

SITE INSPECTION REPORT OF SRI NNERAJ KUMAR TIBREWAL IFS., FOREST DIVISIONAL OFFICER, YELLANDU IN RESPECT OF DIVERSION OF 151.8519 HA OF PROPOSED FOREST LAND IN COMPARTMENT NO. 49 & 51 OF YELLANDU R.F., OF YELLANDU RANGE OF YELLANDU DIVISION IN FAVOUR OF M/S. S.C.C.LTD., DIVERSION FOR PROPOSED JAWAHAR KHANI OPENCAST MINE (JK OC) FROM UNDERGROUND RIGHTS TO SURFACE RIGHTS ON Dt. 20.09.2021.

Inspected the proposed diversion area to an extent of 151.8519 Ha of forest land in Compt. No. 49 & 51 of Yellandu RF for diversion for proposed Jawahar Khani -5 Coal mine from Underground rights to Surface rights in Yellandu area in Bhadradri Kothagudem District in favour of M/s. S.C.Co.Ltd along with Forest Range Officer, Yellandu and Concerned staff on dt.20.09.2021.

The area required for diversion of forest land for proposed Open cast mine in Yellandu mandal falls in Yellandu RF of Yellandu Range which is notified U/s 18 vide Gazette No. 834, dt. 18.9.1354 F and State Gazzette No.39, Dt.10-10-1354 Fasli.

The area required for diversion of land as demarcated on the ground by the User Agency comes to 151.8519 Ha. The SCCL has proposed to convert the 3rd Renewal of Yellandu Mining Lease which is already underground mine for an area of 106.304 Ha out of 124.96 Ha of approved diversion area from Underground to Open cast mine. In addition to this, GTD depot area of 45.5477 Ha is fresh diversion. The details are as follows.

Sl. No.	Name of the Diversion	(UG/ Surf ace)	MoEF Ref.No. dt.& Period of Diversion	Total Forest Land Diverte d (In Ha)	Proposed diversion from UG to OC	Balance FL continue d with UG rights (HA)
1	3 rd Renewal of Yellandu Mining Lease	UG	8-26/1985-FC, dt.20.07.2018 & 20 years from 01.01.2015	124.96	106.304	18.656
2	1 st Renewal of Yellandu Mining Lease	UG	8-54/1991-FC (pt) dt.25.07.2008 & 20 Years from 15.04.2004	42.50	0	42.50
3	FL identified outside of diverted land			0	45.5477	0
				167.46	151.8517	61.156

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Purpose wise breakup of the above proposed diversion area is as follows.

Sl.No	Description	Extent
1.	Total Excavation Area	115.6001
2.	Embankment	1.409
3.	Toe Wall	0.482
4.	Setting pond	3.5318
5.	Diversion/below river/Nala/Canal	0.3510
6.	Garland Drains	2.2338
7.	Plantation	24.43
8.	7.5m safety zone along the periphery	3.8142
Total		151.8519

The User agency has mentioned note in Part-I that, Out of 115.6001 Ha of excavation area, an extent of 28.7602 Ha will be back filled with overburden and the remaining area of 86.8399 ha of area will be left as excavated void in final closure as per proposal. However, the User agency should take up the works as per approved mine closure plan.

Existing tree growth: The proposed forest land for diversion over an extent of 151.8519 Ha has got Misc., vegetation. The canopy density in the proposed area of diversion of forest land is mainly open and scrub forests with density in-between 0.1 to 0.5 Most of the growth is coppice in nature and natural teak re-generation is observed in the proposed diversion area. The existing tree growth of Misc., species such as 1. Thuniki (*Diaspyros Melanoxyion*), 2. Teak (*Tectona Grandis*), 3. Chennangi (*Lagerstromia Parvifolia*), 4. Kodisa (*Cleistanthus Collinus*), 5. Billudu (*Chloroxylon Swietenia*), 6. Kanuga (*Pongamia Glabra*), 7. Vepa (*Azadirachta Indica*), 8. Pachari (*Dalbergia Paniculata*), 9. Pala (*Manilkara Hexandra*), 10. Tada (*Grewia Tilreafolia*), 11. Udugu (*Alangium Lamarckii*), 12. Bojja (*Aylia Xeiocarps*), 13. Barre Duddi (*Saccosetalnam Tomentosum*), 14. Musti (*Strychnos Nuxvomica*), 15. Thogara (*Morinda Tiactoria*), 16. Nallamaddi (*Terminalia Tomentosa*), 17. Ellintha (*Diospyros Chloroxylon*), 18. Bontha (*Mimosa odoratissima*), 19. Kondatangedu (*Aylia Xeiocarps*), 20. Nemalinara (*Holoptelia Integrifolia*) and others. The soil type is Red loamy, morrum with sandy patches.

The details of vegetation canopy density as assessed using the Remote Sensing data is as follows:

Density Class	Area in Ha
0.4 to 0.7 (MDF)	4.1624
0.1 to 0.4 (OF)	76.2444
0 to 0.1 (Scrub)	36.2817
0 (NF)	33.5512
0 (WB)	1.6122
Total::	151.8519

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The Forest Range Officer, Yellandu has conducted the enumeration all over the applied proposed diversion area. The same has been verified randomly and found to be correct. The details are as follows.

Sl. No.	Local Name of Tree	Botanical names of trees	No. of trees Total	Girth class wise number of trees (Cms)					No. of poles	Timber in cum	Fuel In Cum	Total value Rs.	Remarks
				0-30	31-60	60 to 90	91 to 120	>120 cm					
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Adavi danimma	Punica Granatum	17	14	3	0	0	0	0	0.000	0.234	169.655	
2	Adavi Munaga	Morinda Tiactoria	21	10	10	1	0	0	0	0.000	1.049	760.665	
3	Adavi Thumma	Canavalia virosa	16	2	3	5	4	2	0	0.000	6.812	4938.795	
4	Anduga	Botanical names of trees	3	2	1	0	0	0	1	0.000	0.020	136.645	
5	Are	Bauchinia racemosa	6	1	4	1	0	0	4	0.000	0.104	563.078	
6	Ashoka	Saraca Asoca	12	10	0	1	1	0	0	0.000	1.331	964.980	
7	Bamboo	Bambosa Aridinarifoila	1	1	0	0	0	0	0	0.000	0.004	2.719	
8	Bandari	Bambosa Aridinarifoila	80	26	45	8	1	0	44	2.703	0.075	24954.233	
9	Barreduddi	Saccosetalnam Tomentosum	1150	755	345	45	3	2	664	9.635	8.517	98095.808	
10	Barrenka	Epicarpurus orientalis	12	7	4	1	0	0	10	0.178	0.000	1103.828	
11	Bhutangi	Mitraagyna Parvifolia	10	8	2	0	0	0	0	0.000	0.131	94.730	
12	Billudu	Chloroxylon Swietinia	3483	1865	1468	144	2	4	2256	47.687	4.838	653994.050	
13	Bojja	Aylla Xelocarps	1383	912	417	37	14	3	765	9.237	7.436	402497.006	
14	Bomadi	acacia nilotica	14	6	7	1	0	0	0	0.000	0.600	434.968	
15	Bontha	Mimosa odoratissima	573	368	188	11	5	1	0	0.000	10.446	10356.452	
16	Buddadharmi	Careya Arborea	2	0	2	0	0	0	0	0.000	0.080	58.163	
17	Burdoni	combretum indicum	2	2	0	0	0	0	0	0.000	0.020	14.573	
18	Burugu	Salmila Malabarica	37	12	11	10	2	2	0	0.000	107.651	78047.027	
19	Chenchu	Anogelssus latifolia	2	0	2	0	0	0	0	0.000	0.099	35.724	
20	Chennangi	Lagerstromia Parvifolia	8504	6572	1781	132	13	6	4372	60.838	31.055	951135.411	
21	Chilakaduddi	Polyalthis Suberosa	459	343	108	5	3	0	0	0.000	11.442	8295.622	
22	Chilla	Croton scabiosus	4	4	0	0	0	0	0	0.000	0.053	38.452	
23	Chinduga	Albizia Adoratissima	26	12	9	3	2	0	12	1.162	0.033	18785.046	
24	Chintelugu	Albizia Adoratissima	42	11	18	8	4	1	24	3.654	0.281	21713.517	
25	Chintha	Tamarindus Indica	4	1	2	1	0	0	0	0.000	0.321	232.585	
26	Dante	Celastrus Emarginayus	58	25	31	1	1	0	3	0.000	2.637	2149.101	
27	Devadari	Erythroxylon momogynam	33	14	14	5	0	0	0	0.000	1.352	980.273	
28	Dhugi	Cordia dichotoma	5	5	0	0	0	0	0	0.000	0.041	29.870	
29	Dirisanam	Albizia lebbeck	17	4	4	3	2	4	0	0.000	8.915	6463.416	
30	Eduga	Alangium Lamarckii	1	1	0	0	0	0	0	0.000	0.005	3.625	
31	Eetha	Phonix Sylvestris	9	0	2	3	3	1	0	0.000	0.636	460.747	
32	Ellintha	Diospyros Chloroxylon	578	113	304	106	37	18	71	9.158	46.087	87489.046	
33	EP	Eucalyptus Species	5066	2018	1069	1658	309	12	1998	12.000	1197.866	6863700.572	
34	Ganneru	Tamarindus Indica	3	1	0	1	0	1	0	0.000	2.265	1661.458	
35	Gubba	Idga Dulcis	46	18	21	7	0	0	0	0.000	2.685	1946.679	
36	Gulmohar	Delonix Regia	17	3	9	4	1	0	0	0.000	3.750	2718.437	
37	Gummaditeak	Gemilna Arborea	3	2	0	1	0	0	1	0.105	0.014	219.590	
38	Gumpena	Lannea Coromandelica	27	9	12	6	0	0	0	0.000	1.996	1446.819	

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39	Gumpidi	Eucalyptus globulus	2	0	2	0	0	0	0	0.000	0.073	52.911	
40	Gundedl	Eucalyptus globulus	1	0	1	0	0	0	0	0.000	0.011	7.857	
41	Gunugu	Couropita guianesis	12	3	6	3	0	0	0	0.000	0.558	404.659	
42	Ippa	Madenca Indica	139	92	22	6	2	17	58	131.612	5.621	361260.541	
43	Jaji	Myristica fragrans	6	4	2	0	0	0	0	0.000	0.070	50.442	
44	Jama	Psidium guajava	6	5	1	0	0	0	0	0.000	0.110	79.582	
45	Jibilika	Grewia hirsuta	3	3	0	0	0	0	0	0.000	0.028	20.101	
46	Jinna	terminalia arjuna	2	0	2	0	0	0	1	0.011	0.000	136.178	
47	Jitregi	Dalbergia Latifolia	5	2	2	0	1	0	3	0.316	0.000	7242.421	
48	Kanuga	Pongamia Glabra	3261	2013	1082	113	27	26	18	0.314	206.141	163196.036	
49	Karaka	Terminalia Chebule	13	9	4	0	0	0	0	0.000	0.304	220.597	
50	Karvepaku	Murraya Koenigii	60	56	4	0	0	0	0	0.000	0.679	492.189	
51	Kodisa	Cleistanthus Collinus	4762	3200	1429	115	14	4	29	0.000	133.798	99356.616	
52	Kondatangedu	Aylla Xeiocarps	547	288	178	42	22	17	264	68.137	1.330	283783.641	
53	Kunkudu	Acacia Concinna	16	9	6	1	0	0	0	0.000	0.513	372.260	
54	Maddi	Terminalia Tomentosa	19	3	7	1	1	7	3	33.001	0.216	164670.569	
55	Malabar	Malabar	1	1	0	0	0	0	0	0.000	0.006	4.404	
56	Mamidl	Mangifera Indica	19	4	7	4	3	1	0	0.000	6.235	4520.665	
57	Maredu	Aegle Marmelos	105	59	42	3	0	1	0	0.000	8.317	6030.097	
58	Marri	Ficus mysorensis	2	0	1	0	0	1	0	0.000	0.339	245.426	
59	Medi	Ficus Racemosa	122	60	48	8	4	2	0	0.000	5.336	3565.176	
60	Mullachettu	Acacia Nilotica	2	2	0	0	0	0	0	0.000	0.032	22.892	
61	Mullatumma	Acacia Nilotica	8	6	2	0	0	0	0	0.000	0.161	116.838	
62	Munaga	Morinda Tiactoria	2	0	0	2	0	0	0	0.000	0.160	116.154	
63	Musti	Strychnos Nuxvomica	1063	601	384	69	9	0	1	0.000	42.231	30558.006	
64	Naguru	Radermachera xylocarpa	111	51	51	9	0	0	0	0.000	1.588	1151.291	
65	Nallamaddi	Terminalia Tomentosa	970	232	449	193	68	28	391	71.023	3.204	1183531.849	
66	Narayepa	Hardwickia binata	29	3	12	11	3	0	12	2.520	0.000	88962.114	
67	Nemalnara	Holoptelia Integrifolia	352	200	110	28	8	6	1	0.000	23.463	17132.437	
68	Neredu	Syzygium Cumini	102	54	40	5	1	2	64	3.878	0.163	35770.687	
69	Nimma	Citrus Limetta	1	0	1	0	0	0	0	0.000	0.051	36.667	
70	Pachari	Dalbergia Paniculata	2758	1143	1231	343	32	9	0	0.000	213.469	154212.642	
71	Pala	Manilkara Hexandra	2758	2370	347	36	4	1	5	0.000	37.312	27668.490	
72	Pala Ganneru	Mangifera Indica	2	2	0	0	0	0	0	0.000	0.019	13.825	
73	Panasa	Artocarpus Heterophyllus	3	0	1	2	0	0	0	0.000	1.008	730.483	
74	Parige	Reichardia Hexapetala	5	4	1	0	0	0	0	0.000	0.059	42.422	
75	Peddamanu	Mangifera Indica	1	0	1	0	0	0	0	0.000	0.062	45.043	
76	Ravi	Ficus Religiosa	2	1	0	0	0	1	0	0.000	1.101	798.021	
77	Regi	Ziziphus Mauritiana	33	20	11	1	0	1	0	0.000	5.128	3717.750	
78	Rela	Cassia Fistula	126	68	53	4	1	0	2	0.000	8.819	6711.630	
79	Sandra	Acacia Catechu	35	24	10	1	0	0	13	0.375	0.037	1929.333	
80	Seethaphala	Annona Squamosa	127	114	8	2	3	0	0	0.000	4.584	3323.441	
81	Somi	Swietenia febrifuga	3	0	1	2	0	0	0	0.644	0.000	2914.994	
82	Somidi	Swietenia febrifuga	31	12	10	7	1	1	14	3.316	0.011	21498.094	
83	Subabul	Leucaena Leucocephala	68	37	15	10	3	3	0	0.000	13.923	10094.458	
84	Tani	Morinda Tiactoria	56	27	22	7	0	0	25	1.661	0.301	9244.539	

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85	Tapsi	Sterculia urena	1	0	1	0	0	0	0	0.000	0.029	20.953	
86	Teak	Tectona Grandis	17701	10496	6582	409	106	108	10590	544.256	0.742	15969437.324	
87	Tellatamma	Acaciolenca Phloes	23	7	14	0	1	1	0	0.000	1.345	975.055	
88	Thada	Grewia Tilreafolia	2249	1377	741	101	29	1	285	7.949	42.070	254559.460	
89	Thati	Botanical names of trees	22	2	0	3	5	12	0	0.000	10.712	7766.066	
90	Thogara	Morinda Tiactoria	995	606	362	24	3	0	5	0.000	26.491	19698.100	
91	Tirumanu	Anogeissus Latifolia	239	92	118	26	3	0	142	11.382	0.750	41033.584	
92	Tumma	Acacia Concinna	267	196	67	2	1	1	0	0.000	5.296	3839.525	
93	Tuniki	Diaspyros Melanoxylon	21360	15168	5684	463	37	8	12028	173.742	65.569	1924078.292	
94	Udugu	Alangium Lamarckii	1934	1303	546	70	12	3	4	0.567	65.804	68838.246	
95	Upana	Ficus religiosa	2	2	0	0	0	0	0	0.000	0.015	11.093	
96	Usiri	Embica Officinalis	2	1	0	0	1	0	0	0.000	0.551	399.656	
97	Velaga	Limonia Acidissiamia	43	17	21	4	1	0	0	0.000	3.329	2413.505	
98	Vepa	Azadirachta Indica	3049	1923	910	157	34	25	1628	91.367	9.788	442353.935	
99	Yegisa	Pterocarpus Marsipium	70	61	8	0	1	0	46	1.440	0.128	21973.599	
100	Yellanda	Diospyros Chloroxylon	15	6	5	4	0	0	0	0.000	1.540	1116.532	
101	Yerra chandhanam	Peterocarpus santillinus	1	0	1	0	0	0	0	0.000	0.045	32.716	
102	Yerumaddi	Terminalia Arjuna	1	1	0	0	0	0	0	0.000	0.005	3.625	
		Total	87451	55197	26562	4500	848	344	35857	1303.866	2421.66	30701301.10	

Further, it is proposed that, upto 100 trees out of 344 no. of above 120 girth trees identified by the Forest Department in diversion area will have to be Translocated by the user agency based on the specifications (location where to be translocated, when and how to be translocated) given by the Forest Department.

Further, it is observed that, the Government Timber Depot, Yellandu which is falling in proposed diversion area is to be shifted into Forest complex, Yellandu. Therefore, clearing, leveling - Rs.5.00 Lakhs, transportation of material -Rs. 5.00 Lakhs, construction of check gate shed - Rs.10.00 Lakhs, Construction of GTD Office - Rs.35.00 Lakhs, Construction of Timber Sheds (02) Nos - Rs.20.00 lakhs, construction of Protection wall around the timber depot area - Rs.145.00 lakhs and other unforeseen items like electrical charges, path ways, Gates etc Rs.30.00 lakhs to be born by the SCCLtd. The existing timber and vehicles are ascertained and it comes to 230 lots for 154.001 cmt and appx.150 No. of vehicles as on Sep-2021. A detailed financial requirement is mentioned in Mitigative measures scheme and enclosed to the proposal.

Further, it is observed that, the EP plantations for an area of 25.00 Ha and 7.00 ha raised during 2006-2007 and 2012-13 respectively are falling in the proposed area for diversion. The Misc plantations with an area of 12.00 Ha and 15.00 Ha raised during 2013-14 and 2004-05 respectively are also falling in the proposed area for diversion.

In addition to the above, an area of 30.00 Ha out of 50.00 Ha of ANR area taken-up during 2016-17 is also falling in the proposed diversion area and to an length of 13.00 Kms and 6.50 Kms of firelines created during 2016-17 and 2017-18 respectively are also falling in the proposed area for diversion. (01) Kms of RF

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Boundary Trench and (02) nos of saucer rings are also falling in the proposed area for diversion. The details of the above works are as follows in tabular format.

S No	Name of the Work	Year of the work	Area / Length	Expenditure	Remarks
1	ANR	2016-17	30 Ha	470000	Maintained 2 years
2	Fire Lines	2016-17	13 km	370500	Maintained 3 years
3	Fire Lines	2017-18	6.5 km	213750	Maintained 3 years
4	Saucer Rings	2017-18	2 No's	66000	Construction & Water filling for 4 years
5	RF Trench	2016-17	1 Km	42300	Digging of RF boundary trench
6	Bund Planting	2018-19	1 Km	30742	Raising and Maintenance
7	EP Plantation	2006-07	25 Ha	440000	Raising and Maintenance
8	EP Plantation	2012-13	7 Ha	123200	Raising and Maintenance
9	Misc., Plantation	2013-14	12 Ha	454257	Raising and Maintenance
10	Misc., Plantation	2004-05	15 Ha	567822	Raising and Maintenance
		Total::	102 Ha / 21.5 Km	2778571	

Further, it is also observed that, one old Dargah and burial ground also existed in the proposed diversion area.

The main fauna existing in the proposed area for diversion are Chowsingh, Wild boar, Monitor lizard, Jungle cats, Forest cats, Rabbits and reptiles etc. There are no notified migratory corridor, or wildlife Sanctuary or National Park, or Biosphere reserve and no monument of archaeological importance.

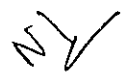
The chance of wild animals entering and falling in the opencast mine cannot be ruled out. Hence, it is suggested to have chain link fence all around the diverted area and bio-fence like bamboo brakes of 100m width all along the perimeter to minimise the damage to the wildlife and surrounding area with the cost of User Agency. The said chain link and bio fencing around the diverted area has to be executed by the user agency based on the specifications (design, when and how to execute) given by the forest department.

No protected Archeology/Heritage site and Defence establishment or any other important monuments are located in the proposed area for diversion.

In the proposed forest area no work in violation of Act has been carried out by the User Agency.

Claims under RoFR: As per the records and field inspection, at present there is no RoFR claims in proposed diversion of forest land of 151.8519 Ha of forest land in Compt Nos. 49 & 51 of Yellandu R.F. Resolution and Certification of District Collector, Bhadradi Kothagudem will be submitted in due course. A Copy of the RoFR requisite application submitted to the District Collector, Bhadradi Kothagudem is enclosed herewith for favour of kind perusal.

Encl: Photographs.


 Forest Divisional Officer
 Yellandu