



Sustainable Development Activities

The Singareni Collieries Company Limited

1. Progress in creation of Eco-parks.

- Foundation stone was laid for the proposed Eco-Park at GK OC on 23.07.2020 by Shri Vanama Venkateswara rao, Hon'ble MLA, Kothagudem Constituency and Shri S.Chandra Shekar, Director (OP)&(PA&W) in connection with VRIKSHAROPAN ABHIYAN – 2020 programme of MoC.
- The tentative budgetary requirement for the proposed Eco-Park at Gautham Khani OC project is Rs.2.00 Crores.
- A note has been approved by competent authority for fund provision and tendering process of the Eco-park works is on the anvil.



2.Mine Water Utilisation for 2019-20

Mine water utilisation for 2019-20									
Mine Water Pumped out			Own Use	Community Use					
				Domestic water		Irrigation water			Total
				Vol.	Beneficiaries	Vol.	Irrigation Potential @ 40 Ha/LKL (98.8 Acres/LKL)	Actual Irrigation area	Vol.
Running Mines (LKL)	Abandoned Mines (LKL)	Total (LKL)	Vol. (LKL)	LKL	Nos.	LKL	Acres	Acres	LKL
1164.03	12.0	1176.03	460.97	119.08	2,25,000 (per day)	595.98	58,882	1700	715.06

Agricultural Fields near by OB dumps of JVR Open Cast Mine



Agricultural Fields near by OB dumps of RG Open Cast Mine-III



Mine water Utilisation for 2019-20

Summer Storage Tank near RG OC-III project



Summer Storage Tank near RG OC-II project



Mine water Utilisation for 2019-20

Supply of drinking water to surrounding villagers



3.MWU target for 2020-21 and achievement till date

Target for 2020-21

Mine Water Utilization (MWU) Targets of Coal/Lignite PSUs for 2020-21									
Subs/ PSU	Total Mine water discharge	Water to be pumped from abandoned mines/voids	Total Water to be Pumped	Own Use	Community Use				
					Domesticwater		Irrigationwater		Total
					Vol	Potential Beneficiary (@15 LPCD)	Vol	Irrigation Potential@ 40 Ha/LKL (98.8 Acres/LKL)	Vol
					Lakh Kilo Litres				LKL
SCCL	954.54	13.68	968.22	523.2	11.76	2,19,000 (per day)	433.56	42853	445.32

Achievement for 2020-21

Achievement of community MWU target for 2020-21As on 31.10.2020 (April-Oct.,2020)									
Subs/ PSU	Total Water Pumped	Own Use	Community Use						
			Domestic water			Irrigation water			Total
			Vol	Potential Beneficiary (@15 LPCD)	Actual Benefic iary	Vol	Irrigation Potential@ 40 Ha/LKL (98.8 Acres/LKL)	Actual Irrigation area	Vol
	LKL	LKL	LKL	Nos.	Nos.	LKL	Acres	Acres	LKL
SCCL	601.90	270.46	6.99	2,19,000 (per day)	2,00,000 (per day)	324.45	32069	4500	331.44

Manner of Water Supply

Drinking Water - Through Pipe lines & Water Tankers
Irrigation - Storage Tanks

MWU target for 2020-21 and achievement till date

List of villages benefitted

1	Strut-pit Basthi	27	Peddampaet & Mangalpalli	53	Dhanbad	79	Beddalonipalli
2	Stalin Nagar	28	Medapalli Village	54	Kistaram	80	Kashimpalli
3	Thilak Nagar	29	Dubbagudem	55	Rejerla	81	Reddy colony
4	Kummar Basthi	30	Bhagatsingh Nagar	56	Barlipet	82	Gandhinagar
5	Seshagiri Basthi	31	Muthyalampalli Village	57	Main Hospital Area	83	Shanthinagar
6	Bolli Nagar	32	Orregadda	58	Budidagadda	84	Madina Nagar
7	Cheuvu Katta	33	Kasipeta	59	Old Rama Talkies area	85	LB nagar
8	Bupesh Nagar	34	Amarwadi, Sarangapalli	60	Babu Camp	86	Krishna colony Plots area
9	Vijayalaxmi Nagar	35	BPA Muncipal Area	61	Writer Basthi	87	Subhash colony plots area
10	JK-5 Hutment	36	Rachapalli Village	62	CMPF Office area	88	Bhaskara gadda village
11	Vengalrao Nagar	37	Akkapalli Village	63	Coolie line	89	Veshyalapalli
12	Indira Nagar	38	Kannala Village	64	Ganesh Basthi	90	Basavarajupalli
13	No.15 Basthi	39	Vempadu Village	65	Superbazar area	91	Parashurampalli
14	Kakatiya Nagar	40	Huts area-KK Nagar	66	Sanyasi Bhasthi	92	Peddapur
15	Subash Nagar	41	Huts area-Lamadi Thanda	67	Nehru Basthi	93	Ravinagar
16	Sanjay Nagar	42	SingireddyPalli&Chandanapur	68	Durgam Basthi	94	Arunakka nagar
17	Balaji Nagari	43	Alluru village	69	Ram nagar	95	Sundarayya Colony
18	Lalithapuram	44	Penchikalpet	70	N.K.Nagar	96	Singapur
19	Usirikayalapalli	45	Penagadapa	71	Bhajanamandir	97	Thallapalli
20	Seetaramapuram	46	Sitampeta	72	Gajularam Basthi	98	Guttedar Palli
21	Bhagyanagar Thanda	47	Rudrampur	73	Gouthamnagar	99	Ramarao Peta
22	Lachagudem	48	Garibpeta	74	Patha Kothagudem	100	Jangeti Village
23	Venkateshwarlapalli	49	Ramavaram	75	Ganga Hussain Basthi	101	Bhupalapalli village
24	Huts area(Sector 1&2)	50	3 Incline colony	76	A-Power House Basthi	102	Vippala Singaram
25	Janagama Village	51	Seetampeta	77	Main Bazar	103	Annaram village
26	Private Area	52	Gouthampur	78	Mathura Basthi	104	Kommugudem village

4. Status of reclamation/plantation (2020-21) and Targets for FY 2021-22

A. Target for 2020-21

Bio-Reclamation/Plantation Target for 2020-21									
SCCL	Within leasehold (Ha)					Reclamation/Plantation Outside Lease hold		Total	
	Bio-reclamation		Cultivation	Bamboo	Grassing				
	Area (Ha)	Plantation (Nos.)	Area (Ha)	Area (Ha)	Area (Ha)	Area (Ha)	Plantation (Nos.)	Area (Ha)	Plantation (Nos.)
	793.5	19,83,750	-	162	259	11	27,500	804.5	20,11,250

B. Achievement for 2020-21

Bio-Reclamation/Plantation Achievement for 2020-21									
SCCL	Within leasehold (Ha)					Reclamation/Plantation Outside Lease hold		Total	
	Bio-reclamation		Cultivation	Bamboo	Grassing				
	Area (Ha)	Plantation (Nos.)	Area (Ha)	Area (Ha)	Area (Ha)	Area (Ha)	Plantation (Nos.)	Area (Ha)	Plantation (Nos.)
	799.00	19,98,000	-	162	259	10	25,000	809.00	20,23,000

Note: The Bio-reclamation consists of both Bamboo and Grass as mentioned above.

C. Target for 2021-22

As Per EMP the plantation target is 660 Ha. However SCCL will put its best efforts for a plantation of 900 Ha subject to the availability of land.

Reclamation

RG OC-I-Dump Plantation



JVR OC-I-Dump Plantation



Plantation over the stabilized Internal dumps



**Avenue Plantation
Sathupalli-Kothagudem Highway**



5.Alternative usage of OB-Present status and future road map

Present Status

Processed Overburden (POB) and **Bottom Ash** are being used as stowing material in underground mines of SCCL in place of river sand which is a scarce commodity and environmentally un-friendly. SCCL received “**Golden Peacock Innovative Product/Service Award**” for the year 2015 at Dubai for utilisation of Processed Overburden (POB) in stowing operations instead of river sand.

Existing POB Plants

SI.No	Location	Production in Cu.M (as on September, 2020)
1	POB Plant at Ramagundam	5,96,000
2	POB Plant at Srirampur	13,75,000
3	POB Plant at Bhupalpalli	9,00,000
Total		28,71,000

Alternative usage of OB-Present status and future road map

Processed Overburden Plant at Sri Rampur



Processed Overburden Plant at Ramagundam



Processed Overburden Plant at Bhupalpalli



Alternative usage of OB-Present status and future road map

Future Road Map-Commercial Sand

- SCCL is in the process of producing commercial sand from overburden of OC Mines for the purpose of civil constructions.
- In this regard a study was given to JNTU, Hyderabad to study the properties of the generated sand from OB material for civil construction. *JNTUH recommended to use the processed OB on trial basis in plain cement concrete works and other unimportant works .*
- Based on the study carried out by JNTUH, it is proved that processed OB can be used in civil constructions subject to bringing down the clay content to less than 1% and 2% as per IS 383 & IS 2386 respectively by further washing and refining.

6.Promoting renewable-Present installed capacity and plan till 2023-24

SCCL proposed to set up 299.5 MW capacity solar plants (3 phases) with capital outlay Rs.1361.5 Crores. Of the 299.5 MW capacity units, 2 units of 40 MW capacity were commissioned as on 31.10.2020. Remaining 259.5 MW capacity units will be commissioned by 2022.

Phase-I (2020-21)

S.No	Area	Solar plant capacity (MW)	Status of installation
1	Manuguru	30	Synchronized on 30.07.2020
2	Yellandu	39	First 10 MW will be synchronized by 30.11.2020 and the remaining 29 MW by 31.12.2020.
3	Ramagundam -3	50	First 15 MW will be synchronized by 15.11.2020 and the remaining 35 MW by 31.12.2020.
4	STPP	10	Synchronized on 10.02.2020.
	TOTAL	129	

Phase-II (2021-22)

S.No	Area	Solar plant capacity (MW)	Status of installation
1	Mandamarri stage - 1	28	Under Erection
2	Mandamarri stage - 2	15	Under Erection
3	Kothagudem stage -1	37	Under Erection
4	Bhupalapalli	10	Under Erection
	TOTAL	90	

Promoting renewable-Present installed capacity and plan till 2023-24

Phase-III (2021-22)

S. No.	Location	Type	Capacity (MW)	EPC Firm	Remarks
1	Kothagudem	Ground mounted	22.5	Adani Infra India Ltd.	LOI issued
2	Chennur		11.0		
3	RG OC1 Dump	OB Dump	22.0		
4	Dorli OC1 Dump		10.0		
5	STPP Raw water reservoir	Floating solar	10.0	Novus Green Energy Ltd.	
6	Dorli OC2 Void area		5.0		
		TOTAL	80.5		

Promoting renewable energy

Solar Power Plant at STPP (10 MW)



Solar Power Plant at Manuguru (30 MW)



Promoting renewable-Present installed capacity and plan till 2023-24

Office Buildings/Guest Houses

Present Installed Capacity

S.No.	Location of the solar plant	Capacity of the plant	Type
1	Guest House, MMR	4 kWp	Roof Top
2	GMO, RG3	10 kWp	Roof Top
3	Singareni Bhavan, Hyderabad	60 kWp	Roof Top
4	SC Polytechnic, SRP	100 kWp	Ground Mounted

Proposed Units

S.No	Location of the solar plant	Capacity of the plant	Type	Remarks
1	New Head office building, Corp.	80 kWp	Roof Top	Will be commissioned by March,2021
2	EPI centre building, Corp.	80 kWp	Roof Top	