8	8.0	11.3
Max		59.0	27.5	10.9	14.1
Average		51.1	24.4	9.4	12.5
98 Percentile		58.1	27.5	10.7	13.9

Ambient Air Quality at Perkapalli (BA10)

Area : Mandamarri **Nature of Area** : Buffer Zone
Period of Monitoring : April-2023 to September-2023 **Sampling Duration** : 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.	01.04.2023	49	22.9	10.6	13.9
2.	17.04.2023	53	23.1	10.0	13.1
3.	02.05.2023	50	22.9	10.4	13.7
4.	16.05.2023	56	23.3	11.1	14.2
5.	01.06.2023	60	29.1	11.9	15.0
6.	16.06.2023	51	22.9	10.2	13.7
7.	01.07.2023	47	23.1	9.7	13.0
8.	17.07.2023	40	17.8	8.3	11.2
9.	01.08.2023	44	22.4	9.0	12.5
10.	16.08.2023	49	23.1	9.6	12.9
11.	01.09.2023	42	22.6	8.8	11.7
12.	16.09.2023	48	23.8	9.1	12.6
Min		40.0	17.8	8.3	11.2
Max		60.0	29.1	11.9	15.0
Average		49.1	23.1	9.9	13.1
98 Percentile		59.1	27.9	11.7	14.8

Ambient Air Quality at Gundla Somaram (BA11)

Area : Mandamarri **Nature of Area** : Buffer Zone
Period of Monitoring : April-2023 to September-2023 **Sampling Duration** : 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.	01.04.2023	47	28.6	9.6	12.0
2.	17.04.2023	50	23.3	8.8	11.8
3.	02.05.2023	48	22.4	8.2	11.2
4.	16.05.2023	53	26.8	9.1	12.8
5.	01.06.2023	57	27.0	9.7	12.4
6.	16.06.2023	50	21.6	8.7	11.6
7.	01.07.2023	45	22.2	8.3	11.2
8.	17.07.2023	39	17.5	7.9	10.8
9.	01.08.2023	42	21.4	8.1	11.2
10.	16.08.2023	47	22.4	8.6	11.8
11.	01.09.2023	40	21.8	7.7	10.9
12.	16.09.2023	45	22.2	8.2	11.4
Min		39.0	17.5	7.7	10.8
Max		57.0	28.6	9.7	12.8
Average		46.9	23.1	8.6	11.6
98 Percentile		56.1	28.2	9.7	12.7

Annexure-X

Noise levels monitoring data

Noise Monitoring Locations

Station Code	Name of the Stations	Latitude	Longitude
CN9	SKLW Pit Office	N 19° 02' 41.6"	E 79° 30' 46.6"
BN9	Bellampalli Colony	N 19° 04' 12.9"	E 79° 29' 35.6"
BN10	Gundla Somaram	N 19° 02' 04.4"	E 79° 34' 33.4"

Noise Monitoring Locations

Station Code	Name of the Stations	Latitude	Longitude
Core Zone			
CN9	SKLW Pit Office	N 19° 02' 41.6"	E 79° 30' 46.6"
Buffer Zone			
BN9	Bellampalli Colony	N 19° 04' 12.9"	E 79° 29' 35.6"
BN10	Gundla Somaram	N 19° 02' 04.4"	E 79° 34' 33.4"

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Summary of Noise Levels

Location Code	Monitoring stations	Standard limits of Noise		April-2023 1 st Fortnight			April-2023 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN9	SKLW Pit Office	75	70	01.04.2023	59.3	49.0	17.04.2023	58.8	49.7
Buffer Zone									
BN9	Bellampalli Colony	55	45	01.04.2023	51.9	41.7	17.04.2023	50.8	40.8
BN10	Gundla Somaram	55	45	01.04.2023	48.0	38.2	17.04.2023	47.4	38.9

Note: 1. Day time is reckoned in between 6 a.m and 10 p.m 2. Night time is reckoned in between 10 p.m and 6 a.m

Location Code	Monitoring stations	Standard limits of Noise		May-2023 1 st Fortnight			May-2023 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN9	SKLW Pit Office	75	70	02.05.2023	58.1	48.7	16.05.2023	58.8	48.2
Buffer Zone									
BN9	Bellampalli Colony	55	45	02.05.2023	50.0	40.2	16.05.2023	51.3	41.2
BN10	Gundla Somaram	55	45	02.05.2023	47.9	37.6	16.05.2023	48.5	38.5

Location Code	Monitoring stations	Standard limits of Noise		June-2023 1 st Fortnight			June-2023 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN9	SKLW Pit Office	75	70	01.06.2023	59.1	47.9	16.06.2023	57.9	47.4
Buffer Zone									
BN9	Bellampalli Colony	55	45	01.06.2023	51.9	41.8	16.06.2023	50.7	40.7

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BN10	Gundla Somaram	55	45	01.06.2023	48.0	38.9	16.06.2023	47.0	37.6
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Location Code	Monitoring stations	Standard limits of Noise		July-2023 1 st Fortnight			July-2023 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN9	SKLW Pit Office	75	70	01.07.2023	57.2	47.2	17.07.2023	56.8	46.5
Buffer Zone									
BN9	Bellampalli Colony	55	45	01.07.2023	50.0	40.1	17.07.2023	49.7	39.6
BN10	Gundla Somaram	55	45	01.07.2023	47.8	38.1	17.07.2023	47.2	37.7

Location Code	Monitoring stations	Standard limits of Noise		August-2023 1 st Fortnight			August-2023 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN9	SKLW Pit Office	75	70	01.08.2023	57.3	47.3	16.08.2023	58.0	47.8
Buffer Zone									
BN9	Bellampalli Colony	55	45	01.08.2023	50.1	40.2	16.08.2023	50.8	40.7
BN10	Gundla Somaram	55	45	01.08.2023	47.9	38.2	16.08.2023	48.5	38.9

Location Code	Monitoring stations	Standard limits of Noise		September-2023 1 st Fortnight			September-2023 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN9	SKLW pit office	01.09.2023	75	70	56.9	46.8	16.09.2023	57.4	47.4
Buffer Zone									
BN9	Bellampalli colony	01.09.2023	55	45	49.9	40.0	16.09.2023	50.3	40.5
BN10	Gundla Somaram	01.09.2023	55	45	47.4	37.5	16.09.2023	48.1	38.4

Annexure-XI

Characteristics of Effluents – Area Workshop ETP Outlet (EW16)

Sl. No.	Date of Sampling	pH	TSS at 105 ⁰ C	TDS at 180 ⁰ C	COD	BOD	Oil & Grease
	Unit	--	mg/L	mg/L	mg/L	mg/l	mg/L
	Test Method	4500-H ⁺ B	2540-D	2540-C	5220-D	IS 3025	5520-B
	MoEF GSR 742 (E) and 801(E) Effluent Standards for coal mines	5.5 to 9.0	100	--	250	30	10
	14.04.2023	7.5	62	1042	56	10.6	2.6
	29.04.2023	7.3	58	1254	51	12.2	3.2
	15.05.2023	8.1	78	1142	55	14.4	3
	31.05.2023	7.9	41	1026	43	12.8	2.4
	08.06.2023	7.7	73	1184	23	5.2	1.6
	30.06.2023	8.2	59	992	51	14.4	3
	14.07.2023	7.7	63	916	59	12.4	3.2
	29.07.2023	7.9	50	877	63	13.4	2.8
	14.08.2023	8.1	78	1142	51	14.4	3
	25.08.2023	8.1	69	984	59	9.4	3.8
	12.09.2023	7.6	56	1091	47	11.2	3
	27.09.2023	7.8	71	1197	56	12.6	4.4

Annexure-XII

Effluents monitoring data

Effluents sampling locations

Sl.No.	Sample code	Name of the Location	Latitude	Longitude
1.	EW13	SK Mine Discharge	N 19° 02' 41.6"	E 79° 30' 47.1"
2.	EW16	Area Workshop ETP Outlet	N 18° 59' 35.106"	E 79° 28' 41.484"

Characteristics of Effluents – SK Mine Discharge (EW13)

Sl. No.	Date of Sampling	pH	TSS at 105 ⁰ C	TDS at 180 ⁰ C	COD	BOD	Oil & Grease
	Unit	--	mg/L	mg/L	mg/L	mg/l	mg/L
	Test Method	4500-H ⁺ B	2540-D	2540-C	5220-D	IS 3025	5520-B
	MoEF GSR 742 (E) and 801(E) Effluent Standards for coal mines	5.5 to 9.0	100	--	250	30	10
1.	14.04.2023	7.6	27	995	16	2.2	<1
2.	29.04.2023	7.9	32	851	19	2.1	<1
3.	15.05.2023	7.8	18	896	20	2.2	<1
4.	31.05.2023	7.4	22	1054	19	2.3	<1
5.	08.06.2023	7.8	16	927	12	1.6	<1
6.	30.06.2023	7.3	24	631	23	2.2	<1
7.	14.07.2023	7.7	35	759	19	2.7	<1
8.	29.07.2023	7.4	23	983	19	2.2	<1
9.	14.08.2023	7.8	18	896	23	2.7	<1
10.	25.08.2023	7.8	23	711	27	3.2	<1
11.	12.09.2023	7.3	32	995	31	4.2	<1

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12.	27.09.2023	7.9	28	788	35	3.6	1.2
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Annexure-XIII

ESCROW BANK STATEMENT DETAILS

MCP Summary for FY 2022-23											
Sl.No.	Name of the mine as per approved MP	AccountNo	ROI	Face Value of Deposits upto 31.03.2022	Total Interest upto 31.03.2022	Amount withdrawn till 31.03.2022	Closure Cast deposited in 2022-23	Amount Withdrawn during 2022-23	Accrued from 01.04.2022 to 31.03.2023	TDS deducted from 01.04.2022 to 31.03.2023	Balance as on 31.03.2023
Name of Company											
1	The Singareni Collieries company Ltd.	Kasipet-1 Tndinc	6J0%	4,34,00,000	1,00,89,643	67,39,627	25,80,000	67,39,627	11,61,907	1,19,943	4A6,32,353
2	The Singareni Collieries company Ltd.	Godavarikhani No.1&3 Indines	6A0%	1,29,00,000	28,44,702	18,08,402	16,40,000	19,08,402	4,20,236	43600	1,41,44,334
3	The Singareni Collieries company Ltd.	Godavarikhani Coal Mine(No.2 &ZA and No.5)	6J096	42,42,60,000	2,19,63,178		10,86,40,000		2,34,20,735	29,09,728	57A3,74,169
4	The Singareni Collieries company Ltd.	Kakatiya Khani OC III Project	650%	17,06,40,000	2,03,22,389		5,54,30,000		1,00,22,388	12,50,067	2 1,6»,710 5
5	The Singareni Collieries company Ltd.	COK-7 LEP	6A0%	2,72,40,000	58,64,627	38,40,003	52,10,000	38,40,002	7,36,111	77,715	3,13,33,018
6	The Singareni Collieries Company Ltd.	KTK-6 Indine	5.45%	1,33,00,000	28,72,778	37,30,432	19,00,000		6,99,543	70,126	1,49,70,763
7	The Singareni Collieries company Ltd.	ROI 7 & NT	5.45%		1,10,37,413	1,47,56,714			27,55,504	2,76,579	5,89,59,624
8	The Singareni Collieries company Ltd.	Srirampur -L Indine	5.45%	2,76,00,000	66,45,255	88,55,712	74,00,000		14,25,424	1,41,336	2,66,73,551
9	The Singareni Collieries company Ltd.	Srirampur 3&3A Inclines	5.45%	2,40,00,000	51,86,731	66,87,954	34,00,000		12,63,133	1,26,789	2,70,35,121
10	The Singareni Collieries company Ltd.	Prakashamkhani OC Mine	6	60,26,70,000	16,38,13,505		24,89,50,000		4,02,30,932	50,31,843	1,05,06,32A98
11	The Singareni Collieries company Ltd.	RG DC-III Expansion Project	6.50%	61,49,00,000	23,03,18,250		15,15,90,000		4,43,63,583	55,03,803	1,07,56,68,030
12	The Singareni Collieries company Ltd.	Khairagura Opencast Expansion Project	6J0%	77,60,00,000	18,37,14,498	10,82,21,913	10,92,00,000	10,82,21,912	3,59,83,509	43,08,354	88,41,45,828
13	The Singareni Collieries company Ltd.	Ramagundam Coal Mine	5.45%	1,30,93,70,000	29,89,33,492	50,58,90,820	13,23,40,000		6,15,37,862	61,72,024	1,29,01,18,510
14	The Singareni Collieries company Ltd.	Dorli OC II	6.50%	22,38,00,000	8,39,26,749				1,61,51,826	19,66,039	32,19,12436

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The Singareni Collieries company Ltd.	Dorji ocP - i Expansion	40107327610	5.30%	45,90,90,000	12,95,49,537	8,13,14,775	9,17,40,000		2,74,47,942	27,85,313	62,37,27,391
16 The Singareni Collieries company Ltd.	JalaSam VenSala Rao Openest Mine(1&II Expansion)	41794077972	6.50%	40,80,40,000	14,63,12,338		7,29,30,000		2,94,89,917	35,63,1	65,32,09,æi
17 The Singareni Collieries company Ltd.	Koyagudem OC-II Project	41794086535	6.50%	46,65,00,000	10,64,40,293	640,63,657	6,56,00,000	6,50,63,657	1,28,19,876	13,39,617	51,98,93,188
18 The Singareni Collieries company Ltd.	Kakatiyakhani 2 OC (Covering KTK 2&2A Indine and KTK OC Sector -I)	39238634495	5.90%	2600,00,000	9,15,42,836		4,91,40,000		2,12,01,405	21,44,302	41,97,39,939
The Singareni Collieries company Ltd.	RKPOC Project Phase-I Project	40886384579	5.45%	58,32,00,000	13,04,67,173	16A679,550	8,21,00,000		3,09,36,424	31,04,746	66,09,69,401
20 The Singareni Collieries company Ltd.	Venkatesh Khani Coal Mine	40108837007	SP	62,24,90,000	18,10,34,157	3,44,00,000	4,46,20,000		4,17,96,376	42,74,630	85,12,65,913
21 The Singareni Collieries company Ltd.	Goleti OC Mine	42794080522	6.50%	20,8d,40,000	3,37,72,694		9,67,90,000		1,38,42,460	15,47,801	35,12,97,453
22 The Singareni Collieries company Ltd.	JKOC Mine	40107328943	5.30%	47,60,10,000	11,03,31,668	9,96,23,920	740,28,000		2,63,79,432	26,67,346	58,54,57,934
23 The Singareni Collieries company Ltd.	Ravindra Khani No.6 Incline	40886385903	5.45%	3,71,70,000	2,21,76,051	99,29,326	52,30,000		21,00,012	2,14,822	5,65,69,915
24 The Singareni Collieries company Ltd.	KK-1 Indine	41794087482	6.50%	5,89,00,000	1,30,35,421	81,12,323	83,00,000	81,12,322	16,21,305	1,64,064	6,54,68,017
25 The Singareni Collieries company Ltd.	Ravindra Khani No.5 Incline	40886d86837	5.45%	5,94,00,000	1,16,63,690	1,83,14,940			29,81,185	2,96,052	5,54,33,883
26 The Singareni Collieries company Ltd.	KTK 1& 1A Indine	40886d87784	5.45%	1,89,40,000	32,67,401	50,59,934	26,60,000		9,68,145	97,330	2,06,78,282
27 The Singareni Collieries company Ltd.	Medapa1li Opecast Project	41794082133	6.50%	1,02,02,80,000	21,91,81,874		21,6160,000		7,21,91,927	80,32,527	1,51,98,01,274
28 The Singareni Collieries company Ltd.	KK -5 Incline	41794088271	6.50%	7,03,40,000	1,68,61,421	1,27,16,292		177,16,291	18,04,673	1,86,463	6,33,87,148
29 The Singareni Collieries company Ltd.	Kalyanikhani Opencan Project(KKOC)	39237601674	5.90%	20,40,00,000	2,31,00,316		6,33,40,000		1,37,13,028	14,02,445	30,28,04,899
30 The Singareni Collieries company Ltd.	Manuguru Mining Lease(Manuguru OC Mine)	39238634053	5.90%	34,89,50,000	4,25,54,578		9,84,10,000		2,36,21,545	24,20,540	51,11,05,583
31 The Singareni Collieries company Ltd.	GDK-11 Indine	41794119030	6.50%	2,23,00,000	32,85,302		39,20,000	82,04,500	12,67,259	15,284	2,25,52,777
32 The Singareni Collieries company Ltd.	RK 1A Indine	40884334187	5.45%	2,81,70,000	28,86,888		65,10,000		17,43,606	1,72,217	3,91,38,277
33 The Singareni Collieries company Ltd.	Ravindrakhani No.8 Indine(RR No.8 Indine)	40884244771	5.45%	240,30,000	35,96,992		64,10,000		16,07,186	1,58,929	3,64,85,249
The Singareni Collieries company Ltd.	Shonthikhani LW Project (Shanthikhani tension Block)	40884255057	5.45%	5,11,60,000	52,35,375		1,18,20,000		31,66,167	3,12,724	7,10,68,818
35 The Singareni Collieries company Ltd.	Kondapuram UG Mine	40884250100	5.45%	2,61,80,000	30,55,716		51,60,000		16,41,361	1,61,679	3,58,75,398
36 The Singareni Collieries company Ltd.	KTK 5 Incline	40884329202	5.45%	5,02,70,000	75,18,742		10,00,000		32,44,394	3,15,403	6,17,17,733
37 The Singareni Collieries company Ltd.	Indaram Mining Lease	40884257688	5.45%	14,17,40,000	73,16,272		5,73,60,000		83,68,364	8,38,40g	21,39,46,228
38 The Singareni Collieries company Ltd.	SRP OC II Expansion Project	40884331426	5.45%	40,64,00,000	4,67,51,100		8,78,90,000		2,54,40,949	25,09,591	56,39,72,458
39 The Singareni Collieries company Ltd.	Kasipet 2 Indine	40884252205	5.45%	63,40,000	5,66,861		17,90,000		3,87,768	38,456	90,46,173
The Singareni Collieries	Naini Coal Mine	38885061311	6.25%	2,98,00,000	3,68,065		2,6360,000		1,77,7694	1,21,936	5,74,83,823

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	company Ltd.												
41	The Singareni Collieries company Ltd.	Kistaram OCP	3B885062344	6.25N	9,24,80A00	52.79,087			3,9960,000		62,54,642	3,81,227	14,36,12,502
42	The Singareni Collieries company Ltd.	PV Narasimha Rao Opencast Mine	4DI22186227	S.309t	10,00,000	48,656					56,693	5,670	10,99,679
Total					10,50,46,80,00	2,41,47,67,809	1,1S,76 ,3Ss		z,0B,B6,Oa,000	Z1,7,0s,zzs	sz,81,81,7*2	was,z	1*,*s, 5,7 ,622

Annexure-XIV

Revenue Expenditure incurred on Environment Management and Pollution Control Measures:

The Expenditure incurred from April-2023 to September-2023 as follows

Sl. No	Description	Expenditure (In Rs:)
1	Air Pollution Prevention & Control measures (including free Gas supply of workers)	773800
2	Water Pollution Prevention & Control measures	1439836
3	Plantation	279187
4	Water spraying arrangements	50533
5	Water Cess	-
7	CFO fee	-
	Total:	2543356

Annexure-XV

CONSENT FOR ESTABLISHMENT



ANDHRA PRADESH POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN, A-3, INDUSTRIAL ESTATE,
SANATHINAGAR, HYDERABAD - 500 018

Phone: 23887506, 23887538
Fax: 040 - 23815611
Gmail: Karanbya@appcb.org
Website: www.appcb.org
E-mail: apkoeb@id3.dns.net.in

REGD. POST WITH ACK. DUE

CONSENT ORDER FOR ESTABLISHMENT

Order No. APPCB/PTN/NZB/169/HO/2004/

Di. 31.11.2004

Subj: PCB - CFE - M/s. Singareni Collieries Co. Ltd., Shanthikhani Long Wall Project (Under Ground Mine), Adilabad District. Consent for Establishment of the board under Sec 25 of water (P&C of P) Act, 1974 and under Sec.21 of Air (P&C of P) Act 1981 - Issued - Reg.

Ref: 1. Industry's application through SWCC dt. 21.6.2004
2. R.O's inspection report dt 9.8.2004
3. Public hearing conducted on 31.7.2004 at Grampanchayat Office, Batwanpally (V), Bellampally (M), Adilabad District
4. T.O. Lr.dt 8.9.2004
5. Your Lr.dt.24.9.2004

1. In the reference 1st cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for Shanthikhani Long Wall Project (Under Ground Mine) for Coal mining to the capacity as mentioned below with an investment of Rs.107.84 crores.

Product:

Coal (under ground mining) - 1.167 Million TPA.

Area Details:

Land requirement for the project on surface - 7.07 Ha

Mine Take Area - 681 Ha

2. As per the application, the above activity is to be located at

- a) Forest Land:**
- i) Sy.No.280,281,282,283 -old, 378, 377, 376, 375 - new, Akenapally (V), Bellampally (M).
 - ii) Sy.No.280- old, 378-new, Batwanpally (V), Bellampally (M)
 - iii) Sy.No.280,281,283 - old,378,377,375 - new, Perkapally (V), Bellampally (M).
 - iv) Sy.No.283 - old, 375 - new, Muthupally (V), Nennal (M).
 - v) Sy.No.283 - old, 375 - new, Gurijala (V), Nennal (M).
- b) Private land:**
- i) Sy.No.125, 281, Akenapally (V), Bellampally (M)
 - ii) Sy.No.109, 280, Perkapally (V), Bellampally (M).
 - iii) Sy.No.280, Gurijala (V), Nennal (M)

3. The above site was inspected by the Environmental Engineer and Asst. Environmental Engineer, Regional office, Nalgonda, A.P. Pollution Control Board on 30th & 31st July,2004.

Annexure-XVI

Public Liability Insurance

THE NEW INDIA ASSURANCE CO. LTD.
(Government of India Undertaking)



POLICY SCHEDULE FOR PUBLIC LIABILITY (Act Only) INSURANCE

UIN NUMBER - IRDAN190P0076100001

Insured's Name : THE SINGARENI COLLIERIES COMPANY LIMITED.			
Insured's Details		Issuing Office Details	
Customer ID	: PO48890629	Office Code	: KOTHAGUDEM BO (613601)
Address	: CORPORATE OFFICE:KOTHAGUDEM BHADRADRI KOTHAGUDEM DIST. Khammam ,TELANGANA, 507101	Address	: D.NO: 5-15-93/94, OPP: URDU GHAR, M.G. ROAD, KOTHAGUDEM, KHAMMAM DIST. TELANGANA STATE ,507101
Phone No	:	Phone No	: 08744241233
E-mail/Fax	: fad_crp@sccimines.com, /	E-mail/Fax	: nia.613601@newindia.co.in /
PAN No	: AAAC8873F	S.Tax Regn. No	: AAACN416SCST178
GSTIN/UIN	: 36AAACT8873F1Z1 / NA	GSTIN	: 36AAACN416SC32Q
		SAC	: 997139 (Other non-life insurance services excl RI)

Policy Details			
Policy Number	: 61360136233300000001	Business Source Code	
Period of Insurance	: From: 30/04/2023 12:00:01 AM To: 29/04/2024 11:59:59 PM	Dev. Off. level/Broker/Corp. Agent/Web Aggregator/CPSC User	: Mr. SHOBAN KORRA 9032384639 - (DE00002352)
Date of Proposal	: 30-Apr-23	Agent/Bancassurance/S pecified Person	
Prev. Policy no.	:	Phone No	: NA / 08744241233, 9032384639
Client Type	: Non-Corporate	E-mail/Fax	: / /

Premium(₹)	ERF Premium(₹)	GST(₹)	Total (₹)	Total (₹ in words)	Receipt No. & Date
60611	60610	10,910	1,32,131	RUPEES ONE LAC THIRTY-TWO THOUSAND ONE HUNDRED THIRTY-ONE ONLY	6136018123000000016 3 - 18/04/23

Details of risk covered under current year policy:

Retroactive Date	Paid Up Capital	No Of Locations Involved	AOA	AOA:AOY	AOY	Annual Turnover - Previous Year	Annual Turnover - Proposed Year	Deductibles	No of workmen	No of Other Employee
30/04/2023	<= 15 Crore	11	50000000	1:3	15000000	2049510000	26517890000	43672		0

Retroactive Dates

Retroactive Date Details	Date	Paid Up Capital	No Of Locations Involved	AOA	AOA:AOY	AOY	Annual Turnover - Previous Year	Annual Turnover - Proposed Year	Deductibles	No of workmen	No of Other Employee
RETROACTIVE DATE 1	30/04/2023	<=15Crore	11	50000000	1.3	15000000	20495100000	265178900000	43672		0

RETRO-DATE IS SUBJECT TO LESSER OF LIMITS - NARROWER OF COVER.

Extensions under the Policy

Name of the Extension	Sub Limit of the Extension	Deductibles of the Extension
-----------------------	----------------------------	------------------------------

Signature valid

Digitally signed by NIA Employee
Date: 2023.04.18
13:46:41 IST

Policy No. : 61360136233300000001 Document generated by 39879 at 18/04/2023 13:46:41 Hours.
Regd. & Head Office: New India Assurance Bldg., 87 M.G. Road, Fort, Mumbai - 400 001. TOLL FREE No. 1 800 209 1415.

Annexure-XVII**Surface water quality monitoring data****Surface Water Sampling Locations**

Sl. No.	Sampling code	Date of sampling	Sampling Location	Latitude	Longitude
1.	SW-9	02.08.2023	Lingapur Tank	N 19°01'47.1"	E 79°31'51.0"

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

SI.No	Parameters	Unit	Test Method	CPCB Water Quality Criteria					RESULT SW-9 Lingapur Tank
				Class A	Class B	Class C	Class D	Class E	
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	7.8
2	Electrical Conductivity	µmhos/cm	2510-B	-	-	-	-	2250 µmhos/cm	222
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	-	5.5
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
5	Total Coliforms	MPN/100mL	9221 B	50 or less	500 or less	5000 or less	-	-	170
6	Free Ammonia (as N)	mg/L	4500-NH ₃ -F	-	-	-	1.2 mg/L or less	-	BDL
7	Boron as B	mg/L	3120-B	-	-	-	-	Less than 2 mg/L	0.08
8	SAR	-	-	-	-	-	-	Less than 26	1.22

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

S. No	Parameters	Unit	Test Method	SW-9 Lingapur Tank
1	Colour	Hazen	2120. B	5
2	Odour	TON	2150. B	No odour observed
3	Temperature	°C	2550. B	25.0
4	Turbidity	NTU	2130. B	31.9
5	Total Dissolved Solids at 180° C	mg/L	2540.C	130
6	Total Suspended Solids at 105° C	mg/L	2540. D	26
7	Chemical Oxygen Demand	mg/L	5220. D	16
8	Chlorides as Cl ⁻	mg/L	4500-Cl ⁻ .B	30
9	Sulphates as SO ₄ ²⁻	mg/L	4500-SO ₄ ²⁻ .E	9
10	Fluoride as F ⁻	mg/L	4500-F ⁻ .C	0.22
11	Calcium as Ca	mg/L	3500-Ca.B	10
12	Magnesium as Mg	mg/L	3500-Mg.B	9
13	Sodium as Na	mg/L	3500-Na.B	22
14	Potassium as K	mg/L	3500-K.B	6.5
15	Nitrites as NO ₂	mg/L	4500-NO ₂ ⁻ .B	BDL
16	Nitrates as NO ₃	mg/L	4500-NO ₃ ⁻ .B	0.7
17	Total Phosphates	mg/L	4500-P-D	0.06
18	Ammonical Nitrogen as NH ₃ -N	mg/L	4500-NH ₃ -C	BDL

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S. No	Parameters	Unit	Test Method	SW-9 Lingapur Tank
19	Phenolic compounds as C ₆ H ₅ OH	mg/L	5530-D	BDL
20	Oil & Grease	mg/L	5520. B	<1
21	Carbonates as CO ₃	mg/L	2320. B	nil
22	Bi-carbonates as HCO ₃	mg/L	2320. B	55
23	Fecal Coliforms	MPN/100mL	9221 E	11
24	Zinc as Zn	mg/L	3120. B	0.11
25	Iron as Fe	mg/L	3120. B	3.18
26	Arsenic as As	mg/L	3120. B	BDL
27	Lead as Pb	mg/L	3120. B	BDL
28	Cadmium as Cd	mg/L	3120. B	BDL
29	Total Chromium as Cr	mg/L	3120. B	BDL
30	Nickel as Ni	mg/L	3120. B	BDL
31	Copper as Cu	mg/L	3120-B	BDL
32	Selenium as Se	mg/L	3120-B	BDL

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Implementation of Habitat amelioration Schemes

As per the approved Environmental Management Plan (EMP) of the Project, there are no endangered species found in the core and buffer zones of the project. However SCCL is committed to protect the existing flora and fauna by taking up conservation measures as per mandate and even beyond mandate.

The forest type found in this Reserve Forest (RF) area is dry deciduous type with sub tropical climate and average annual rainfall is 1000 mm. The existing forest is of shrub jungle to tree species of more than 5 m height. The existing herbs, shrubs and tree species are providing a suitable habitat for a variety of insects, reptiles, amphibians and birds. Most of the RF area located in this project lease is degraded with forest density of less than 0.4. In order to improve these degraded Forest lands, SCCL has taken up the following measures to develop greenery and to attract biodiversity.

1. Raising of miscellaneous plantations (both mandate and non mandate) with local indigenous species like *Dendrocalamus strictus*, *Hardwickia binata*, *Pterocarpus marsupium*, *Albezia odoratissima*, *Sterculia urens*, *Terminalia bellarica*, *T. chebula*, *Ficus benghalensis*, *F.religiosa*, *F.mollis*, *Miytragyna parvifolia*, *Adina cardifolia* , *Madhuca latifolia* etc., that will mimic the adjacent forests and attract biodiversity.
2. All the plantations are being raised by digging Continuous Cattle Proof Peripheral trench (CCPT) to protect the plantations from severe biotic interference. These trenches, besides providing protection, are also acting as rainwater harvesting structures and play a major role in soil moisture conservation.
3. Apart from raising of plantations with local forest species, SCCL is also taking measures to conserve the existing flora and fauna by singling of existing important plant species, gap planting in vacant patches etc.
4. In order to harvest rain water, conserve soil moisture, soil moisture conservation measures like development of percolation tanks, digging of staggered contour trenches(SCT) are also being taken up to recharge the ground water and to provide water for the existing fauna during the peak summer months.
5. SCCL is also taking measures to control air, water and noise pollution by periodical monitoring of various pollutants through reputed organization like EPTRI (Environment Protection Training and Research Institute).

6. To bring awareness and to educate the local people, regarding importance of forests and wild life, SCCL is organizing awareness campaigns in schools, local institutions, villages, all mines and departments to check deforestation and poaching. SCCL is also celebrating “**Vanamahotsavam**” and **Telanganaku Harithaharam** for raising large scale plantations in the mine areas.

7. To improve the greenery and to protect the environment in the surrounding villages of the project area, seedlings are being distributed in the surrounding villages during every rainy season.