

Brief summary of Cluster of Godavarikhani No.1&3 incline and Godavarikhani coal mine (No.2&2A and No.5)

The Singareni collieries company Limited (SCCL) is operating 4 underground mines namely GDK No.1&3 Incline, GDK No. 2&2A, GDK No.5 Incline , GDK No.11 Incline and one opencast mine namely Medapalli opencast mine in the Ramagundam-I area in Peddapalli district of Telangana state.

The coal reserves of Medapalli opencast mine will be exhaust by 2020-21, to compensate and to provide continuous coal supply to NTPC Ramagundam beyond 2020- 21 Godavarikhani coal mine (No.2&2A and No.5) is proposed. Godavarikhani Coal Mine (No 2 & 2A and No 5) is an integrated/mixed mine (opencast cum underground) carved out of the existing Godavarikhani No.5 incline underground mine by converting it into opencast mine up to 300m depth of 4 seam and at the same time utilizing the surface area of Godavarikhani No.2&2A Inclines for dumping of OB and simultaneously producing coal from GDK 2&2A UG Mine.

Godavarikhani No.1&3 incline is an operating underground coal mine in the mine take area of 541.66 ha with a production capacity of 0.486 MTPA.

Now it is proposed for Cluster of Godavarikhani No.1&3 Incline and Godavarikhani Coal Mine (No 2 & 2A and No 5) which are located in Jangoan and Vithalnagar villages of Ramagundam Mandal in Peddapalli district of Telangana State. The project area of is covered under Survey of India Top sheets No. 56N/9 & 56N/10 and bounded by North latitudes 18° 45' 24" to 18°45' 53" & East longitudes 79° 30' 25" to 79° 32' 29" for Godavarkhani No.1&3 Incline and North latitudes 18° 43' 21" to 18° 45' 45" & East longitudes 79° 31' 10" to 79° 35' 46" for Godavrikhani coal mine (GDKNo.2&2A and No.5). The project is located in the Ramagundam Coal belt of Godavari Valley Coalfield (GVCF).

The project area of the proposed cluster of mines is 1927.13 ha {GDK No.1&3 incline 541.66 ha and Godavarikhani coal mine (No.2&2A and No.5 :1385.47 ha)}.and the rated capacity is 4.134 MTPA {OC: 3.00 MTPA and UG (GDK No. 1&3 0.486 and GDK No.2&2A : 0.648 MTPA)}, Peak-4.648 MTPA {OC: 4.00 MTPA and UG (GDK No. 1&3 0.486 and GDK No.2&2A : 0.648 MTPA)}

Mining Plan (including Mine Closure Plan) of Godavarikhani 1&3 and Coal Mine (No 2 & 2A and No 5) was approved by MoC, Gol vide letter no.34011-17-2014-CPAM dated 17.09.2014 and PCA-38011/12/2017-PCA dated 22.04.2019 respectively.

Salient features of the mine:

1	Name of the Project	Cluster of GDK No. 1&3 Incline and Godavarikhani Coal Mine (No 2 & 2A and No 5)	
2	Type of the Project	Opencast cum Underground	
3	New/Expansion	Expansion	
4	Name of the Organization	The Singareni Collieries Company Limited (SCCL)	
5	Coalfield	Godavari Valley Coalfield	
6	Coal belt	Ramagundam Coalbelt	
	Particulars	GDK No. 1&3 Inclines	Godavarikhani Coal Mine (No 2 & 2A and No 5)

7	Location		
	Village	Jangaon	Vithalnagar
	Mandal	Ramagundam	
	District	Peddapalli	
	State	Telangana	
	Nearest Rly Station	Ramagundam	
	Nearest Airport	Shamshabad, Hyderabad	
	Latitudes	18° 45' 24" to 18° 46' 53" N	18° 43' 21" to 18° 45' 45" N
	Longitudes	79° 30' 25" to 79° 32' 29" E	79° 31' 10" to 79° 35' 46" E
	Topo sheet No.	56 N/9.	56 N/9 & 56N/10.
8	Seams		
	No. & names of coal seams present	9 1A1, 1A2, 1A3, 1, 2Bot, 3B, 3A, 3 and 4	9 1A1, 1A2, 1A3, 1, 2Bot, 3B, 3A, 3 and 4
	No and names of seams considered for UG mining	4 1, 2, 3 and 4	4 1, 2Bot, 3 and 4
	No & Names of seams considered for Opencast mining	Nil	8 1A1, 1A3, 1, 2Bot, 3B, 3A, 3 and 4
	Seam not considered for extraction	5 1A1, 1A2, 1A3, 3B and 3A	1A2 (thickness is less than 0.90m).
9	Borehole density (No/Sq.km)	12.4	14
10	Coal reserves as per approved Mining Plans		
	Geological MT reserves	154.26	179.58
	Mineable reserves MT	--	85.81 (OC: 34.91 + UG: 50.90)
	Extractable reserves MT	40.92	78.42 (OC: 33.24 + UG: 45.18)
	Reserves Extracted MT	17.94 upto 31.3.2014)	35.55 (OC: 0.00 + UG: 35.55) (upto 31.3.2018)
	Balance extractable Reserve MT	22.98 (from 1.4.2014)	42.87 (OC :33.24 + UG: 9.63) (from 1.4.2018)
11	Average grade of coal	G-8 (5028 kcal/kg)	G-8 (5061 kcal/kg)
12	Gradient of the seams	1 in 3 to 1 in 4.5	1 in 3.0 to 1 in 4.5

13	Technology	Semi-mechanization by SDLs	Semi-mechanization by SDLs & LHDs (UG) Shovel-Dumper Combination (OC)
14	Production capacity Mty	0.486	3.648 (Peak: 4.648) {OC: 3.00(Peak: 4.00), UG:0.648 }
	Life of the Mine	63 (from 1.4.2014)	15 Years (from 1.4.2018)
15	Hard OB to be excavated (M.Cum)	Not applicable	451.90
	Total top soil (M.Cum)	Not applicable	6.76 (3.36 from quarry and 3.40 from external dumps 2&3)
16	Average Stripping Ratio Cum/ T	Not applicable	13.70
17	Area of excavation on surface (ha)	Not applicable	336.14
18	Maximum depth of the quarry	Not applicable	300 m depth of 4 seam
19	Coal linkage	Commercial mining (Linkage as approved by the competent authority)	NTPC, Ramagundam
20	Land requirement		
	Forest land requirement (ha)	Nil	Nil
	Mine take area within ML areas (ha)	541.66	1385.47
	Mine take area outside ML areas (ha)	Nil	Nil
21	Land Acquisition Status		
	Land under possession of SCCL (ha)	195.54	575.42
	Land to be acquired (ha)	Nil	810.05
	Land not required to be acquired (ha)	346.12	Nil
22	Rehabilitation & Resettlement (R&R) Involved		
	PDFs	Nil	Nil
	PAFs	Nil	115
	Cost of R&R	Nil	₹.6.96 Cr.

23	Employment potentiality	1126	UG: 3117 OC: 900 (OC: Direct: 350, Contractual: 550)
24	Project capital cost	₹.12.20 Cr.	₹.438.98 Cr.
25	EMP cost		
	Direct cost	₹.2.05 Cr.	₹.22.85 Cr. (Includes ₹.7.50 Cr. CER Cost)
	Indirect cost	Nil	₹.4.59 Cr.
	Revenue cost	₹.1.06 Cr./Annum (₹.13.30/Tonne.)	₹.6.61 Cr./Annum (₹. 22.02/Tonne.)