<u>PART – II</u>

ENVIRONMENTAL PROTECTION MEASURES AS ON 30.09.2023

1. Production Details

SI.	Year	Coal (in MT)	
No	i cai	As per EC	Actual
1.	2006-07	0.60	0.519
2.	2007-08	0.60	0.551
3.	2008-09	0.60	0.586
4.	2009-10	0.60	0.497
5.	2010-11	0.60	0.426
6.	2011-12	0.60	0.474
7.	2012-13	0.60	0.482
8.	2013-14	0.60	0.461
9.	2014-15	0.60	0.446
10.	2015-16	0.60	0.424
11.	2016-17	0.60	0.415
12.	2017-18	0.60	0.407
13.	2018-19	0.60	0.419
14.	2019-20	0.60	0.401
15.	2020-21	0.60	0.250
16.	2021-22	0.60	0.296
17.	2022-23	0.60	0.337
18.	2023-24	0.60	0.172
	(apr-sep)	0.00	0.172

2. Plantation:

No of plants planted during	245
Area covered in Ha	0.40 Ha.
Expenditure incurred in	0.53
Rs. Lakhs (Maintenance)	
during last year	
Total area brought under	13.4 Ha.
plantation so far in Ha	
Total no of plants planted so	10,494
far since inception	
Species of plants planted	Durshanam, Kanuga, Eucalyptus,
	Gulmohar, Acacia, Sisoo, Neem
	Pheltoform, Jamoon, Mango, Casuarinas
Seeds sown so far	
Small plants planted so far	335
Total expenditure in Rs. lakhs -	22.35
	last six months period Area covered in Ha Expenditure incurred in Rs. Lakhs (Maintenance) during last year Total area brought under plantation so far in Ha Total no of plants planted so far since inception Species of plants planted Seeds sown so far Small plants planted so far

Note: Plan along with details of year wise plantation furnished as **Figure-I.**

3. Water Balance Statement:

3.	water Balance Statement:	
SI. No	Description	Quantity in KLD
1	Average quantity of water pumped out of the mine	3015.00
2.	Water consumption :	
A.	Domestic:	
	 a) Water used for drinking/bathing and other industrial requirement 	30.00
	 b) Water supplied for nearest township/village for domestic purpose/CHP 	2050.00
	Sub – Total	2080.00
B.	Industrial:	
	a) Water used for Dust suppression	100.00
	b) Water used for Sand stowing	150.00
	c) Water used for plantation	100.00
	d) Water used for Washing of HEMM	NIL
	Sub - Total	350.00
	Total water consumption	2430.00
3	Excess water let out	585.00
4	Point of disposal (as per CFO)	i) Mine excess water: After treatment for agriculture use / Gardening
		ii) Domestic: STP followed by on-land use/gardening
5	Discharge Consent from TSPCB	1409

4. Micro-meteorological Monitoring:

Micro-meteorological station was installed at General Manager's Office: The summery of monthly micro-meteorological data generated at Srirampur area from April, 2023 to September, 2023 is as follows:

Month	Wind Speed (m/s)			T	Temperature (°C)			tive Hum (%)	Rainfall (mm)		
Month	Mean	Max	Calm %	Mean	Max	Min	Mean	Max	Min	Total	Hourly highest
April,2023	2.4	6.9	14.17	25.6	46.6	33.0	35.4	79.1	8.3	0.0	0.0
May,2023	1.8	6.1	29.97	35.0	47.8	20.9	23.7	73.0	8.2	63.5	22.3
June,2023	1.9	6.7	22.22	32.2	45.1	23.7	48.1	93.5	18.7	76.6	18.2
July,2023	2.1	6.0	8.33	28.6	44.3	20.2	67.1	99.5	16.4	615	52.8
August, 2023	1.7	6.1	26.48	29.9	39.8	19.3	67.4	99.7	20.8	69.2	6.0
September, 2023	1.6	5.0	15.42	28.2	40.6	18.9	46.6	99.8	19.0	194.2	23.3

Summary of micro-meteorological data generated for the study period (April, 2023 to September, 2023)

S.No	Parameter(s)	Min	Max	Mean	
1.	Temperature (°C)	18.9	47.8	31.2	
2.	Wind Speed (m/s)	Calm (%) 17.69	6.9	1.9	
3.	Relative Humidity (%)	8.2	99.8	48.0	
4.	Predominant Wind direction for the entire study period	South West(SW), followed by West- South West (W-SW)			
5.	Total Rainfall (mm)	10	18.5mm		

Ambient Air Quality Monitoring:

Parameters:

In accordance with MoEF&CC Notification, GSR-742 (E), dt. 25.09.2000 and National Ambient Air Quality Standards, the concentration of Suspended Particulate Matter (PM_{10} and $PM_{2.5}$), Sulphur Dioxide (SO_2) and Oxides of Nitrogen (NO_x) is being monitored at work zone locations and also in nearby villages to assess the impact of mining operations on surrounding habitation.

Respirable Dust Sampler is used for monitoring of PM₁₀, SO₂ and NO_x and Ambient Fine Dust Sampler is being used for monitoring of PM_{2.5}. SCCL is carrying out post-project environmental monitoring through EPTRI, Hyderabad, a CPCB recognized and NABL accredited laboratory. EPTRI has also established laboratories in SCCL mining areas for analyzing critical parameters in the field.

Frequency of Monitoring:

Air quality monitoring is being carried out at a frequency of once in a fortnight (24 hourly sampling) at the identified locations near the dust generating sources.

Monitoring Locations:

S.No.	Station Code	Name of the Stations	Latitude	Longitude					
CORE ZONE									
1	CA1	RK-7 Incline	N 18°43' 55.1"	E 79° 30' 54.8"					
BUFFE	BUFFER ZONE								
2	BA1	Mudigunta Village	N 18°51'24.7"	E 79°34'31.8"					
3	BA3	Kankur Village	N 18°52'56.5"	E 79°32'40.4"					
4	BA4	Srirampur Colony	N 18°51'41.6"	E 79°30'24.1"					
5	BA5	RK-8 Colony	N 18°51'44.5"	E 79°30'04.5"					

Monitoring Data:

The summary of the monitoring from April, 2023 to September, 2023 is as follows:

(All values in $\mu g/m^3$)

Location code	Name of the location	PM ₁₀ (IIσ/m ³)			PM _{2.5} (μg/m ³)			SO ₂ (μg/m ³)			NO ₂ (μg/m ³)						
Core Zone		Min	Max	Avg	98%t ile	Min	Max	Avg	98% tile	Min	Max	Avg	98%t ile	Min	Max	Avg	98%tile
Coal mine standards (commenced after 25.09.2000), GSR 742(E), Dated 25.09.2000			250)			-				12	0				120	
CA 3	RK-7 Incline	82.0	217.0	172.67	216.3 4	33.80	56.7 0	48.79	55.9 1	8.80	13.80	11.67	13.71	15.20	19.20	17.54	19.18

Summary of Ambient Air Data Monitoring

Location code	Name of the location		PM₁₀ (μg/m³)			PM _{2.5} (μg/m³)			SO₂ (μg/m³)				NO₂ (µg/m³)				
NAAQ Standards, CPCB Dated: 18.11.2009 60			80				80										
Buf	Buffer Zone		Max	Avg	98%tile	Min	Max	Avg	98%tile	Min	Max	Avg	98%tile	Min	Max	Avg	98%tile
BA1	Mudigunta Village	35.0	86.0	70.25	85.12	16.10	45.80	34.85	45.07	7.70	14.10	9.88	13.66	12.10	19.10	14.64	18.57
BA3	Kankur Village	32.0	82.0	69.08	81.78	18.10	44.90	34.33	44.20	7.60	13.70	10.33	13.52	13.40	18.90	15.71	18.79
BA4	Srirampur Colony	46.0	89.0	76.17	88.12	20.10	48.50	38.96	48.19	8.70	12.70	10.60	12.62	15.10	19.20	16.89	19.05
BA5	RK-8 Colony	37.0	83.0	67.50	82.56	17.30	43.70	32.53	42.82	8.90	11.30	9.84	11.26	14.10	17.10	15.74	17.01

The air quality data monitored at the work zone locations and surrounding residential areas indicate that PM₁₀ concentration levels are within the stipulated limits. The PM_{2.5}, SO₂ and NO₂ levels are also well within the limits at all the locations. The fortnightly air quality data monitored during six months period ending 30th September 2023 is enclosed as **Annexure-I**.

SCCL is taking following control measures in the RK-7 Incline for air pollution control including reduction of particulate emissions:

Air Pollution Control Measures:

- i) Water spraying arrangements have been made in underground at all working places, loading points and transfer points.
- ii) Arrangements have been made for water spraying on the surface coal handling arrangement.
- iii) The coal produced from the mine is transported to Area CHP, where effective mist spray arrangement is provided and maintained at transfer points and at loading points and the conveyor belts have been provided with covered structure.
- iv) Cleaning of coal dust is being taken up regularly.
- v) Coal transport route has been black topped from the mine to CHP. Internal roads have also been black topped.
- vi) Avenue plantation has been developed along the Coal Transportation Road.
- vii) All the transport lorries are optimally loaded for spillage of coal and covered with Tarpaulin.

CONTROL OF EMISSION OF NOXIOUS GASES:

The measures taken for mitigating the noxious gases are as follows

- i) Coal transportation trucks and other vehicles are periodically maintained.
- ii) Notice Boards have been displayed on the surface: advising persons to avoid burning of coal /wood/oil/ grease impregnated waste cotton/garbage etc., in the mine premises as a method of disposal.
- iii) Blasting operations at underground is carried out with delay action detonators and ultra safe P5 explosives, which helps in mitigating the emission of gases from explosives.
- iv) Stocks of coal are not allowed to be kept on surface of the mine. If any coal heap has to be kept for some time, water spraying is done over it to control oxidation of coal.
- v) Burning of firewood and coal for domestic purpose in colonies has been stopped due to usage of L.P Gas being distributed free of cost by the company to all the employees.
 - Total manpower of the mine as on 30.09.2023 : 1416
 - Total L.P Gas connections to the workers as on 30.09.2023: 1102
- vi) Post-project air quality monitoring is being carried out by outside agency [M/s Environment Protection Training and Research Institute (EPTRI) Hyderabad] as per the frequency stipulated by MoEF &CC vide GSR 742 (E) for coal mining industry and all the necessary precautions are being taken to maintain the concentration of critical parameters well within the stipulated standards.

5. Water Quality Monitoring:

The impact of the mining activities on the water environment was assessed by studying the quality of groundwater and surface water bodies in the study area. The sampling locations were selected considering their proximity to the project sites. A total of 8 water samples i.e., 4 samples from surface and 4 samples from groundwater were collected and analyzed for various physico-chemical and bacteriological parameters.

Post project water quality monitoring stations:

(i) Surface Water Quality Monitoring Locations:

SW1	Godavari River Upstream (near Sitharampalli)	N 18° 49′ 33.5″	E 79° 28′ 21.5″
SW2	Godavari River Downstream (Shettipalli)	N 18° 53′ 41.8″	E 79° 40′ 32.6″
SW4	Ramaraopet Tank	N 18 ⁰ 49'9"	E 79º31'6"
SW5	Indaram Tank	N 18° 49′ 03.6″	E 79° 52′ 02.4″

(ii) Ground Water Quality Monitoring Locations:

SI. No	Location	Zone	Latitude	Longitude	Station Code
1.	Borewell at Mudikunta	Buffer	N 18° 53' 08.3"	E 79° 32' 46.3"	GW2
2.	Borewell at Ramaraopet	Buffer	N 18° 49' 20.8"	E 79° 30′ 53.1″	GW3

(iii) Effluents sampling locations

SI. No.	Sample code	Name of the Location	Latitude	Longitude
1.	EW-1	RK-7 Inc. Mine discharge	N 18° 43' 55.1"	E 79° 30' 54.8"

Parameters:

The ground water quality results are compared with IS: 10500 standards of groundwater quality and surface water quality with IS 2296, 1982 and CPCB Water Quality Criteria, Class-A (Drinking Water Source without conventional treatment but after Disinfection), Class – B (outdoor bathing (organized) and Class – C (Drinking Water Source with conventional treatment and after Disinfection, Class – C (Drinking Water Source with conventional treatment and after Disinfection, Class –D propagation of wild life fisheries and Class-E (Irrigation, Industrial cooling, controlled waste disposal).

Effluent water quality monitoring involves periodical assessment of quality of mine discharge water, treated workshop effluents, CHP effluent, treated colony effluents, ground water and surface water. pH, Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Chemical Oxygen demand (COD), Bio-chemical Oxygen Demand (BOD) and Oil & Grease are being

periodically monitored in effluents as per the Environmental Standards for coalmines, GSR - 742 (E) dated 25.09.2000.

All the parameters as given in Part-A of General Standards for Discharge of Environmental Pollutants, GSR 801 (E) EPA 1986 prescribed by CPCB is being analyzed for all the effluents, in addition to the above parameters, once in a year for assessing the overall quality of effluents.

Frequency of monitoring:

Monitoring of effluent water samples for four critical parameters is being done at a frequency of once in a fortnight. Effluents are also analyzed in every fortnight, whereas ground water (all parameters), surface water (all parameters) are being analyzed once in every quarter.

Monitoring Data:

The surface water, ground water quality and effluent quality data monitored during April, 2023 to September, 2023 is enclosed as **Annexure-II.** The summarized data on effluent water quality in respect of six critical parameters stipulated for coal mines is furnished hereunder.

Effluent Quality Monitoring:

The summary of the monitoring from April, 2023 to September, 2023 is as follows:

(All values in mg/l except pH)

	_				рН					
Location	Zone	Min.	Max.	Avg	98%tile	STD				
RK-7 Inc. Mine discharge	Core	7.30	76.00	13.22	61.02	5.50-9.0				
Location	Zone			TSS	(mg/l)					
Location	Zone	Min.	Max.	Avg	98%tile	STD				
RK-7 Inc. Mine discharge	Core	14.00	33.00	22.42	32.34	100				
Location	7000		TDS (mg/l)							
Location	Zone	Min.	Max.	Avg	98%tile	STD				
RK-7 Inc. Mine discharge	Core	632.0	964.0	757.33	952.12					
Location	Zono		COD (mg/l)							
Location	Zone	Min.	Max.	Avg	98%tile	STD				
RK-7 Inc. Mine discharge	Core	12.0	32.0	18.17	30.90	250				
			BOD (mg/l)							
		Min.	Max.	Avg	98%tile	STD				
RK-7 Inc. Mine discharge	Core	1.50	4.10	2.56	3.99	1.6				
Location	Zone			Oil & Gr	ease (mg/l)					
Location	Zone	Min.	Max.	Avg	98%tile	STD				
RK-7 Inc. Mine discharge	Core	1.0	1.0	1.0	1.0	1.0				

Water Pollution Control Measures:

There is no chemical process involved, the mine discharge water may contain coal fines as such the water is being utilized for drinking and domestic purpose after treatment in

slow sand filters followed by disinfections. The following control measures are being taken up at the mine to control the water pollution.

- i) The mine discharge water is being utilized for dust suppression, plantation, domestic use etc., after necessary treatment.
- ii) The excess mine discharge water is being treated in settling tanks before discharge into natural drains.
- iii) The domestic sewage from the mine is being treated in septic tank followed by soak pit.
- iv) An effective sewerage system is being maintained to treat the colony effluents by Sewage Treatment Plant at Naspur Colony of 3 MLD Capacity, and other colonies effluents treatment is being done with Septic tanks followed by soak pits.
- v) Post-project water quality monitoring is being carried through an outside agency [M/s Environment Protection Training and Research Institute (EPTRI) Hyderabad] as per the frequency stipulated by MoEF&CC for coal mining industry.

6. Phreatic surface monitoring: (Range of Water Table)

The Phreatic surface and peizometric levels monitoring is being carried out 4 times in a year pre-monsoon (May), Monsoon (August), Post monsoon (November) and winter (January) seasons in 25 existing wells and 6 peizometric wells in Srirampur Area. The Phreatic surface and peizometric levels monitoring from 2019(Winter) to 2023 (Monsoon) is enclosed as **Annexure-IV**.

7. Water Conservation Measures:

- i) Mine water is collected in sumps in side mine and pumped out after settling.
- ii) Mine water is filtered and used for domestic, washing the machinery, Plantation and Water Spraying etc,
- iii) Ground Water levels are recorded seasonally in near by villages
- iv) One ETP is provided area level at Area workshop to trap 70 liters of oil and grease in a year before letting out on surface water body.
- v) Ground Water levels recorded in the near by villages is furnished in **Annexure IV**.
- vi) All the hazardous wastes like used oil, used batteries, waste oil, empty oil barrels are being disposed off to authorized recyclers.
- vii) Details of Rain water Harvesting structures in Srirampur Area is as below:

SI. No	Location of the Rain water Harvesting Pits	No.of Rain water Harvesting pits
1.	G.M's Office	01
2.	Area Stores	02
3.	Auto garage	02
4.	RK-8 Dispensary	01

5.	SRP Dispensary (Deccan Gramina Bank)	01
6.	SC High School, SRP(ITI College)	02
7.	CER Club, Srirampur (Pragathi Stadium)	02
8.	M&R Office, Srirampur	01
9.	MVTC, SRP	01
10.	C-2 Type Quarters, RK-8 Colony	01
11.	'C' Type Quarters, RK-8 Colony	02
12.	Dispensary, Naspur Colony	01
13.	G.T Hostel, Naspur Colony	02
14.	Community Hall, Naspur Colony	01
15.	M& R Office, Naspur Colony	02
16.	Venkateswara Temple, Naspur Colony	01
17.	Sub-station premises, Godavari Colony	01
18.	Sub-station premises, Nagarjuna Colony	01
19.	Guest House, CCC	01
20.	M & R Office, CCC	01
21.	RK-5 GLSR	01
22.	Pump House, CCC	01
23.	SRP OCP-II	03
	Total	32

8. Noise Level Monitoring:

The summary of the monitoring from April, 2023 to September, 2023 is as follows:

	_		Day Time in dB(A)			Night Time in dB(A)					
Location	Zone	Min.	Max.	Avg.	98%tile	STD	STD	Min.	Max.	Avg.	98%til e
RK-7 Incline	Core	58.40	67.90	64.575	67.812	75	70	51.30	58.40	55.392	58.356
Kankur Village	Buffer	41.20	50.30	45.525	50.256	55	45	32.10	40.20	36.508	40.046
Srirampur Village	Buffer	42.10	49.60	47.142	49.490	55	45	32.50	40.50	37.517	40.434

Note: The Noise level monitoring from April, 2023 to September, 2023 is enclosed as **Annexure-III**

Noise Pollution Control Measures:

- i) The main mechanical ventilators are provided with evasee which dampens the noise.
- ii) To dampen the noise levels at CHP, impact rollers are provided at transfer points.
- iii) Height of fall is minimized at all coal transfer points and internal lining of bins and chutes are done.
- iv) In the high noise intensity working areas / zones earmuffs or earplugs or any other suitable personal protective equipment is being provided to the workmen.
- v) Regular noise level monitoring is being done periodically for taking corrective action, wherever required.

- vi) Extensive plantation of green belt and vegetation along the roads and around the offices to create a barrier or screen between the source and the receiver so that the noise is absorbed and the exposure level is minimized.
- vii) Cushioning belt liners under the tipplers are being provided under tippler resting pads to reduce the noise while tripling the tubs.
- viii)Post-project noise quality monitoring is being carried out by outside agency [M/s Environment Protection Training and Research Institute (EPTRI) Hyderabad] at a frequency of once in a fortnight as stipulated by MoEF&CC for coal mining industry.

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

SI.	Expenditure		xpenditur	e (in Rs.)	Revenue Expenditure (in Rs.)		
No	Head	Up to 2022-23	2023-24	Total	Up to 2022-23	2023-24 (apr-sep)	Total
ı	Air pollution (Prevention & control)	112600	0	112600	9881551	36455.5	9918007
II	Water pollution (Prevention & Control)	40060	0	40060	6192473	220042	6412515
III	Land development	0	0	0	0	0	0
IV	Plantation	717362	0	717362	1570505	18247.0	1588752
V	Equipment for maintenance of environment protection	0	0	0	192000	0	192000
VI	Consultancy payments	1090671	0	1090671	0	0	0
VII	OB Reclamation / Subsidence management	0	0	0	2458871	158574	2617445
VIII	Environment awareness / Environment education	0	0	0	28500	1500	30000
IX	Noise & Blasting vibration	0	0	0	327602	11211.2	338813.2
X	Others	0	0	0	50000	0	50000
	Total	1960693	0	1960693	20701502	446029.7	21147532.2

10. Socio-economic Measures:

- i) Common Central Township is provided on non-coal bearing area and it is maintained with facilities such as dispensary, schools, drinking water supply, superbazaar, recreation clubs, parks, well lighted approach roads, dust bins at various places in the colony, etc., and it is away from the mining activity.
- ii) Workmen are encouraged to undergo family planning operations by extending cash incentives and leave etc.,
- iii) Weekly vaccination for Polio, DPT, BCG, Measles, DT and Hepatitis 'B' are being given at Area Hospital and dispensaries. 1019 persons were vaccinated during the above period at area level.
- iv) Daily Street cleaning and sanitation works are looked after by Health & Civil departments in Srirampur Area. 1937.5 Cu. m of Garbage is removed from the colonies during the above period at area level.
- v) Workmen are encouraged to participate in sports and games which are conducted in Company's Pragati Stadium at Srirampur.
- vi) Existing number of quarters for this project: :90
- vii) Infrastructure development is being taken up in the surrounding areas through specially designed programme called as surrounding Habitat Assistance Programme (SHAPE)" and CSR programme, Rs.2135.78 Lakhs has been spent in the area up to 2022-23.
- viii) Public hearing minutes compliance status enclosed as Annexure-VI

11. Environment Management Committee:

Unit level Environmental Management committee has been constituted with following members.

1) Agent - Chairman.
2) Area Env. Officer - Secretary.
3) Mine Manager - Member
4) Area Civil Engineer, - Member
6) Area Survey officer - Member.
7) Area Estates Manager - Member.
8) Area Forest Officer - Member.
9) Regional Hydro geologist - Member.

The minutes of EMC meeting held on 28.08.2023 is enclosed as Annexure-V

12. Land use based on satellite Imagery:

The satellite imagery of the study area around 10 km from mine site (core zone boundary) as captured by satellite. The Land use land cover in this study area is given here below.

Land use / Land cover details of 10km Buffer zone:

		2022
Land Use Land Cover Class	Area in Hectares	Area Percentage
Water Bodies	2427.70	5.96
Mining Area	1665.55	4.09
Industrial Establishments	139.51	0.34
Built-up Land	2762.42	6.78
Open Forest	2142.06	5.26
Dense Forest	9586.37	23.53
Roads	952.15	2.34
Barren Land	566.82	1.39
Fallow Land	1616.28	3.97
Plantation	3334.56	8.19
Single Crop	4533.80	11.13
Double Crop	7466.79	18.33
Land with/without scrub	3540.64	8.69
TOTAL AREA	40734.63	100.00

Land use / land cover details of core zone.

The Satellite data of the core zone area of 450.97 ha and data are presented in table 3-3. The classified data of the Mine core zone. The extents of various Land Use/Land Cover classes pertaining to the study area.

Land Use Land Cover Class	Area in Hectares	Area in Percentage
Coal Dump	1.71	0.4
Plantations Greenbelt	32.79	7.3
Plantation Scrub	0.00	0.0
Roads	5.67	1.3
Service Buildings	5.05	1.1
Dense Forest	195.00	43.2
Open Forest	209.61	46.5
Water Bodies	1.14	0.3
Total Area	450.97	100.00

Change Detection:

Land use land cover comparison statement of Ravindra Khani – 7 Incline Underground Coal Mine Expansion Project Core Zone for 2019 and 2022.

	2019	9	2022	2	
Land Use Land Cover Class	LULC area in Hectares(2019)	Area in Percentage	LULC area in Hectares(2022)	Area in Percentage	Area change (in %) form 2019 to 2022**
Water Bodies	1990.58	4.9	2427.70	5.96	1.06
Mining Area	1114.21	2.74	1665.55	4.09	1.35
Industrial Establishments	585.55	1.44	139.51	0.34	-1.10
Built-up Land	1804.57	4.44	2762.42	6.78	2.34
Open Forest	3542.59	8.71	2142.06	5.26	-3.45
Dense Forest	9652.48	23.74	9586.37	23.53	-0.21
Roads	1204.62	2.96	952.15	2.34	-0.62
Barren Land	997.23	2.45	566.82	1.39	-1.06
Fallow Land	2369.62	5.83	1616.28	3.97	-1.86
Plantation	3929.02	9.66	3334.56	8.19	-1.47
Single Crop	4778.43	11.75	4533.80	11.13	-0.62
Double Crop	7074.6	17.4	7466.79	18.33	0.93
Land with/without scrub	1615.32	3.97	3540.64	8.69	4.72
Total Area	40658.82	99.99	40734.6275	100	

^{**} Positive and Negative value implies LULC specific class area (in %) correspondingly increases ordecrease from 2019 to 2022. The formula used for calculating LULC changes is (% of area change = Percentage of LULC class area for 2022 - Percentage of LULC class area for 2019).

14. Subsidence management details:

(a) Total seam wise area developed (including Depillaring area) so far.

SI.	Seam	Area in Ha.	Area in Ha. Depth(n		Total	Working
No			Min.	Max	Thickness (m)	Height(m)
1	2B Seam	121.36	31	190	1.50	Full
2	2A Seam	299.52	36	370	1.5 – 3.00	Full
3	2 Seam	351.28	37	375	4.5 – 6.70	Full
4	4 Seam	149.23	60	330	1.5 – 2.00	Full

a. Total seam wise area depillared so far since inception.

SI.No.		Area	Depti	n in m.	Total	Working	By Caving /
	Seam	in Ha.	Min.	Max.	Thickness (m.)	Height (m.)	Stowing
1	2B	25.36	47	163	1.50	Full	Caving
2	2A	42.42	34	255	1.5 to 3.2	Full	Caving
2	2	29.48	30	375	4 E to 6 70	454-00	Caving
3	3	2	2 60.08 30 375 4.5 10 6.70	60.08	4.5 to 6.70	4.5 to 6.0	Stowing
4	4	19.10	93	330	1.5 to 2.00	Full	Stowing

(c) Total surface area effected due to subsidence so far : 270.03 Ha

• Max crack width observed so far : 0.30m

• Max subsidence occurred so far : 3.55 m

• Whether the vegetation effected if any : Nil

Whether the vegetation effected if any
 If effected, give details
 Not applicable

(d) Mode of treatment given to substantiate subsidence effect: Crack filling by manual and dozing:

Total man-shifts worked in subsidence area for crack filling

Total dozer shifts worked for subsidence reclamation

Area filled up with OB/ Subsoil material

Quantity of OB/Subsoil dumped

Maximum height of dump

: 321

: Nil

: Nil

(e) i) Expenditure incurred for last six months for subsidence treatment: Rs.1,58,574/-

ii) Expenditure incurred for subsidence treatment so far

: Rs.27,90,939/-



MONITORING DATA OF RAVINDRA KHANI – 7 (RK-7) INCLINE FOR THE PERIOD APRIL, 2023 TO SEPTEMBER, 2023

List of Annexures:

SI.No.	Description	Annexure No.
1.	Ambient Air Quality	I
2.	Surface, Ground Water & Effluents Quality.	II
3.	Noise	III
4.	Attitude of Phreatic Surface & Piezometric Levels	IV
5.	EMC Meeting minutes	V
6.	WLCP	VI
7.	Status of Public hearing minutes	VII
8.	ESCROW	VIII
9.	Plantation plan	Fig.I

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POST PROJECT AMBIENT AIR QUALITY MONITORING DATA FOR THE PERIOD FROM APRIL, 2023 TO SEPTEMBER, 2023 FOR RK-7 INCLINE.

 Location of the Ambient Air Quality monitoring Station

: Top of the Manager Office, RK-7 Inc

❖ Direction (w.r.t. RK–7 Incline.): Besides of the project.

SI.	Station	Date of		Parameters	(μg/Cu. Mtr	`.)
No.	Name	Sampling	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
1.	RK-7 Incline	05.04.2023	208	49.8	13.4	17.8
		25.04.2023	217	50.1	11.6	17.3
		06.05.2023	198	50.2	10.7	16
		23.05.2023	208	53.1	11.9	19.1
		06.06.2023	184	48.6	12.7	17.2
		23.06.2023	214	56.7	13.8	18.4
		08.07.2023	94	39.4	11.2	16.4
		24.07.2023	82	33.8	11	18.3
		08.08.2023	162	47.2	10.8	17.2
		23.08.2023	176	52.8	12.8	18.4
		08.09.2023	171	51.7	11.3	19.2
		23.09.2023	158	52.1	8.8	15.2
	Minimum		82.00	33.80	8.80	15.20
	Maximum		217.00	56.70	13.80	19.20
	Average		172.67	48.79	11.67	17.54
	98% tile		216.34	55.91	13.71	19.18
	Coal mine sta	ndards GSR				
	742(E), dtd.25 NAAQS, Dtd.1	5.09.2000 &	250		120	120

Location of the Ambient Air

Quality monitoring Station: Top of the Residential House at Mudikunta Village.

Direction (w.r.t. RK-7 Incline.): North East of the project

SI.	Station	Date of		Parameters	(μg/ Cu. Mtı	r.)
No.	Name	Sampling	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
2.	Mudikunta	04.04.2023	76	41.7	14.1	19.1
	Village	24.04.2023	73	38.8	11.2	14.6
		05.05.2023	68	36.2	9.2	13.8
		22.05.2023	77	45.8	12.1	16.7
		05.06.2023	70	37.4	10.7	14
		22.06.2023	82	35.8	8.4	14.6
		07.07.2023	35	16.1	7.7	12.1
		22.07.2023	65	29.2	8.1	12.9
		07.08.2023	81	32.1	8.4	14.1
		22.08.2023	86	42.5	8.4	13.4
		07.09.2023	68	30.5	10.6	16.1
		22.09.2023	62	32.1	9.6	14.3
	Minimum		35.00	16.10	7.70	12.10
	Maximum		86.00	45.80	14.10	19.10
	Average		70.25	34.85	9.88	14.64
	98% tile		85.12	45.07	13.66	18.57
	NAAQ Standa dtd.18.11.200	•	100	60	80	80

- Location of the Ambient Air Quality monitoring Station: Top of the Residential house Kankur...
- ❖ Direction (w.r.t. RK-7 Incline.): North North East of the project.

SI.	Station Name	Date of	Р	arameters	(µg/Cu. Mt	:r.)
No.		Sampling	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
3.	Kankur Village	04.04.2023	73	39.2	12.9	17.8
-	J	24.04.2023	75	40.2	13.7	18.9
		05.05.2023	79	37.8	10.1	14.7
		22.05.2023	82	44.9	11.7	15.6
		05.06.2023	71	38.1	9.6	13.5
		22.06.2023	80	36.2	11.8	18.4
		07.07.2023	32	18.1	8.6	14.2
		22.07.2023	63	30.1	10.3	16.4
		07.08.2023	62	30.1	7.6	13.7
		22.08.2023	81	41.7	10.6	16.7
		07.09.2023	63	25.4	9.4	15.2
		22.09.2023	68	30.1	7.6	13.4
	Minimum		32.00	18.10	7.60	13.40
	Maximum		82.00	44.90	13.70	18.90
	Average		69.08	34.33	10.33	15.71
	98% tile		81.78	44.20	13.52	18.79
	NAAQ Standar dtd.18.11.2009	ds, CPCB	100	60	80	80

- ❖ Location of the Ambient Air Quality monitoring Station: Top of the CER Club, Srirampur Colony.
- ❖ Direction (w.r.t. RK-7 Incline.): South west-west of the project.

SI.	Station Name	Date of	P	arameters	(μg/Cu. Mt	r.)							
No.		Sampling	PM ₁₀	PM _{2.5}	SO ₂	NO ₂							
4.	Srirampur	06.04.2023	83	47.1	10.8	15.4							
	colony	26.04.2023	81	43.1	9.4	17.4							
	Colony	08.05.2023	76	41.8	12.1	16.4							
		24.05.2023 07.06.2023	84	48.5	126	18.1							
			07.06.2023	07.06.2023	80	43.7	11.7	17.4					
		24.06.2023	76	32.8	10.4	16.9							
		10.07.2023	52	20.4	10	16.2							
		25.07.2023	46	20.1	9.1	15.4							
		09.08.2023	89	42.3	8.7	15.1							
		24.08.2023	85	46.9	12.7	19.2							
		09.09.2023	81	39.5	12.3	18.5							
		24.09.2023	81	41.3	9.4	16.7							
	Minimum		46.00	20.10	8.70	15.10							
	Maximum		89.00	48.50	12.70	19.20							
	Average								70	76.17	38.96	10.60	16.89
	98% tile		88.12	48.19	12.62	19.05							
	NAAQ Standard dtd.18.11.2009	ds, CPCB	100	60	80	80							

- Location of the Ambient Air Quality monitoring Station: Top of the residential House, RK-8 Colony. Direction (w.r.t. RK-7 Incline.): North west-west of the project.

SI.	Station Name	Date of	F	Parameters	(μg/Cu. Mt	tr.)
No.		Sampling	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
5.	RK-8 colony	05.04.2023	72	39.7	9.0	14.1
		25.04.2023	79	39.1	10.0	15.2
		06.05.2023	83	43.7	10.5	15.2
		23.05.2023	76	38.1	10.4	16.4
		07.06.2023	72	37.1	9.2	14.1
		23.06.2023	81	38.4	9.4	15.4
		08.07.2023	39	17.3	11.1	16.4
		24.07.2023	37	18.6	9.1	16.7
		08.08.2023	74	38.5	9.1	16.7
		23.08.2023	68	24.6	11.3	17.1
		08.09.2023	73	32.7	8.9	15.4
		23.09.2023	56	22.6	10.1	16.2
	Minimum		37.0	17.3	8.9	14.1
	Maximum		83.0	43.7	11.3	17.1
	Average		67.5	32.5	9.8	15.7
	98% tile		82.6	42.8	11.3	17.0
	NAAQ Standardtd.18.11.2009	ds, CPCB	100	60	80	80

Physico-Chemical and Bacteriological Characteristics of Surface Water

Physico-Chemical and Bacteriological Characteristics of Surface Water as per CPCB Water Quality Criteria Date of sampling: 28.04.2023.

					0000					RES	ULT	
OL NI -	D	1114	Test		CACR M	ater Qua	lity Criteria	3	SW-1	SW-2	SW-4	211
SI.No	Parameters	Unit	Method	Class A	Class B	Class C	Class D	Class E	Godavari River Upstream	Godavari River Downstream		SW-5 Indaram Tank
	Date of sampling								28.04.2023	28.04.2023	28.04.2023	28.04.2023
1	Ph	-	4500-H ⁺ B	6.5-8.5	6.5-8.5	6.0 - 9.0	6.5-8.5	6.0-8.5	8.0	8.0	7.8	7.8
2	Electrical Conductivity	μmhos/c m	2510-B	-	-	-	-	2250 µmhos/c m	1455	1070	288	1012
3	Dissolved Oxygen (DO)	mg/L	4500-O.C	6 mg/l or more	5 mg/l or more	4 mg/l or more	4 mg/l or more	-	6.9	6.6	5.9	5.9
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	-	-	1.6	2.2	3.1	3.2
5	Total Coliforms	MPN/ 100mL	9221 B	50 or less	500 or less	5000 or less	-	-	94	140	280	220
6	Free Ammonia (as N)	mg/L	4500-NH ₃ -F	-	-	-	1.2 mg/L or less	-	BDL	BDL	BDL	BDL
7	Boron as B	mg/L	3120-B	-	-	-	-	Less than 2 mg/L	0.16	0.28	0.22	0.12
8	SAR	-	-	-	-	-	-	Less than 26	1.14	1.12	1.58	1.35

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

S. No	Parameters	Unit	Test Method	SW-1 Godavari River Upstream	SW-2 Godavari River Downstream	SW-4 Ramaraopet Tank	SW-5 Indaram Tank
	Date of sampling			28.04.2023	28.04.2023	28.04.2023	28.04.2023
1	Colour	Hazen	2120. B	5	5	5	10
2	Odour	TON	2150. B	No odour observed	No odour observed	No odour observed	No odour observed
3	Temperature	°C	2550. B	25.1	25.0	25.1	25.1
4	Turbidity	NTU	2130. B	0.26	0.44	0.72	4.6
5	Total Dissolved Solids at 180° C	mg/L	2540.C	865	626	172	590
6	Total Suspended Solids at 105° C	mg/L	2540. D	17	11	9	40
7	Chemical Oxygen Demand	mg/L	5220. D	4	8	12	16
8	Chlorides as Cl ⁻	mg/L	4500-Cl ⁻ .B	260	197	38	180
9	Sulphates as SO ₄ ²⁻	mg/L	4500-SO ₄ ²⁻ .E	106	86	16	69
10	Fluoride as F	mg/L	4500-F ⁻ .C	0.52	0.41	0.32	0.64
11	Calcium as Ca	mg/L	3500-Ca.B	84	80	14	58
12	Magnesium as Mg	mg/L	3500-Mg.B	51	47	11	48
13	Sodium as Na	mg/L	3500-Na.B	167	97	14	54
14	Potassium as K	mg/L	3500-K.B	33.7	11.8	1.1	2.6
15	Nitrites as NO ₂	mg/L	4500-NO ₂ B	BDL	BDL	0.88	15.5
16	Nitrates as NO ₃	mg/L	4500-NO ₃ B	43	10.3	6.9	4
17	Total Phosphates	mg/L	4500-P-D	BDL	BDL	0.017	0.024
18	Ammonical Nitrogen as NH₃-N	mg/L	4500-NH ₃ -C	BDL	BDL	BDL	BDL
19	Phenolic compounds as C ₆ H ₅ OH	mg/L	5530-D	BDL	BDL	BDL	BDL
20	Oil & Grease	mg/L	5520. B	<1	<1	<1	<1
21	Carbonates as CO ₃	mg/L	2320. B	nil	nil	nil	nil
22	Bi-carbonates as HCO ₃	mg/L	2320. B	180	135	95	265
23	Fecal Coliforms	MPN/100mL	9221 E	11	17	46	17
24	Zinc as Zn	mg/L	3120. B	0.11	0.10	0.13	0.12
25	Iron as Fe	mg/L	3120. B	0.58	0.35	0.61	0.46

S. No	Parameters	Parameters Unit		SW-1 Godavari River Upstream	SW-2 Godavari River Downstream	SW-4 Ramaraopet Tank	SW-5 Indaram Tank
	Date of sampling			28.04.2023	28.04.2023	28.04.2023	28.04.2023
26	Arsenic as As	mg/L	3120. B	BDL	BDL	BDL	BDL
27	Lead as Pb	mg/L	3120. B	BDL	BDL	BDL	BDL
28	Cadmium as Cd	mg/L	3120. B	BDL	BDL	BDL	BDL
29	Total Chromium as Cr	mg/L	3120. B	BDL	BDL	BDL	BDL
30	Nickel as Ni	mg/L	3120. B	BDL	BDL	BDL	BDL
31	Copper as Cu	mg/L	3120-B	BDL	BDL	BDL	BDL
32	Selenium as Se	mg/L	3120-B	BDL	BDL	BDL	BDL

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

Organoleptic and Physical Parameters

				IS: 10500	IS: 10500	RESULT		
SI. No.	Parameters	Unit Test Method		Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source	GW-2 Mudigunta Village	GW-3 Ramaraopet Village	
	Date of sampling					28.04.2023	28.04.2023	
1.	Colour	Hazen	2120. B	5	15	<5	<5	
2.	Odour	TON	2150. B	Agreeable	Agreeable	Agree.	Agree.	
3.	рН	-	4500-H [†] B	6.5 to 8.5	No relaxation	7.4	7.5	
4.	Taste	FTN	2160. B	Agreeable	Agreeable	Agree.	Agree.	
5.	Turbidity	NTU	2130. B	1	5	0.42	0.58	
6.	Total Dissolved Solids at 180° C	mg/L	2540.C	500	2000	652	988	

General Parameters Concerning Substances Undesirable in Excessive Amounts

				IS: 10500	IS: 10500	RES	ULT
SI. No.	Parameters	Unit Test Method		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	GW-2 Mudigunta Village	GW-3 Ramaraopet Village
	Date of sampling					28.04.2023	28.04.2023
1.	Calcium as Ca	mg/L	3500-Ca.B	75	200	54	107
2.	Magnesium as Mg	mg/L	3500-Mg.B	30	100	52	99
3.	Chlorides as Cl-	mg/L	4500-CIB	250	1000	124	207
4.	Sulphates as SO42-	mg/L	4500-SO42E	200	400	88	104
5.	Fluoride as F-	mg/L	4500-FC	1.0	1.5	0.79	0.86
6.	Nitrates as NO3	mg/L	4500-NO3B	45	No relaxation	37	48
7.	Total Alkalinity as CaCO3	mg/L	2320. B	200	600	310	480
8.	Total Hardness as CaCO3	mg/L	2340. C	200	600	354	689
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-CIB	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	0.10
16.	Barium as Ba	mg/L	3120. B	0.7	No relaxation	0.17	0.22
17.	Boron as B	mg/L	3120-B	0.5	2.4	BDL	0.18
18.	Iron as Fe	mg/L	3120-B	1.0	No relaxation	0.55	0.38
19.	Zinc as Zn	mg/L	3120-B	5	15	0.25	0.13
20.	Copper as Cu	mg/L	3120-B	0.05	1.5	BDL	BDL
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

				IS: 10500	IS: 10500	RE	SULT
S. No.	Parameters	Unit	Test Method	Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source	GW-2 Mudigunta Village	GW-3 Ramaraopet Village
	Date of sampling					28.04.2023	28.04.2023
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, ο,p-DDT, p,p' –DDT, Endosulfan, β- Endosulfan, Aldrin, Dieldrin	μg/L	6630. D	Absent	0.001	ND	ND
	2,4-D, Carboryl (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, Fluoranthene, Fluorene, Indeno (1,2,3-(d) Pyrene, Naphthalene, Phenanthrene, Pyrene, Methyl Naphthalene	μg/L	6440.C	-	-	ND	ND

Bacteriological Quality of Drinking water

				IS: 10500	IS: 10500	RESULT		
S. No.	Parameters	Unit	Test Method	Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source	GW-2 Mudigunta Village	GW-3 Ramaraopet Village	
	Date of sampling			28.04.2023	28.04.2023			
1	Total Coliforms	MPN/100 mL	9221 B	-	-	<1.8	<1.8	
2	Fecal Coliforms	MPN/100 mL 9221 E		-	-	<1.8	<1.8	

III. POST PROJECT WATER QUALITY (EFFLUENTS) MONITORING DATA FOR THE PERIOD FROM APRIL, 2023 TO SEPTEMBER, 2023 FOR RK-7 INCLINE.

Location of the water

Quality monitoring Station: RK-7 incline mine discharge (filter bed outlet)

SI.	Station	Date of		Concentra	ation in m	g/Liter (Ex	(cept pH)	
No.	name	sampling	pH (at 25 ⁰ C)	TSS At 105 ⁰ C	TDS (At 180° C)	COD	BOD	Oil & Grease
1.	RK-7	15.04.2023	7.7	20	632	16	2.1	<1
	Incline	29.04.2023	7.5	14	741	12	2.7	<1
	Mine 15.05.2023		7.9	23	690	18	2.1	<1
	discharge	31.05.2023	7.6	16	848	12	2	1
	alconargo	15.06.2023	7.3	20	964	12	1.5	<1
		30.06.2023	7.5	30	638	15	1.9	<1
		15.07.2023	7.3	33	745	19	2.6	<1
		31.07.2023	7.3	19	685	12	2.1	<1
		14.08.2023	7.7	27	910	20	3.2	<1
		31.08.2023	76	23	763	23	4.1	<1
		15.09.2023	7.5	15	678	27	2.8	1
		29.09.2023	7.3	29	794	32	3.6	<1
	Minimum		7.30	14.00	632.00	12.00	1.50	1.00
	Maximum		76.00	33.00	964.00	32.00	4.10	1.00
	Average		13.22	22.42	757.33	18.17	2.56	1.00
	98% tile		61.02	32.34	952.12	30.90	3.99	1.00
801(E	MoEF GSR 742(E) and GSR 801(E) Effluent standards for coal mines		5.5-9.0	100		250	30	10
Test I	Method		4500H ⁺B	2540-D	2540-C	5220-D	IS 3025	2540-C

Analysis Report of monthly summary of 3.0MLD Sewage treatment Plant – Naspur Colony from April, 2023 to September, 2023. All Values in Mg/Liter (Except pH)

Month	Description	Ch	aracteristic	s of Raw Se	wage		Characte	ristics of Aera	ation Water			Characteris	stics of Treat	ed Water	
		рН	TSS	COD	BOD	рН	DO	MLSS	MLVSS	TDS	рН	DO	TSS	COD	BOD
	Min	7.8	205	205	205	7.4	1.7	3040	380	5	6.7	1.2	11	11	28
Apr, 23	Max	7.9	220	220	215	7.6	1.9	3220	399	3170	7.2	1.3	13	13	32
	Aver	7.85	214	211.33	209.17	7.53	1.84	3151.83	391.73	2318.50	6.94	1.25	11.87	11.67	29.87
	Min	7.7	210	205	205	7.4	1.7	2960	380	45	6.7	1.2	11	11	28
May, 23	Max	7.7	210	205	205	7.4	1.7	2960	380	45	6.7	1.2	11	11	28
	Aver	7.82	215.00	215.28	208.13	7.50	1.84	3103.63	392.00	2664.75	6.98	1.25	12.00	11.88	30.00
	Min	7.7	210	210	210	7.4	1.7	2956	382	5	6.9	1.2	11	11	28
June, 23	Max	7.9	220	220	220	7.6	1.8	3264	400	3184	7.2	1.3	13	13	32
	Aver	7.80	214.06	215.33	215.00	7.46	1.75	3134.87	394.23	2728.11	6.97	1.25	12.06	12.17	29.73
	Min	7.7	210	205	205	7.4	1.7	2546	382	2452	6.8	1.2	11	11	28
July,23	Max	7.9	220	220	220	7.6	1.9	3940	400	3102	7.1	1.3	13	13	32
	Aver	7.81	215.00	214.38	212.50	7.51	1.79	2934.13	392.26	2801.13	6.95	1.25	12.00	12.33	29.38
	Min	7.7	210	205	205	7.4	1.7	2590	300	2580	6.9	1.2	11	11	28
Aug, 23	Max	7.9	220	220	215	7.6	1.9	3342	400	3292	7.1	1.3	13	13	32
	Aver	7.79	213.67	213.75	210.00	7.47	1.79	3003.26	386.55	2924.00	6.97	1.25	12.33	11.83	30.40
	Min	7.7	205	205	205	7.4	1.7	2760	382	2708	6.9	1.2	11	11	28
Sep,23	Max	7.9	215	220	215	7.6	1.9	3168	400	3080	7.1	1.3	13	14	32
	Aver	7.79	212.00	211.33	210.00	7.47	1.82	2951.83	392.10	2897.14	6.99	1.25	11.93	12.50	30.13
	standard	-	-	-	-	-	-	-	-		5.5-9.0	1	100	30	250

ANNEXURE-III

NOISE LEVEL MONITORING DATA FOR THE PERIOD FROM APRIL, 2023 TO SEPTEMBER, 2023 AROUND RK-7 INCLINE

	RK-7	Incline		Kankı	ır villag	e	Sriran	npur villa	ge
Fortnight	Date	L _{day}	L _{night}	Date	L _{day}	L _{night}	Date	L _{day}	L _{night}
Apr–I	06.04.2023	61.7	52.3	05.04.2023	47.8	33.4	07.04.2023	47.6	35.5
Apr-II	26.04.2023	62.4	54.3	25.04.2023	44.6	36.1	27.04.2023	49.1	40.2
May –I	09.05.2023	63.1	54.8	08.05.2023	43.1	35.4	10.05.2023	45.9	38.7
May -II	24.05.2023	65.4	54.9	23.05.2023	41.9	34.4	25.05.2023	48	39.2
June-I	08.06.2023	61.7	56.5	07.06.2023	42.6	37.4	09.06.2023	46.2	40.1
June-II	24.06.2023	65.4	56.7	23.06.2023	45.6	39.5	26.06.2023	46.7	40.5
July–l	10.07.2023	67.5	56.4	08.07.2023	50.3	39.5	11.07.2023	48.1	38.4
July –II	25.07.2023	67.9	58.4	24.07.2023	46.9	38.5	26.07.2023	47.3	36.5
Aug-I	09.08.2023	67.1	58.2	08.08.2023	50.1	39.5	10.08.2023	49.6	38.6
Aug -II	24.08.2023	67.2	56.3	23.08.2023	45.1	32.1	25.08.2023	46.8	32.5
Sep-I	09.09.2023	58.4	51.3	09.09.2023	41.2	32.1	11.09.2023	42.1	33.8
Sep -II	24.09.2023	67.1	54.6	23.09.2023	47.1	40.2	25.09.2023	48.3	36.2
	Average	64.57	55.39		45.52	36.50	47.142	37.517	47.142
Limits		75	70		55	45		55	45

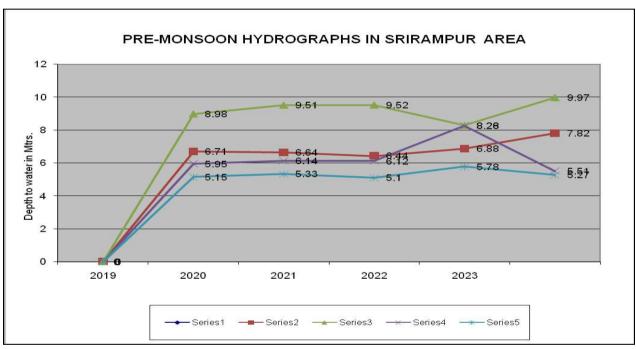
ANNEXURE-IV

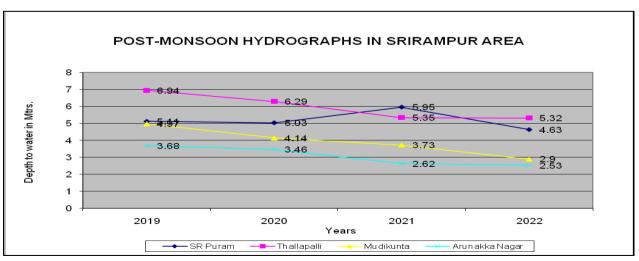
A. ATTITUDE OF PHREATIC SURFACE IN SRIRAMPUR AREA

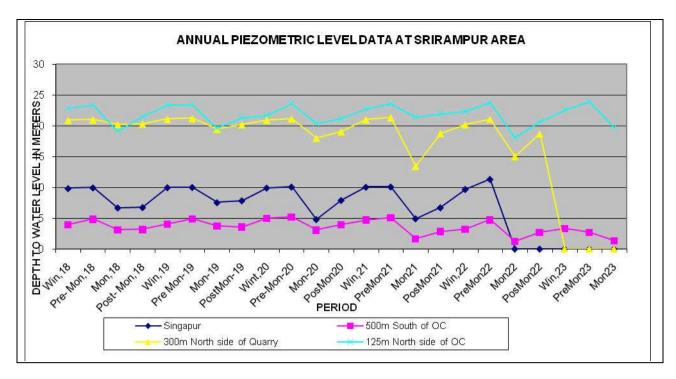
SI.	Name of	Owner's	Type of	Dimensi	Total		Measurin	Period		Dep	th to W	ater (M)	
No	village	Name	Well	ons (M)	Depth (M)	Geology	g point(MA GL)	Penou	2019	2020	2021	2022	2023
							/	Winter	5.09	5.01	4.31	3.70	3.84
	Arunakka	Nilianaiah	Damastia	1.00	9.40	Barren	0.00	Pre-Monsoon	5.15	5.33	5.10	5.78	5.27
1	nagar near GM office	N.Lingaiah	Domestic		9.40	Measur es Fm	0.30	Monsoon	2.89	2.54	1.52	1.50	1.64
	Givi Office					63 1 111		Post- Monsoon	3.68	3.46	2.62	2.53	
								Winter	2.13	2.07	2.44	1.62	1.74
2	RK-6 Colony	O No SA-13	Domestic	1.20	10.00	Barkar	0.30	Pre-Monsoon	2.51	2.48	2.63	4.06	3.53
~	rtit-o Colorly	Q.110.0A-13	Domestic	1.20		Fm	0.50	Monsoon	1.14	1.19	0.84	0.74	0.81
								Post- Monsoon	1.94	1.90	1.56	1.47	
	RK-6							Winter	2.53	3.05	2.93	2.83	2.96
3	Colony/Kur	Karre	Domestic	1.00	6.50	Barkar Fm	GL	Pre-Monsoon	3.07	3.11	3.17	3.85	1.90
	mawada	Posham						Monsoon	2.88	1.93	1.20	1.32	1.28
								Post- Monsoon	3.01	2.71	2.10	1.55	A D
	RK-6							Winter Pre-Monsoon	2.51	2.44	4.50 4.66	1.96 3.68	AB
4	Colony/Kur	Eshwaraiah	Domestic	1.00	6.50	Barkar	GL	Monsoon	2.07	1.96	1.44	3.00 WD	<u></u>
	mawada					Fm		Post- Monsoon	2.41	2.66	1.44	AB	
-		Aasami						Winter	6.47	6.35	6.37	6.03	6.18
	S.R.Puram	Rajamallam						Pre-Monsoon	6.71	6.64	6.44	6.88	7.82
5	Naspur X	ma/	Domestic	1.2	13.50	Talchir	0.6	Monsoon	4.29	4.84	4.45	4.21	4.29
	Road	Ippalapalli	2011100410	1.2	.0.00		0.0	Post- Monsoon					4.23
		Kanakaiah							5.11	5.03	5.95	4.63	
	Sitharampall							Winter	7.43	7.38	7.14	2.98	2.92
6	i / on the	Surimilla	Domestic	2.5x3.5	6.90	Sullavai	0.60	Pre-Monsoon	7.51	7.79	7.31	7.27	4.47
"	way to	Lachanna	Domestic		0.00	Oullavai	0.00	Monsoon	6.18	4.34	1.75	1.63	2.23
	intake well							Post- Monsoon	7.21	4.58	2.48	2.71	
	Sitharampall	M.Gopaiah		1.20				Winter	12.84	12.64	12.00	10.29	10.31
7			Domestic		11.50	Sullavai	GL	Pre-Monsoon	12.98	13.04	12.63	12.28	13.30
	to Thallapalli		Bomoodo	1.20	11.00		02	Monsoon	10.16	6.81	5.70	4.54	5.00
	'							Post- Monsoon	11.15	10.82	6.95	7.13	
	Tallan alli/On							Winter	2.49	2.19	2.37	1.91	2.08
8	Tallapalli/On the way to	Rukum. Ramaiah	Domestic	2.40	9.10	Sullavai	0.70	Pre-Monsoon	2.70	2.67	2.73	2.93	2.17
ľ	Intake well		Domestic	2.40	9.10	Sullavai	0.70	Monsoon	1.13	2.08	1.35	1.18	2.03
								Post- Monsoon	1.31	2.14	1.85	1.80	
	Tallapalli/en							Winter	7.89	7.56	7.22	5.85	5.97
9	d of the	B.Rajaiah	Domestic	1.20	10.50	Sullavai	1.10	Pre-Monsoon	8.98	9.51	9.52	8.28	9.97
9	village	D.Majaian	Domestic	1.20	10.50	Juliavai	1.10	Monsoon	3.1	3.15	4.55	3.74	4.40
	towards OC							Post- Monsoon	6.94	6.29	5.35	5.32	
l	Singapuram/							Winter	3.94	4.07	5.16	3.33	3.18
10	opp.panchay	Nammala	Domestic	2.40	7.40	Sullavai	0.30	Pre-Monsoon	4.61	5.51	5.33	5.48	4.17
	at office	Srinivasu				FM		Monsoon	2.13	2.71	1.70	1.30	1.83
								Post- Monsoon	2.44	2.83	2.35	2.48	
	Singapuram/		A					Winter Pre-Monsoon	AB AB	AB AB	AB AB		
11	near teak	Aggu Sailu	Agricultur e	4.00	10.50	Sullavai	GL						
	plantation		-					Monsoon Post- Monsoon	AB AB	AB AB	AB AB		
								Winter	6.31	5.29	6.24	5.08	5.22
	Ramaraopet	Gunta			5.20	Talchir		Pre-Monsoon	5.38	5.72	6.28	6.92	
12			Domestic	1.30		FM	0.60	Monsoon	2.71	2.97	2.52	1.02	1.08
								Post- Monsoon	5.24	5.11	AB	3.48	1.00
								Winter	Dry	Dry	AB		
	Guttedarpalli							Pre-Monsoon	Dry	Dry	AB		
13		R.Venkati	Domestic	2.50	8.50	Barkar Fm	0.50	Monsoon	Dry	Dry	AB		
	tank							Post- Monsoon	Dry	Dry	AB	AB	
									ے، y	ے، y	, 10	, ()	

SI. No	Name of village	Owner's Name	Type of Well	Dimensi ons (M)	Total Depth	Geology	Measuri ng point(M	Period		Dept	h to Wa	iter (M)	
NO	village	Name	vveii	OHS (IVI)	(M)		AGL)		2019	2020	2021	2022	2023
								Winter	6.17	6.13	6.14		6.17
		A.D. : II. /				Barren		Pre-Monsoon	6.89	7.37	7.35	7.54	3.60
14	Indaram	A.Rajamallu/ opp.BP bunk	Domestic	3x4	11.50	Measur es Fm	0.40	Monsoon	3.51	3.85	3.65	3.28	3.44
								Post- Monsoon	3.96	3.94	-	4.10	
								Winter	AB	AB	AB	-	
	Indram/ onn	M.Sankar/Po dusani				Barren		Pre-Monsoon	AB	AB	AB		
15	Indram/ opp. Garden	Bhaskar reddy	Domestic	1.00	13.00	Measur es Fm	0.90	Monsoon	AB	AB	AB		
		reddy						Post- Monsoon	AB	AB		1	
								Winter	AB	AB	AB	-	
16	Indaram/IK- 1&1A X-	Rajanna	Agricultur	6.50	8.50	Barren Measur es Fm	0.70	Pre-Monsoon	AB	AB	AB		
	roads		е		0.50			Monsoon	AB	AB	AB		
								Post- Monsoon	AB	AB			
								Winter	9.70	9.67	9.84		9.74
		Rice mill/ Kamalakar			10.50	Barren Measur es Fm	0.60	Pre-Monsoon	Dry	Dry	10.53		11.37
17	Tekumatla		Domestic	1.60				Monsoon	9.21	8.22	9.00	7.81	7.68
								Post- Monsoon	9.63	9.75		8.10	
								Winter	2.13	3.66	2.55	3.74	3.88
	Tekumatla /behind	V.Ramireddy			11.00	Barren Measur es Fm	GL	Pre-Monsoon	5.32	5.71	5.28	5.32	
18	Panchayat office		Domestic	1.00				Monsoon	1.66	2.34	2.10	1.88	3.10
								Post- Monsoon	3.64	2.41		2.72	
								Winter	6.79	6.68	6.34	4.76	4.86
19	Indaram	Govt. Well	Domestic	2.00	9.00	Barren Measur es Fm	0.50	Pre-Monsoon	Dry	7.13	6.89	7.56	7.37
13	ilidalalii	Govt. Well		2.00				Monsoon	Dry	3.82	3.92	3.51	3.73
								Post- Monsoon	5.44	4.95			
								Winter	6.24	6.18	6.08	6.24	6.33
20	Indaram/sid e of HP	M. Uppalaiah	Domestic	1.20	7.00	Barren Measur	0.60	Pre-Monsoon	6.61	6.74	6.57	6.84	6.40
20	Petrol bunk	Oppaididit	2011103110	1.20	7.00	es Fm	0.00	Monsoon	4.74	4.31	2.05	1.91	2.01
								Post- Monsoon	4.81	4.67			
								Winter	3.71	3.62	3.46	2.90	2.98
21	Rasulpalli	Madhukar	Domestic	1.00	8 00	Barren Measur	0.70	Pre-Monsoon	5.14	5.54	5.22	4.37	3.05
۱ ک	i rasuipalli	IVIAUTUKAI	Domestic	1.00	8.00	Measur es Fm	0.70	Monsoon	1.96	2.18	1.56	1.41	1.48
								Post- Monsoon	3.22	2.89			
22	Mudikunta	G.Rajaiah	Domestic	1.00	11.40	Barren Measur	0.40	Winter	5.90	5.89	4.93	5.00	5.08
		<u> </u>						Pre-Monsoon	5.95	6.14	6.12	8.26	5.51

						es Fm		Monsoon	4.54	3.61	2.72	2.50	2.70
								Post- Monsoon	4.97	4.14	3.73	2.90	
					Winter	2.98	AB	AB					
23	Mudikunta	Ellamma	Domestic	1.00	4.50	Barren Measur es Fm	0.40	Pre-Monsoon	AB	AB	AB	1	
		temple						Monsoon	AB	AB	AB		
								Post- Monsoon	AB	AB		1	
		Govt. Well /Regunta.Mal lesh		4.00	9.00/ 10.0	Barren Measur es Fm	0.40/ 0.50	Winter	Dry	6.55	AB	6.75	6.82
24	Kankur/near		Domestic					Pre-Monsoon	Dry	AB	7.30	7.31	2.85
24	school		Domestic					Monsoon	7.39	AB	3.83	1.00	2.00
								Post- Monsoon	7.84	AB		-	
								Winter	3.93	3.84	4.26	2.96	2.99
25	05 1-i	Behind AE	Domostio	4.50	12.00	Kamthi FM	0.80	Pre-Monsoon	4.05	5.11	5.91	4.87	3.80
25	Jaipur	Off. Near bus stop	Domestic	1.50				Monsoon	2.34	2.18	1.50	0.81	0.88
		σιορ						Post- Monsoon	2.66	3.06		1.08	





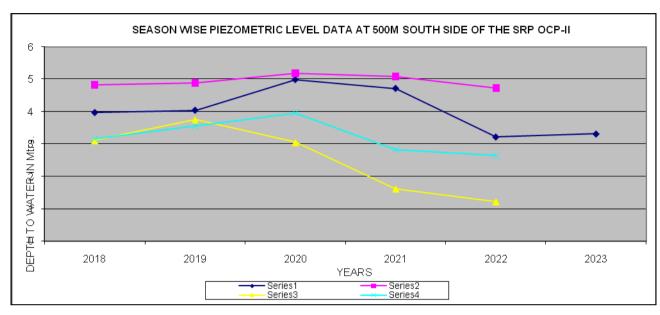


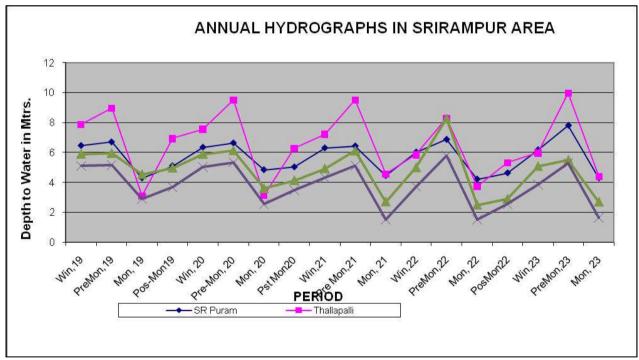
A. PIEZOMETRIC LEVEL DATA OF SRIRAMPUR AREA.

Well No.	Location	Depth (m)	Dia (m)	Measuri ng point (m above	Period	Depth to Water (m)						
		(111)	(111)	ground level)		2018	2019	2020	2021	2022	2023	
	About 500 m			,	Winter	3.97	4.04	4.98	4.71	3.22	3.31	
	south of the guarry and 150m				Pre- Monsoon	4.82	4.88	5.18	5.08	4.72	2.70	
SRP_OCP.I PW-5	north of Indaram	208	0.10	0.30	Monsoon	3.11	3.75	3.05	1.62	1.22	1.31	
1 **-5	Tank (N18 ⁰ 49'35.43" – E 79 ⁰ 30'57.60")				Post- Monsoon	3.16	3.56	3.96	2.83	2.64		
	Near Singapur				Winter	9.82	9.97	9.91	10.04	9.68	*NA	
SRP OCP.I	village (N18 ⁰ 49'46.47" –	50	0.40	0.20	Pre- Monsoon	9.94	10.01	10.07	10.08	11.32	AB	
I PW-7	È 79 ⁰ 30'25.52")	50	0.10	0.20	Monsoon	6.68	7.53	4.79	4.92	*NA	AB	
					Post- Monsoon	6.74	7.84	7.89	6.71	*NA		
	Near Project				Winter	22.90	23.35	21.72	22.73	22.32	22.52	
SRP OCP.I	Office sub-station. About 125m from		0.10	0.40	Pre- Monsoon	23.41	23.43	23.57	23.62	23.75	23.90	
I PW-8	N side of quarry				Monsoon	19.13	19.67	20.4	21.42	18.06	19.73	
	surface limit. (N18 ⁰ 51'4.12" – E 79 ⁰ 29'39.90")				Post- Monsoon	21.48	21.33	21.14	21.97	20.63		
	Road to SRP bus				Winter	20.90	21.07	20.94	20.99	20.19	NA*	
SRP OCP.I	stand, about 300m from N side			0.50	Pre- Monsoon	20.98	21.17	21.11	21.32	21.05	NA*	
I PW-10	of quarry surface limit (N18 ⁰ 51'7.10" – E 79 ⁰ 30'11.26")	50	0.1		Monsoon	20.21	19.44	17.98	13.42	15.00	NA*	
					Post- Monsoon	20.28	20.19	1.03	18.77	18.70		
	West side				Winter	1.97	2.32	2.38	2.23	2.09	2.18	
*SRP_CSIR	External dump area, Near to	50		0.2	Pre- Monsoon	2.38	2.53	2.57	2.64	3.17	2.60	
O PW-11	Thallapalli village.	30	0.1		Monsoon	1.05	NA	0.91	1.15	1.05	NA*	
	(N18 ⁰ 49'54.731" – E 79 ⁰ 29'11.085				Post- Monsoon	2.00	2.07	2.00	1.89	1.88		
	West side				Winter	2.07	2.87	2.84	2.68	2.80	2.73	
*SRP_CSIR	External dump area. Near to	50	0.1	0.2	Pre- Monsoon	2.28	2.91	2.93	3.01	4.65	2.80	
O PW-12	Thallapalli village (N18 ⁰ 49'50.573" -	30	0.1	0.2	Monsoon	2.08	2.12	2.08	1.81	2.03	1.83	
	E 79 ⁰ 29'06.202")				Post- Monsoon	2.14	2.35	2.17	2.29	2.66		
					Winter	2.99	3.05	3.17	3.63	3.92	3.97	
*SRP_CSIR O PW-13	West side External dump	50	0.1	0.2	Pre- Monsoon	3.28	3.76	3.84	4.07	4.56	3.70	
U FVV-13	area. Road to				Monsoon	3.11	2.98	3.08	2.97	4.21	2.83	
	Godavari river				Post-	3.06	3.11	3.27	3.85	4.48		

	(N18 ⁰ 49'45.286" – E 79 ⁰ 29'06.811")				Monsoon						
	West side				Winter	4.73	4.77	4.68	4.37	4.62	4.54
*SRP_CSIR	External dump area. Road to	50	0.1	0.0	Pre- Monsoon	5.25	4.82	4.91	5.77	6.25	5.80
O PW-14	Godavari River	50	0.1	0.2	Monsoon	4.12	4.18	4.13	3.92	4.06	3.38
	(N18 ⁰ 49'32.305" – E 79 ⁰ 28'50.154")				Post- Monsoon	4.19	4.24	4.28	4.22	4.45	

Note : NA:Not applicable and AB: Abonded.
Piezometric well No.SRP OCP-I, PW-1,2,3,4,6&9 were abonded





MINUTES OF THE ENVIRONMENTAL MANAGEMENT COMMITTEE MEETING HELD ON 28.08.2023 AT 5.30 PM AT GENERAL MANAGER'S OFFICE TO REVIEW THE EC, CFE, CFO AND F.C CONDITIONS COMPLIANCE STATUS OF ALL MINES / PROJECTS OF SRIRAMPUR AREA.

At the outset Addl Manager (ENV) while welcoming the members explained about the need of Environmental Management Committee Meeting (EMC), complying of EC/CFE/CFO/FC conditions and discussed following points. General Manager instructed the concern to take up the works as discussed.

With reference to the letters cited, Area level Committee meeting was conducted under the chairmanship of GM SRP with the officers concerned (copy of list enclosed) from 5.30pm to 7.30pm on 28.08.2023 at general manager's office SRP on Non-compliance status of conditions stipulated in EC/FC/CFE/CFO of Mines of Srirampur Area.

The minutes of the meeting are given below.

While welcoming the participants to the area level committee meeting, Area Environment Officer in his opening remarks highlighted the points discussed in the Apex committee meeting and given small presentation on awareness of environmental laws.

Thereafter Chairman welcomed the members and advised all the Agents, Managers to strictly follow the rules connected to environment. Violation of Environment procedures will be viewed seriously and stringent action will be taken against the violation.

It is a fundamental responsibility of every citizen of India to protect environment. We have to follow environmental laws meticulously.

Some Laws we can implement, some are to be forwarded to higher ups and some are time taking.

The person personally will be held responsible for their own violation. Responsibility is demarcated.

AREA LEVEL ENVIRONMENTAL COMMITTEE MEETING AGENDA

AREA ENGINEER (E&M)

- Installation of flow meters on mine water discharge pipes.
- Crushers at the existing CHP and that to be constructed shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, and transfer points.
- ETP shall also be provided for CHP wastewater. Mine discharge water shall be treated to prescribed standards before discharge into any natural water course.
- The company shall provide water sprinkling system at coal stacking yards (CFO Condition)
- CFO Condition No:9 of Schedule- B, The Company shall provide water sprinkling system at Coal yard near GM Office and other coal Yards. (CFO Condition)
- The Industry shall provide Impact Rollers at transfer points to dampen the noise levels at Coal handling points (CFO Condition).

 The industry may explore the possibility of generating the solar power for their energy requirements.

AREA ENGINEER (CIVIL)

- ETP shall also be provided for workshop and CHP wastewater. Mine discharge water shall be treated to prescribed standards before discharge into any natural water course.
- The sewage treatment plant (STP) installed in the township shall meet the requirements of the expansion project as well as all colonies.
- The construction of retaining wall at the toe of the dumps and OB benches.
- The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource.
- CFO Condition No:9 of Schedule- B, The Company shall provide water sprinkling system at Coal yard near GM Office and other coal Yards. (CFO Condition)

PROJECT OFFICER/MANAGER, SRP OC

- Proper stacking of Top soil.
- Garland drains of suitable size.
- Settling ponds (20m L X 20m W x 2m D)
- An area Drainage Study shall be conducted and protective measures shall be taken to prevent mine inundation.
- The construction of retaining wall at the toe of the dumps and OB benches.
- Crushers at the existing CHP and that to be constructed shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, and transfer points.
- Besides carrying out regular periodic health check up of their workers, 10% of the
 workers identified from workforce engaged in active mining operations shall be
 subjected to health check up for occupational diseases and hearing impairment, if
 any, through an agency such as NIOH, Ahmadabad within a period of one year
 and the results reported to this Ministry and to DGMS.
- ETP shall also be provided for workshop and CHP wastewater. Mine discharge water shall be treated to prescribed standards before discharge into any natural water course.
- The industry shall ensure covering of coal trucks with tarpaulin to avoid spillages
 of coal and fugitive emissions due to transportation of coal. (CFO Condition).

AGENTS/MANAGERS (UG)

- Sufficient coal pillars shall be left un-extracted around the airshaft (within the subsidence influence area) to protect from any damage from subsidence, if any.
- Drills should be wet operated
- ETP shall also be provided for workshop and CHP wastewater. Mine discharge water shall be treated to prescribed standards before discharge into any natural water course.

- CFO Condition No:9 of Schedule- B, The Company shall provide water sprinkling system at Coal yard near GM Office and other coal Yards. (CFO Condition) (RK 7 Gr Agent)
- Monthly water discharge and consumption details shall be prepared and submit to Corporate (Env Dept)
- The industry shall ensure covering of coal trucks with tarpaulin to avoid spillages
 of coal and fugitive emissions due to transportation of coal. (CFO Condition).

PROJECT ENGINEER, SRP OC

- Crushers at the existing CHP and that to be constructed shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, and transfer points
- The company shall provide water sprinkling system at coal stacking yards (CFO Condition)
- The Industry shall provide Impact Rollers at transfer points to dampen the noise levels at Coal handling points (CFO Condition).

DGM (E&M) SRP CHP

- Crushers at the existing CHP and that to be constructed shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, and transfer points.
- ETP shall also be provided for CHP wastewater. Mine discharge water shall be treated to prescribed standards before discharge into any natural water course.
- The company shall provide water sprinkling system at coal stacking yards (CFO Condition)
- The Industry shall provide Impact Rollers at transfer points to dampen the noise levels at Coal handling points (CFO Condition).
- The industry shall ensure covering of coal trucks with tarpaulin to avoid spillages of coal and fugitive emissions due to transportation of coal. (CFO Condition).

While reviewing the different environment activities as per conditions stipulated in EC/FC/CFE/CFO chairman advised to take up the following works.

CHAIRMAN'S INSTRUCTIONS/ADVISES

AREA ENGINEER (E&M)

- Advised to put proposal with required input Data for Installation of flow meters on mine water discharge pipes.
- High efficiency bag filters Advised to visit Orient cement/STPP along with DGM (CHP), SRP, PE (SRP OC), Area environment officer and prepare a Draft proposal for further course of action.
- Provide fixed and single valve operated water sprinkling system at Weigh Bridge near GM Office in consultation with DGM (Civil) and Agent RK 7 Group.

 Impact Rollers at transfer points to dampen the noise levels at Coal handling points – Advised to Study discuss with DGM (CHP), SRP, PE (SRP OC) and put up the status.

AREA ENGINEER (CIVIL)

- The sewage treatment plant (STP) Advised to initiate proposal for another STP with suitable capacity at strategic location to serve CCC Township, Krishna Colony, RK 5 Colony, RK 8 Colony, SRP Colony and CISF Colony.
- Rain water harvesting pits
 – Advised to recondition present pits 32 NOs and propose for some more pits.
- The chairman, advised to take up construction of rock toe walls, rain water harvesting pits, rock fill dams, cleaning of drains, settling ponds, check dams, culverts, etc., as and when required. And to make field visits by audit committee formed.

PROJECT OFFICER/MANAGER, SRP OC PROJECT ENGINEER, SRP OC

- · Advised to comply all conditions discussed in the meeting.
- ETP shall be proposed at OB out sourcing HEMM parking Area.
- The chairman, advised to take up construction of rock toe walls, rain water harvesting pits, rock fill dams, cleaning of drains, settling ponds, check dams, culverts, etc., as and when required.
- The chairman, advised to ensure covering of coal trucks with tarpaulin to avoid spillages of coal and fugitive emissions due to transportation of coal. (CFO Condition).

AGENTS/MANAGERS (UG)

- The chairman, advised to ensure covering of coal trucks with tarpaulin to avoid spillages of coal and fugitive emissions due to transportation of coal. (CFO Condition).
- Advised to comply all conditions discussed in the meeting.

DGM (E&M) SRP CHP

- Advised to comply all conditions discussed in the meeting
- Put up proposal for ETP for new CHP.
- The chairman, advised to ensure covering of coal trucks with tarpaulin to avoid spillages of coal and fugitive emissions due to transportation of coal. (CFO Condition).

AREA ENVIRONMENT/ FOREST OFFICER

 To follow up and monitor everybody concerned to comply all above discussed conditions.

Chairman further advised HODs and members shall have positive approach towards environment protection and to co-ordinate with project authorities for rectifying Non compliance conditions of EC/FC/CFE/CFO of all mines of Srirampur area. A

compliance report of the minutes may please be communicated to the office of the undersigned at the earliest.

Finally Area Environment Officer requested all members to kindly follow the procedures and try to comply the guidelines. Kindly take this as serious issue on the matter of non-compliance of guidelines. Also informed the copy of minutes of this meeting will be sent to G.M. (Environment) and Corporate Level Apex Committee.

Meeting ended with vote of thanks.

The following committee members/ Guests were present:

- 1 General Manager
- 2 Agent, RK-7 Group
- 3 AGM(E&M), SRP
- 4 DGM(E&M), AWS
- 5 DGM(E&M). SRP CHP
- 6 DGM (Civil), SRP
- 7 Area Survey Officer
- 8 Addl Manager Env, SRP
- 9 Dy Manager Estates ,SRP
- 10 Coll. Mgr., / RK-7
- 11 Dy. Supdt. Survey Officer/ RK-7

3.9.1 Flora & Fauna in Core Zone

Habitat: Core zone is covered forestland of area about 396.19 ha. The habitat is well maintained with artificial rising of plants around the Core area with natural forest species. The tree species listed below are above 5 mts height and herbs and shrubs attracts the birds and butterflies. This area is good habitat for reptiles and amphibians.

FLORA

i). Trees:

S.No.	Scientific Name	Family	Common Name	Status
1.	Acacia auriculiformis	Mimosaceae	Ari	С
2.	Azadirachta indica	Meliaceae	Vepa	С
3.	Cassia fistula	Caesalpiniaceae	Rela	VC
4.	Cassia siamea	Caesalpiniaceae	Seema tangedu	С
5.	Chloroxylon swietenia	Flindersiaceae	Billudu	С
6.	Diospyros	Ebenaceae	Tuniki aku	UC
	melanoxylon			
7.	Madhuca indica	Sapotaceae	Ippa	С
8.	Morinda pubescens	Rubiaceae	Toguru	С
9.	Ficus religiosa	Moraceae	Raavi	С
10.	Pongamia pinnata	Fabaceae	Kanuga	Α
11.	Prosopis chilensis	Mimosaceae	Thumma	С
12.	Tectona grandis	Verbenaceae	Teaku chettu	C

ii). Shrubs:

S.No.	Scientific Name	Family	Common Name	Status
13.	Abutilon indicum	Malvaceae	Tutturubenda	VC
14.	Barleria prinonitis	Acanthaceae	Mullagorinta	С
15.	Calotrpis gigantean	Asclepiadaceae	Jilledu	Α
16.	Cassia auriculata	Caesalpiniaceae	Thangedu	Α
17.	Cassine glauca	Celastraceae	Nerini,Neridi	С
18.	Jatropa gossypifolia	Euphorbiaceae	Nepalamu	С
19.	Pavetta indica	Rubiaceae	Kommi	С
20.	Hyptis sueolens	Lamiaceae	Konda tulasi	Α
21.	Lantana camara	Verbenaceae	Ranabheri	С
22.	Plectranthu parviflora	Rubiaceae	Balusu	С
23.	Vitex negundo	Verbenaceae	Vavili	Α
24.	Zizyphus maurtiana	Rhamnaceae	Regu	С
25.	Ricinus communis	Euphorbiaceae	Amudamu	Α

iii). Herbs:

S.No.	Scientific Name	Family	Common Name	Status
26.	Croton	Euphorbiaceae	Kukkamirapa	Α
	banplandianum			
27.	Evolvulus alsinoides	Convolvulaceae	Vishnukranthamu	VC
28.	Indigofera tinctorea	Fabaceae	Nili	С
29.	Solanum surattense	Solanaceae	Ramamulaga/Kasi	С
30.	Tephrosea purpurea	Fabaceae	Vempali	VC

iv). Lianas (Climbers/ Woody climbers):

S.No.	Scientific Name	Family	Common Name	Status
31.	Cuscuta reflexa	Solanaceae	Akashavalli	R
32.	Hemidesmus indicus	Periplocaceae	Sugandhipala	С
33.	Tylophora indica	Asclepiadaceae	Kukkapala	C

v). Grasses;

S.No.	Scientific Name	Family	Common Name	Status
34.	Aristida ascensions	Poaceae	Cheepurugaddi	С
35.	Cynodon dactylon	Poaceae	Garika	VC
36.	Cyperus javanicus	Cyperaceae	Thunga musthalu	VC

vi). Aquatic Plants:

S.No.	Scientific Name	Family	Common Name	Status
37.	Hydrilla verticillata	Hydrocharitaceae	Pacchimokka	R
38.	Ipomoea cornea	Convolvulaceae	Samudra pala	С
39.	Phyla nodiflora	Verbenaceae	Bokkenaku	UC
40.	Typha angustata	Typhaceae	Jambhu	С

B. FAUNA

S.No	Scientific Name	Common Name	Status
1	Felis chaus	Jungle cat	R
2	Herpestes edwardsi	Common mongoose	С
3	Hystrix indica	Porcupine	UC
4	Lepus nigricollis	Hare	С
5	Ardeola grayii	Indian Pond Heron	VC
6	Bubulcus ibis	Cattle egret	VC
7	Egretta gazetta	Small egret	VC
8	Galloperdix spadicea	Red spur fowl	С
9	Gallus sonneratii	Grey jungle fowl	С
10	Naja naja	Cobra	С
11	Ptyas mucosus	Rat snake	С
12	Vipera ruselli	Russels viper	UC
13	Hemidactylus brooki	Brook's Gecko	С
14	Hemidactylus flaviviridis	Northern house Gecko	С
15	Calotes versicolor	Common Garden Lizard	VC
16	Calotes rouxi	Forest Calottes	VC
17	Sitana ponticeriana	Fan-throated lizard	VC
18	Mabuya carinata	Common Skink	С

^{*}A: ABUNDANT;C: COMMON; VC: VERY COMMON; UC: UNCOMMON; R: RARE

There are no endemic / endangered flora & fauna species found in the Core Zone

3.9.2 Flora & Fauna in Buffer Zone :

Habitat: Buffer zone falls in forestland. The forest type is Dry deciduous mixed forest comprises vegetation in dense patches, scrubs and type formations.

C. FLORA

i). Trees:

S.No.	Scientific Name	Family	Common Name	Status
1.	Acacia nilotica	Mimosaceae	Nallatumma	С
2.	Albizia amera	Mimosaceae	Chikireni	С
3.	Albizia lebbeck	Mimosaceae	Dirsina, Sirisa	С
4.	Bambusa arundianacea	Poaceae	Bongu Veduru	VC
5.	Cassia auriculata	Caesalpiniaceae	Thangedu	VC
6.	Cassia fistula	Caesalpiniaceae	Rela	С
7.	Chloroxylon swietenia	Flindersiaceae	Billudu	С
8.	Diospyros melanoxylon	Ebenaceae	Tuniki aku	С
9.	Eucalyptus globules	Myrtaceae	Neelagiri thailamu	UC
10.	Ficus benjamina	Moraceae	Bembedu	UC
11.	Ficus religiosa	Moraceae	Raavi	UC
12.	Limonia acidissima	Rutaceae	Velaga	UC
13.	Litsea glutinosa	Lauraceae	Narra alagi	R
14.	Morinda pubescens	Rubiaceae	Toguru	R
15.	Phoenix sylvestris	Palmae	Eethachettu	С
16.	Pithecelobium dulce	Mimosaceae	Seemachinta	С
17.	Pongamia pinnata	Fabaceae	Kanuga	VC
18.	Prosopi chilensis	Mimosaceae	Thumma	С
19.	Tamarindus indica	Caesalpiniaceae	Chinta/Tamarind	С
20.	Tectona grandis	Verbenaceae	Teaku chettu	С

ii). Shrubs:

S.No.	Scientific Name	Family	Common Name	Status
21.	Acacia caesia	Mimosaceae	Korinda	С
22.	Agave americana	Agavaceae	Kithanara	С
23.	Alangium salvifolium	Alangiaceae	Uduga	С
24.	Barleria prionitis	Acanthaceae	Mullagorinta	UC
25.	Calotropis gigantea	Asclepiadaceae	Jilledu	VC
26.	Carissa carandas	Apocynaceae	Wakkayalu	С
27.	Cleistanthus collinus	Euphorbiaceae	Nalla vadisa	С
28.	Hyptis sueolens	Lamiaceae	Konda tulasi	С
29.	Ricinus communis	Euphorbiaceae	Amudamu	С
30.	Vitex negundo	Verbenaceae	Vavili	VC
31.	Wrightia tinctorea	Apocynaceae	Palakodisa	С
32.	Ziziphus mauritiana	Rhamnaceae	Regu	С

iii). Herbs:

S.No.	Scientific Name	Family	Common Name	Status
33.	Croton banplandianum	Euphorbiaceae	Kukkamirapa	С
34.	Evolvulus alsinoides	Convolvulaceae	Vishnukranthamu	С
35.	Solanum surattense	Solanaceae	Ramamulaga/Kasi	С
36.	Tephrosea purpurea	Fabaceae	Vempali	VC

iv). Lianas (Climbers/ Woody climbers)

S.No.	Scientific Name	Family	Common Name	Status
37.	Coccinea grandis	Cucurbitaceae	Donda	С
38.	Cuscuta reflexa	Solanaceae	Akashavalli,	VC
39.	Hemidesmus indicus	Periplocaceae	Sugandhipala	С
40.	Tylophora indica	Asclepiadaceae	Kukkapala	С

v). Aquatic Plants

S.No.	Scientific Name	Family	Common Name	Status
41.	Hydrilla verticillata.	Hydrocharitaceae	Pacchimokka	C
42.	Ipomoea cornea	Convolvulaceae	Samudra pala	С
43.	Phyla nodiflora	Verbenaceae	Bokkenaku	С
44.	Typha angustata	Typhaceae	Jambhu	С

vi). Crops/Cultivated Plants

/				
S.No.	Scientific Name	Family	Common Name	Status
45.	Gossypium herbacium	Malvaceae	Cotton	С
46.	Mangifera indica	Anacardiaceae	Mamidi	С
47.	Zea maize	Poaceae	Mokkajonna	С

D. FAUNA:

S.No.	Scientific Name	Common Name	Status
1	Axis axis	Chital or Spotted deer	С
2	Felis chaus	Jungle cat	UC
3	Presbytis entellus	Common langur	С
4	Sus scrofa	Wild boar	С
5	Aeridotheres tristris	Common myna	С
6	Copsychus saularis	Mag-pie robin	С
7	Corvus splendens	Common crow	VC
8	Dicrurus adsimilis	Black drogon	С
9	Pitta branchyura	Indian pitta	С
10	Psittacula cupatria	Large Indian parakeet	UC
11	Psittacula krameri	Rose ringed parakeet	UC
12	Pycnotus cafer	Redvented bulbul	UC
13	Saxicoloides fulicata	Indian robin	VC
14	Steptopelia senegalensis	Ring dove	С
15	Turdoides curdatus	Common babbler	VC
16	Turdoides striatus	Jungle babbler	VC
17	Naja naja	Binoccllate cobra	С
18	Sitana ponticeriana	Fan throated lizard	VC
19	Typhlina amina	Common blind snake	VC

^{*}A: ABUNDANT;C: COMMON; VC: VERY COMMON; UC: UNCOMMON; R: RARE

As seen from the above list, there are no endemic or endangered species present in this zone.

IMPLEMENTATION STATUS OF THE PUBLIC VIEWS / OPINIONS / OBJECTIONS RAISED DURING THE ENVIRONMENTAL PUBLIC HEARING FOR THE EXISTING RK-7 INCLINE UNDERGROUND COAL MINE OF SRIRAMPUR AREA HELD ON 12-03-2008 AT 2:00 P.M. AT MARKET YARD (WEEKLY MARKET) NEAR PRATIBHA HIGH SCHOOL, RK-6 COLONY, SRIRAMPUR, MANCHERIAL MANDAL, ADILABAD DISTRICT. AT PRESENT IN NASPUR MANDAL. MANCHERIAL DISTRICT. T.S.

SI.	Representation of the Public	Status of implementation
No 1	Sri G. Jaggaiah, Sarpanch, Singapur village welcomed the proposed expansion of the mines for increasing production capacity of existing SRP-1, SRP 3 & 3A, RK-5, RK-6 and RK-7 Inclines.	Monitoring of air, noise and water is being regularly carried out as per the standards of TSPCB.
	He stated that due to coal transport lorries on the roads, pollution is increasing and road accidents are increasing.	Transportation lorries are being covered with tarpaulins to prevent air pollution.
	Central lighting system is to be arranged from SHAPE funds.	Central lighting system has been arranged in RK-6 colony through SHAPE funds.
	Bore well water level is decreasing in this area due to underground mines.	About 48 nos., Level of bore water is being monitored and found to vary due to seasonal effects but not due to mining operation.
	He stressed the need for supply of drinking water to the surrounding villages.	Funds are being allocated for Rural Water Supply Scheme under SHAPE. However Nos.67 bore holes with hand pumps provided at Naspur colony, Nagarjuna colony, hutment area, and surrounding villages of Srirampur area.
	He also opined that few more SULABH Complexes are to be constructed.	
	He stated that drains are to be constructed from RK -6 hutment area.	Drains were constructed under SHAPE
2	Sri T.Rajaiah, MPTC, Srirampur stated that only 25% workmen are provided with company quarters and most of the workmen are living in their own houses/ huts. Water supply was given to some of the families in the hutment area.	More than 55% out of 14306 employees, 7897 were provided accommodation in quarters. Overhead tank (45.0 Lakhs) and pipe lines (30.0 Lakhs) arranged at Srirampur colony surroundings of 23 habitats under shape fund. Roads and drains are being
	Roads and drains are constructed by SCCL under SHAPE fund.	Roads and drains are being constructed.
	From G.M. Office to RK.6 colony statue, more number of heavy vehicles are plying and causing health problem due to dust. Water spraying is to be done to control dust pollution	Water spraying on asphalt roads will damage the road. Hence, the route of the lorries has been diverted via RK-8, RK-6, and

SI. No	Representation of the Public	Status of implementation
	along roads. Recreation facilities are to be improved in the colonies. Training is being given to the children of workmen and suggested that SCCL should help in getting bank loans for self employment. Plantation work contracts are to be given to the unemployed children of the employees.	Sthupam to CSP instead of RK-6 colony. Recreation club, parks have been developed in the colonies. A Gym is provided in CER club.
3	Sri Ch.Linga Murthy, Jt. Secretary. CPI / MPTC, RK-6 colony requested to provide Street lighting along RK-6 'kotha road'. As the coal transport lorries / heavy vehicles are plying more frequently, water spraying is to be done at least three times a day.	Street lighting has been provided along RK-6 Kotha road. Water spraying on asphalt roads will damage the road. Hence, the route of the lorries has been diverted via RK-8, RK-6, and Sthupam to CSP instead of RK-6 colony. Renovation of ICU ward at Mancherial Govt. hospital (60.0 Lakhs) provided under shape fund.
	Health club, parks and play grounds are to be improved in the colonies. Side drains were constructed under SHAPE	Recreation club, parks and swimming pool have been developed in the colonies. A Gym is provided in CER club. Two Community halls provided at Naspur colony and one community hall and play ground (i.e., Shanthi stadium)at Krishna colony. Maintenance is being done by
	fund and their maintenance also to be done by SCCL.	outsourcing.
	He stressed that either SCCL or through RTC, school buses are to be provided for college girls and boys from Krishna colony to Mancherial. Central lighting and road dividers are to be provided from Indaram to Naspur colony.	The road from Indaram to Naspur is a national highway (NH-16).
	Lighting system and drinking water supply to be arranged at weekly market yard of RK.6 colony.	Provided.
	He also requested to repair bore wells in hutment areas and expressed that pada yatras should also be made in hutment areas.	Bore wells are being maintained as and when required. Pada yatras are being continued in colonies.
4	Sri Siddam Sankaraiah, Upa-Sarpanch, Singapur stated that earlier there was a road from RK.6 to RK.7 & RK.8 directly for coal transportation; but not through RK.6 colony. He requested to divert the coal transport	The route of the lorries has been diverted via RK-8, RK-6, and Sthupam to CSP instead of RK-6 colony.

SI. No	Representation of the Public	Status of implementation
	route. He also requested to provide infrastructural facilities in their private colonies where SCCL workers are residing and to provide Central lighting system along RK.6 colony main road. He requested for construction of drains and other facilities under SHAPE or Govt. funds.	Central lighting system was provided in RK-6 colony main road. Construction of drains completed at RK-6 hutment area under shape works
5	Sri Rachakonda Gopala Rao, Sarpanch, Naspur stated that in Lakshminagar, Prasanthnagar, Gandhinagar and Vidyanagar, there is no drinking water facility and requested for drinking water supply. In Shirke and Nagarjuna colonies water supply is to be improved. He requested to develop the weekly market in Naspur colony and to arrange for central lighting system in the Shirke colony. He requested for laying of road from Shirke	However Nos.67 bore holes with hand pumps provided at Naspur colony, Nagarjuna colony, hutment area, and surrounding villages of SRP OCP. Sufficient drinking water being supplied as per availability of water in Godavari river. Weekly market is running in Naspur colony.
	colony to SRP 3 &3A mine.	Road was laid from Shirke colony to SRP-3 & 3A mine.
6	Sri Muthe Rajesam, Sarpanch, Teegalpahad village informed that at Teegalpahad, filter bed was constructed 20 years back when sufficient water was supplied. But now water is supplied for only 6 hours per day. He stated that in this gram panchayath, out of 17,500 population, about 2000 are SCCL employees. He requested to provide sufficient water to their village.	Sufficient water being supplied.
	He stated that trees are not planted along the roads.	Plantation is being done as per the EIA/EMP.
	He requested for laying of road from Shirke colony to SRP 3 &3A mine.	Road laid.
7	Sri B.Nagesh, MPTC, Teegalpahad village stated that water supplied by SCCL is not sufficient to their village and bore wells are dried. He complained that due to SCCL mines, ground water level is declining.	Level of bore water is being monitored and found to vary due to seasonal effects but not due to mining operation.
	As population is more, the existing water supply of 6 hours is not sufficient.	However Nos.67 bore holes with hand pumps provided at Naspur colony, Nagarjuna colony, hutment area, and surrounding villages of Srirampur area.

SI. No	Representation of the Public	Status of implementation
	He alleged that proper compensation for land taken for mining purposes was not given.	Compensation was paid as per the guidelines of the Govt. authorities.
	He thanked SCCL for constructing sulabh complexes.	-
	He requested to construct Dhobi ghats in Teegalpahad village and also to provide one ambulance by SCCL to use in emergencies.	-
8	Sri Tippani Ramaiah, ZPTC, Mancherial stated that water scarcity is more in Teegalpahad village and requested to provide sufficient water. He requested to construct check dams in the village and also to provide 4 acres of land for cremation ground.	8 nos. of check dams were constructed at RK-5 near the bungalows area in the vagu for augmentation of ground water (2.72 lakhs).
	He also requested for laying CC road from Naspur to SRP 3 and to provide lighting along road.	Provided.
9	Sri B. Sadanandam, MPTC stated that the width of road is very less in RK.7 area and requested for widening the road and control dust problem.	Widening is completed and road way dust sweeping is started through out- sourcing.
	Central lighting to be provided from Indaram to Srirampur and also from Naspur to Nagarjuna colony.	The road from Indaram to Naspur is a national highway (NH-16).
	He requested for sufficient water supply and also to construct compound wall around Naspur colony.	Sufficient water supply being done, subject to availability of water in Godavari river.
10	Sri Gummadi Srinivas, MPTC, RK.6 opined that the views of the public should be taken into consideration.	Are being considered.
	He told that public hearing meeting and its purpose was not informed to public.	Informed as per the guidelines of the MoEF&CC and TSPCB, Nizamabad.
	By starting OC mines, SRP Area is getting more profits and hence welfare amenities are to be provided to the surrounding villages.	Being provided.
	SCCL should establish higher education colleges in coal belt areas.	One polytechnic college has been established in Srirampur area.
	All facilities to be provided to the retired workers colonies.	Facilities are being provided as per the company norms.
	In RK.6 Colony, park and playground is to be	Play ground has been provided at

SI. No	Representation of the Public	Status of implementation
	developed.	RK.6 colony.
	Central lighting is to be provided from GM office to Indaram. Coal transport lorry speed is to be limited, and speed breakers are to be provided. Workers in colonies are facing problem due to power cuts and it is to be minimised.	The road from Indaram to GM office is a national highway (NH-16). Speeds are limited and speed breakers were provided wherever required all along the coal transport road. Power cut is restricted to only two in a day
11	Sri Jakkula Rajesham, Ex-Sarpanch, Thallapalli stated that though there is a reserved forest, no plantation is there and requested SCCL for plantation in forest land. SCCL has given plots to the workmen, but no amenities were provided in the hutment area. He further requested SCCL to protect the colonies above SRP 3 & 3A incline by sand atoming.	Plantation is being done during 2012 monsoon in the reserve forest land near OCP and 40 Ha during 2014 and 30 Ha during 2015 was done at RF land near cross road of Chennur & Godavarikhani. Further plantation will also be taken up in consultation with the Forest department, Mancherial. All amenities like roads, power lines and bore wells being provide
	stowing.	at R&R plot site.
	He emphasized for more plantation and laying of black topped road.	Sand stowing is being done to protect the colonies lying above the mines.
	He requested for providing central lighting system from CCC 'X' Road to CCC Town ship and Srirampur to Mancherial under SHAPE. He also requested for construction of compound wall around community hall in RK-6 colony.	Plantation is being done as per the EIA/EMP, and also all connected roads to SRP3&3A black topped road provided. Street light being provided The road from Srirampur to Mancherial is a national highway (NH-16). Compound wall was constructed around the community hall.
12	Sri Gadasu Ravinder, Srirampur opined that pollution is increasing due to overloading of transport lorries. Dust suppression arrangements are to be made and plantation is to be increased to minimize air pollution.	Being complied.
	Drains and roads are to be repaired in hutment areas.	Being repaired.
	He requested to lay road from Royal talkies to SRP 3 &3A and to provide water supply at	Road was laid. Water supply provided.

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	'Shivalayam' near RK.5 Incline.	
	Counseling is to be given to the children of SCCL employees regarding higher education.	Being given.
13	Sri P.Rajasekhar, SF, RK.5 Incline said that SCCL has made numerous plantation in the area which reduces air pollution and sound pollution. The company constructed sewage treatment plant. SCCL received national awards on environmental activities. He stated that water spraying to be done on coal transport route to minimize air pollution. He requested on behalf of all to remove power cut during examination period for the sake of children. He welcomed the proposed expansion of the existing mines.	- Water spraying on asphalt roads will damage the road. However, the lorries are being covered with tarpaulins, so that minimize the spillage of coal from lorries. Being considered -
14	Sri M. Malla Reddy, Vice President, AITUC, Srirampur requested all to make their efforts in bringing up the organization. He opined that plantation of trees should be improved in colonies and in vacant lands particularly near CSP.	Plantation is being done as per the EIA/EMP.
	As the plying of heavy vehicles have increased, the quality of laying of roads also to be improved.	Being complied.
	As more accidents are occurring near Srirampur bus stand, road dividers should be provided and fitness of the coal transporting vehicles should be checked.	
	Medical and health camps are to be arranged.	Are being arranged.
	Retired employees and contract workmen also should be provided medical facility.	Being provided.
	Water supply to be arranged for villagers of Teegalpahad and Naspur. He promised to give full support for the proposed expansion of the mines.	Bore wells are drilled through Rural water supply scheme under SHAPE. However Nos.67 bore holes with hand pumps provided at Naspur colony, Nagarjuna colony, hutment area, and surrounding villages of Srirampur area
15	Sri Dasari Kishan, RK-6 Colony stated that in Singapur village, drainage system and sanitation to be improved.	-
	He thanked management for construction of Sulabh complexes and requested to arrange	Repaired time to time.

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	to repair doors. He told that other than SCCL employees are also to be made eligible for participating in 'Dial your G.M. Programme'. He felt happy with the reforms in the company and he also requested to discourage liquor shops in colonies.	Only SCCL employees are eligible for participating in 'Dial your G.M. Programme'.
16	Sri Srinivasa Yadav, Sarpanch, Mudikunta welcomed the proposed expansion of the existing underground mines. He stated that due to underground mines, water scarcity is prevailing in the area. He requested that excess water from RK-NT to be re-coursed to Mudikunta tank. He stated that there is no pollution problem due to mining. He stated that due to SCCL, tremendous development works were taken place in Indaram, Ramaraopet and other villages and requested for development of roads and supply of Godavari water to their village also under SHAPE fund. He requested to cover the coal transport lorries properly with tarpaulins.	Level of bore water is being monitored and found to vary due to seasonal effects but not due to mining operation - Lorries are being covered with tarpaulins.
17	Sri K.Laxma Reddy, Mining Sirdar, RK.5 stated that in RK5 mine, greenbelt has been developed within the mine premises. There is no pollution problem in the mine. He requested for plantation along road from RK.5 to CHP. Coal transport vehicles should be covered with tarpaulins and water spraying is to be done on roads from mine to CHP. He also requested to arrange lighting from Krishna colony to CHP.	Avenue plantation from RK.5 to CHP completed. Is being complied. Lighting from Krishna colony to CHP Provided.
18	Sri Devasani Rajesham, RK.6 felt happy for the huge plantation in his mine. He opined that to control dust pollution, effective water spraying is to be made by tankers and requested for plantation in vacant places. He requested for repairing of drains and construction of compound wall around the community hall and park in RK.6 Colony and welcomed the expansion of RK-6 mine.	- Water spraying is being done wherever necessary. Complied.
19	Sri Datta Srinivas, Ward Member, Singapur said that existing weekly market place is not sufficient and requested to provide market	Weekly market provided with sufficient place at existing location.

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	place near RK-8 colony. He requested for water spraying from Sai baba temple to stadium to control dust pollution.	Water spraying on asphalt roads will damage the road.
20	Sri Gajula Prabhakar, SRP.1 Incline stated that a number of trees were planted at SRP.1 Incline premises. Water spraying is being made in the mine premises and requested to extend the same from SRP 1 incline mine road to SRP 3 incline. Treated water is being supplied to the near by villages. He requested for arranging compound wall around Shanthi stadium and also requested for developing a park.	Water spraying on asphalt roads will damage the road, and road cleaning work is under process. Treated water being supplied to Tegalphad filter bed Fencing was laid.
21	Sri Bathula Mallaiah, Coal filler RK.6 welcomed the proposed expansion of the existing mines. He told that production from underground mines should be encouraged as underground mines provide more employment less pollution in comparison to opencast mines. He requested for arranging lighting and compound wall at Shanthi stadium.	- Fencing and lighting were provided
22	Sri P. Mohan Reddy, Electrician, RK.7 welcomed the proposed expansion and stressed for more plantation in the area. All pollution control measures are to be taken for the proposed expansion. He suggested that oil leakage to be controlled to prevent water pollution. SCCL is supplying LPG instead of coal for domestic purpose which reduced air pollution. He told that plying of heavy vehicles in RK-7 road causing dust pollution and requested for taking dust suppression measures and expansion of road.	I
23	Sri K.Veeramallu, C.F. SRP.3 welcomed the proposal and also promised to put more efforts for improvement of production. Numerous plants have been planted at SRP 3 &3A premises. He requested to supply Godavari water to all the mines.	

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24	Sri Devarakonda Lingaiah, RK.7 explained that greenery was developed by plantation. Water pollution control measures are being taken in their mine. Drinking water quality was tested for potability and chlorination is being done regularly. He opined that Godavari water should be supplied to all the mines. He stated that environment awareness programmes are observed on 5 th June, World Environment Day.	
	He suggested to control oil leakage from SDL to control water pollution in u/g mine.	Regular preventive maintenance is being done to prevent oil leakage.
25	Sri Ashok, CF., RK.7 expressed that underground mines should be continued and preference should be given for more plantation.	
	Ear plugs to be supplied to the fan operator. He requested to supply power to RK-7 hutment area.	Ear plugs and dust masks are being provided. Provided.





