



भारतसरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE

Integrated Regional Office (South Eastern Zone),
1st floor, Additional Office Block for GPOA, Shastri Bhawan,
Haddows Road, Nungambakkam, Chennai - 600006, Tel. 044-222041,
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F.No:4-TSA 219/2021-HYD/ 128
Dated 22nd Sept 2021

To

The ADG (FC)
Ministry of Environment, Forests and Climate Change,
Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj,
New Delhi-110003

Subject : 2nd Renewal of forest diversion permission of 929.29ha of RF land for UG mining in Indaram mining lease in compartment Nos.699 to 703, 706 to 709, 711 to 714 of Indaram RF, Mancherial Range and Mancherial Forests Division in Mancherial District of Telangana in favor of M/s. Singareni Collieries Company Limited (SCCL), submission of Report – Reg.

Reference: The MoEF &CC, GoI, letter No.8-01/2000-FC(Vol.) dt.18.08.2021

Sir,

With reference to the subject and reference and to inform that, as per the directions of the Ministry, undersigned carried out inspection subject proposal site on **15th and 16th September 2021** along with State Forest Department and the representatives of the User Agency;

Accordingly, the detailed **site inspection report (SIR)** is prepared and herewith forwarded for kind perusal and further necessary action please.

Yours Faithfully

(R. Hemanth Kumar)

Deputy Director General of Forests (Central)/ IRO
Chennai

Encl: As above

Al. disans
me
24/9/21
16/20/17

Site inspection report on diversion of 929.29ha of RF land (2nd renewal) for UG mining in Indaram mining lease in compartment Nos.699 to 703, 706 to 709, 711 to 714 of Indaram RF, Mancherial Range and Mancherial Forests Division in Mancherial District of Telangana in favor of M/s. Singareni Collieries Company Limited (SCCL).

Brief on the project proposal:

- a. **Name of the User Agency:** Singareni Collieries Company Limited (SCCL)
- b. **Legal Status of the User Agency:** Central PSU
- c. **Actual forest area required for diversion:** 929.29 ha
- d. **Cost of the Project:** Reported as Rs. 32700/-
- e. **Status of Environmental Clearance:** Obtained
- f. **Status of the Mining plan:** Submitted in online application

Detailed note on observation made during the site inspection are as follows;

1. As instructed by the Ministry vide letter No 8-01/2000-FC(Vol.) dt.18.08.2021, undersigned inspected the Forest land proposed for 2nd renewal of forest land diversion involving 929.29 ha on **15th and 16th September 2021**. During the inspection the Conservator of Forests, Nirmal, the District Forest Officer, Mancherial, the Forest Divisional Officer, Mancherial, General Manager (Srirampur), General Manager (Estates) SCCL and other Forest and SCCL officials were present.
2. The proposed area of 929.29 ha RF land (including 25.16 Ha of surface use) is falling in compartment Nos.699 to 703, 706 to 709, 711 to 714 of Indaram RF of Mancherial Forest Division of Mancherial district, Telangana (State).
3. The SCCL and the state Government while forwarding the proposal has informed that Indaram Mining Lease was originally sanctioned by State Government vide G.O.Ms.No.438, dated 28.5.1979 for an extent of 2900 Ha. (1070.00Ha. of forest land and 1830.00 Ha. of non-Forest land) for a period of 20 years from 29.7.1980.
4. The Ministry of Environment Forest, Gol vide Lr.No.8-1/2000-FC, dated 28.11.2001 has granted 1st renewal of Indaram Mining Lease over an area of 1070

Ha. forest land u/s.2 of Forest (Conservation) Act, 1980 for a period of 20 years from 24.7.2000. The extent of the area has been subsequently modified by the MOEF as 1054.84 Ha instead of 1070 Ha vide MoEF, GoI Lr.No.8-1/2000-FC, dated 20.3.2002, as the Ministry has already diverted 15.16 Ha. of forest land for surface use of UG mines in favor of User Agency (**annexure-2**).

5. The SCCL submitted proposal on 19.07.2018 for 2nd renewal of forest diversion permission in Indaram Mining Lease over an extent of 929.29Ha. of forest land in Indaram RF instead of 1070 Ha. **It has been informed that after taking the DGPS survey of the 1070 ha, area it was found to be 929.29Ha and not 1070Ha. The surface use area of 15.16 ha includes 6.20 ha of RK-8 incline and 8.96 ha for RKNT mine). of Forest land diverted for surface use.**
6. **It has been informed that MOEF&CC vide Lr. No 8-06-2019 FC (Vol) dt 12.03. 2021 has accorded Stage I approval for diversion of 162.45 ha forest land for Srirampur opencast II expansion project, out of this area, 106.10 ha area is falling in Indaram Mining lease.**
7. It has been informed that all along the boundary of the area the SCCL has demarcated the area on ground by erecting **36 no of boundary pillars** (List of 36 pillars is at **Annexure-3**) Inspected **seven locations** and **verified GPS co-ordinates and found to be tallying with the co-ordinates** furnished on the map. Location details of the pillars is enclosed in separate sheet. Location details of the 7 pillars seen are as below:

S. No	Location	Latitude	longitude
1	F30	18.89978542	79.51736523
2	F32	18.87220593	79.51781237
3	F33	18.86305661	79.51806054
4	RK8-4	18.86284885	79.51874530
5	F14	18.83250097	79.52934927
6	F12	18.83259967	79.52899400
7	F11	18.83269335	79.52813603

8. It has been informed **during the field inspection by the project proponent that the mining in RK-8 underground mine has been closed during September 2020 and mine closure activities are in progress as per the mine closure plan.**

These mine closure activities will be completed within 3-4 years' time. As such the area of this mine is retained in this proposal.

9. It has been also informed that out of 929.29 ha area, an area of 480.83 Ha is being used for underground mines, either working or closed, and an area of 106.10 ha is falling in the proposed Srirampur OC-II expansion project for which stage I already received and remaining area of 342.25Ha is retained by the SCCL for future exploration purpose. The field officers of the Forest department have agreed with these details and accordingly proposal was forwarded.

10. Also visited underground mining in Ravindrakhani new tech incline to understand the UG coal mining and subsidence.

11. In an around this mine in blank area greenery has been developed by the SCCL.

12. The surface area is having mainly coppice growth of Teak, Chloroxylon swietenia, Anogeissus latifolia, Azadirachta indica, Terminalia tomentosa, Diospyros melanoxylon, Cleistanthus collinus, Lagerstroemia parviflora, Ixora, Casia fistula etc. The crop height may be about 1.5 meters. The density of this coppice growth is less than 0.4. The forest growth is of dry deciduous in nature and mainly shrubs. The Forest Divisional officer in his report in part -II has reported that there is no excess area in occupation by SCCL at RK Newtech mine and there is no violation. In this area no unique tree is found, no protected archeological / heritage site / defense establishment or any other important monument is there. This area is not falling in any national park, wild life sanctuary, biosphere reserve, tiger reserve and tiger corridor etc as reported in part -II.

13. The General Manager Srirampur vide his letter ref SRP/EST/F/12/2021/430 dt 14.9.21 (**annexure-4**) has informed that:

a) Indaram mining lease was originally sanctioned by State Government vide G.O.Ms.No.438, dated 28.5.1979 for an extent of 2900 Ha. (1070.00Ha. of forest land and 1830.00Ha. of non-forest land) for a period of 20 years from 29.7.1980.

b) The Ministry of Environment Forest, GoI vide Lr.No.8-1/2000-FC, dated 28.11.2001 has granted 1st renewal of forest diversion for Indaram mining lease

over an area of 1070 Ha. Forest land u/s.2 of Forest (Conservation) Act, 1980, for a period of 20 years from 24.7.2000. The extent of the area has been subsequently modified as 1054.84 Ha. by the Ministry of Environment Forest & Climate Change, Gol instead of 1070 Ha. Vide MoEF, Gol, Lr.No.8-1/2000-FC, dated 20.3.2002 as the Ministry has already diverted 15.16 Ha. Of forest land for surface use in favor of User Agency (copy of the orders enclosed).

S. No	Purpose	Extent (ha)	MoEF &CC Lr.no & Date
1	Ravindra Khani -8 Incline	6.20	Lr. No. FC (A)/16.1/AP/II/MIN, dated 23.2.1996
2	Ravindra Khani New Tech	8.96	Lr.No.8-70/90-FC, dated 23.2.1998
Total		15.16	

c) The SCCL submitted proposal on 19.07.2018 for 2nd renewal of forest diversion permission for Indaram mining lease over an extent of 929.29Ha. of forest land in Indaram RF instead of 1070 Ha as after taking DGPS survey area was found to be 929.29Ha. In the area of 929.29 Ha. Following mines are being operated

1. Ravindra Khani (RK-6) incline.
2. Ravindra Khani new tech (RKNT) incline.
3. Ravindra Khani (RK-7) incline.
4. Ravindra Khani (RK-8) incline.
5. Srirampur opencast project-II (SRP OC-II) (proposed expansion project).

d) All these mines are being operated with approved Mining Plans (by the MoC, Gol) and Environment clearances (MoEF &CC, Gol), details are as follows:

S. No	Name of the mine	Area of the mine (ha)	Approved Mining Plan Letter & Date	Environment Clearance Letter & date
1	RK NT	310.59	These mines are overlapped. No.13016/10/2006-CA-II, dt 25.11.2014	No. J-11015/16/88-IA. II (M) Dt. 04.02.1994
2	RK-7			No. J-11015/298/2007-IA. II (M) Dt. 24.10.2008
3	RK-6	131.43	No.13016/5/2007-CA-II, dt 10.02.2016	No. J-11015/304/2007-IA. II (M) Dt 24.10.2008
4	RK8	38.81	No. 38011/12/2017-PCA, dt 08.03.2018	*Mine is closed.

5	SRP OCP II	106.10	No. 13016/03/2007-CA-II, dt 29.06.2007	No. J-11015/212/2007-IA. II (M) Dt 11.07.2008
6	Area for future exploration	342.36		
	Total	929.29		

In these mines there is balance of 73.7 million tons of extractable reserves which will be extracted by 2038. Details of balance reserves and balance life of mines are as follows

Sl. No	Name of the mine	Balance reserves (Million Tons)	Balance life of the Mine (years)
1	RK7	3.35	06
2	RK NT	2.10	06
3	RK-6	4.10	05
4	RK8	* Mine is closed and mine closure activities are under progress.	
5	SRP OCP II Expn	64.15	17
	Total	73.70	

- e) Out of above 5 mines, one underground mine i.e **RK-8 incline, mining operations were closed in September 2020. However, mine closure plan is to be implemented, which may take about 3-4 years and as such this area is to be kept in this lease.**

After completion of all mine closure activities, the Ministry of Coal, GoI will issue final mine closure certificate. Hence, SCCL made proposal for renewal for entire area i.e. 929.29ha. including the area of RK-8 Underground Mine.

- f) The SCCL has also obtained / approval for Stage –I for Srirampur Opencast II expansion project for an extent of 162.45ha, vide Ministry of Environment, Forest and Climate Change vide Lr. No.8-06-2019/FC (Vol) dt. 12.03.2021. Out of this 162.45ha forest land, an extent of 106.10ha is covered in 2nd renewal of Indaram forest land diversion wherein UG rights will be converted into surface use.
- g) As such, out of total 929.29ha for 2nd renewal of forest land for this lease, in an area of 480.83ha underground mining is being done and an area of 106.10ha is under proposed Srirampur opencast II expansion project for which Stage I is

received, leaving an area of 342.36ha for future exploration in order to cover the entire area under mining lease under the MM (D&R) Act, 2015.

14. Also Inspected some of the plantations raised by the SCCL in degraded forest land of Indaram mining lease for improving the forest density and observed that plantations have been raised in 211 Ha in degraded forests from 2014 to 2019 on the surface of the UG mines. The surface rights and usufructs rights remain with the forest department. Details of plantations raised are as follows:

Sl. No	Year	Area (Ha)	No of saplings planted	Expenditure incurred in Rs till 31.3.2021
1	2014	40	45375	4987095
2	2015	30	33330	3207885
3	2017	41	39638	5935295
4	2018	55	56615	5014203
5	2019	45	48885	4785924
		211	223843	2,39,30,402

As observed the species combination adapted and their growth is excellent. If allowed and protected for next 10 years the density will become good and canopy will get closed. Inspection notes and photos taken during the inspection of Plantations is annexed **at annexure-5**.

Important Findings of the Site Inspection Report:

1. SCCL has not encroached upon the forest land
2. Even though Mine: RK8 is closed in Sept 2020, the Company is in need of this area (38.8ha) for undertaking the mine closure plan
3. There is a change in the area between: the area that was given on lease to SCCL in the 1st renewal (**1070 ha**) and area that is being proposed in the 2nd renewal (**929.29 ha**).

For it the concerned authorities of SCCL in writing mentioned that, area has come down from 1070 ha to 929.29 ha, as now while applying for the 2nd renewal **they got the entire said area surveyed through DGPS.**

4. SCCL is submitting the EC compliance reports periodically to the concerned authorities,



- Over the leased underground mined areas, SCCL is raising successful plantations, with indigenous species and their success percentage is very good.

The above Site Inspection report is based on the reports of the field officers of the forest department, information provided by SCCL and on field inspection done by the undersigned on 15th and 16th of September 2021.

Expenditure incurred in the year 2021	No of saplings planted	(R. Hemanth Kumar)
4087038		Deputy Director General of Forests/ IRO Chennai Ministry of Environment Forest & Climate Change Integrated Regional Office, Chennai
3207885		
6988293		
5014203		
4768824		
2,38,20,402	228843	

As observed the species combination adopted and their growth is excellent. It allowed and protected for next 10 years the density will become good and canopy will get closed. Inspection notes and photos taken during the inspection of Plantations is annexed at annexure-2.

Important findings of the Site Inspection Report:

- SCCL has not encroached upon the forest land.
 - Even though Mine: RK8 is closed in Sept 2020, the Company is in need of the area (38.8ha) for undertaking the mine closure plan.
 - There is a change in the area between the area that was given on lease to SCCL in the 1st renewal (1070 ha) and area that is being proposed in the 2nd renewal (820.52 ha).
- For the concerned authorities of SCCL in which mentioned that area has come down from 1070 ha to 820.52 ha as now while applying for the 2nd renewal they got the entire said area surveyed through DGPS.
- SCCL is submitting the EC compliance reports periodically to the concerned authorities.

Government of India
Ministry of Environment, Forest and Climate Change
(Forest Conservation Division)

Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi: 1100 03,
Dated: 18th August, 2021

To
The Regional Officer,
Integrated Regional Office,
Ministry of Environment, Forest and Climate Change,
Chennai.

Sub: Application for 02nd Renewal of Indaram Mining Lease over 929.29 ha. Of forest land involving 15.16 ha for surface use in compartment No.s from 699 to 703, 706 to 709 and 711 to 713 in Indaram RF, Mancherial Range of Mancherial Forest division in Mancherial District in favour of M/s. Singareni Collieries Company Limited.-reg (Online proposal No. FP/TG/MIN/34878/2018).

Sir,

I am directed to refer to the Government of Telangana's letter No.1398/For.I (1)/2021 dated 29th June, 2021 on the above mentioned subject seeking prior approval of the central Government in accordance with Section-2 of the Forest (Conservation) Act, 1980, and to request that the Regional Office, Chennai of this Ministry may kindly inspect the forest land proposed for diversion and submit a report to this Ministry, at the earliest.

Yours faithfully,
Sd/-
(Sandeep Sharma)
Assistant Inspector General of Forests

Copy to: -

1. The Special Chief Secretary (Forests), Government of Telangana, Hyderabad.
2. The Principal Chief Conservator of Forests (HoFF), Government of Telangana, Hyderabad.
3. The Nodal Officer (FCA), Forest Department, Government of Telangana, Hyderabad.
4. User Agency.
5. Monitoring Cell, FC Division, MoEF, New Delhi.

No. 8-1/2000-FC
Government of India
Ministry of Environment and Forests
F.C. Division

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110 003.
Dated: 20.03.2002

To,

The Secretary(Forest)
Government of Andhra Pradesh
Hyderabad.

Sub: Renewal of mining lease in favour of M/s SCCL for under ground mining in Indaram Reserve Forest over 1070 ha. of forest land in district Adilabad, Andhra Pradesh.

Sir,
I am directed to refer to your letter No. 8211/For.I(1)/99-11 dated 29.01.2002 and the Ministry's letter of even No. dated 28.11.2001 on the above mentioned subject wherein approval was accorded to the proposal subject to certain conditions.

In partial modification of the letter mentioned above, the extent of forest land should be read as "1054.84 hectare" instead of 1070 ha. as the Ministry has already diverted 15.16 ha. forest land in favour of the user agency in the past. The error is regretted.

Yours faithfully

(R.K. GUPTA)
Asst. Inspector General Of Forests

- Copy to,
- 1. PCCF, Govt. of Andhra Pradesh, Hyderabad.
 - 2. Nodal Officer, O/O PCCF, Andhra Pradesh, Hyderabad.
 - 3. CCF(Central), Regional Office, Bangalore.
 - 4. M/s SCCL, Kothagudem Collieries, Bhadrachalam Road Railway Station, Andhra Pradesh-507101.

(R.K. GUPTA)
Asst. Inspector General Of Forests

067
2/4/2002

A
Pl. note @ a inform to
all concerned.
02/04/02

General Manager,
Srirampur Area
The S.C. Company, Ltd.,
Srirampur, Co.

WGS -84 Co-ordinates details of Boundary pillars around the area of 929.29 ha

ID	Name	Longitude	Latitude
1	F1	79.51810144	18.84232644
2	F2	79.51802679	18.84148358
3	F3	79.51864788	18.8411856
4	F4	79.51836042	18.83935528
5	F5	79.5200221	18.83899365
6	F6	79.52018394	18.83970770
7	F7	79.52127987	18.83933057
8	F8	79.52501364	18.83834373
9	F9	79.52416863	18.83611739
10	F10	79.52710494	18.83527466
11	F11	79.52813603	18.83269335
12	F12	79.528994	18.83259967
13	F14	79.52934927	18.83250097
14	B	79.52904821	18.83068529
15	F15	79.53144908	18.83097529
16	F16	79.53240771	18.83105422
17	F17	79.53342798	18.8312039
18	F 18	79.53364008	18.83089072
19	F 19	79.53419149	18.83004017
20	C	79.53419087	18.82989553
21	F20	79.53418873	18.82977041
22	F21	79.5379623	18.83170674
23	F22	79.53766985	18.83169051
24	F23	79.53740331	18.83153207
25	FL7	79.53719655	18.83162721
26	FL6	79.53676002	18.83157628
27	F25	79.53892957	18.83409846
28	F26	79.53992039	18.83539953
29	F27	79.54200426	18.83432669
30	F28	79.54322897	18.83506677
31	F29	79.52593543	18.8772329
32	F30	79.51736523	18.89978542
33	F31	79.5186442	18.88452820
34	F32	79.51781237	18.87220593
35	F33	79.51806054	18.86305661
36	F35	79.5175741	18.84264511

M. Kesh
 General Manager
 Srirampur area.

Map showing Diversion of Forest Land for Proposed for Indaram Mining Lease in Indaram RF & Indaram Ext-I in Mancherial Division in favour of SCL, Srirampur Area, Mancherial

Total Mining Lease = 629.29 Ha (including Surface Rights = 15.18 Ha)

ID	Name	Eastng	Northing	Longitude	Latitude
1	WT2	342811.476	2087633.602	79.50776874	18.87468371
2	SRP2	343009.088	2085210.900	79.51800369	18.85276423
3	SRP1 (2)	343070.601	2085211.182	79.51801218	18.85298411
4	SRP1	343068.936	2085211.476	79.51799653	18.85296857
5	R1	343047.880	2085195.152	79.51779807	18.85281949
6	FL7	343072.558	2082832.725	79.53719655	18.83162721
7	FL6	343026.509	2082827.467	79.53670002	18.83157628
8	FL2	343056.107	2083244.624	79.54376426	18.83540037
9	F9	344003.772	2083341.042	79.52410863	18.83611739
10	F8	344594.867	2083586.702	79.52501864	18.83834173
11	F7	344202.317	2083699.196	79.52127987	18.83933057
12	F6	344067.177	2083741.809	79.52018394	18.83970770
13	F5	344001.465	2083663.014	79.52002210	18.83899365
14	F4	343994.692	2083704.498	79.51888042	18.83935528
15	F35	343814.874	2084009.294	79.51757410	18.84264511
16	F34	343850.990	2085193.533	79.51782725	18.85280510
17	F33	343805.019	2080327.919	79.51806054	18.86007661
18	F32	343867.344	2087940.746	79.51781237	18.87220593
19	F31	343866.295	2085703.789	79.51864420	18.84452820
20	F30	343845.806	2083933.525	79.51736523	18.89978542
21	F1	343926.677	2083006.816	79.51864788	18.84118560
22	F29	344727.804	2087893.964	79.52593543	18.87723290
23	F28	346511.896	2083208.166	79.54322897	18.83506677
24	F27	346381.662	2083127.318	79.54200426	18.83432669
25	F26	346163.039	2083247.859	79.53992039	18.83539953
26	F25	346057.441	2083104.724	79.53892957	18.83409846
27	F24	345872.558	2082832.725	79.53719655	18.83162721
28	F23	345894.260	2082822.015	79.53740331	18.83153207
29	F22	345822.494	2082839.318	79.53766985	18.83169051
30	F21	345953.328	2082840.861	79.53796230	18.83170674
31	F20	345553.889	2082629.839	79.53418873	18.82977041
32	F2	343861.503	2083940.342	79.51802679	18.84148358
33	F19	345554.426	2082659.693	79.53419149	18.83004017
34	F18	345497.095	2082754.307	79.53364008	18.83080072
35	F17	345475.030	2082789.153	79.53342798	18.83120390
36	F16	345367.373	2082773.475	79.53240771	18.83105422
37	F15	345266.278	2082765.575	79.53144908	18.83097529
38	F14	345046.391	2082936.262	79.52934927	18.83250097
39	F13	345011.478	2082947.371	79.52901712	18.83259872
40	F12	345009.043	2082947.496	79.52899400	18.83259967
41	F11	344918.713	2082958.615	79.52813603	18.83269335
42	F10	344812.427	2083245.202	79.52710494	18.83274666
43	F1	343870.149	2084033.561	79.51801444	18.84232644
44	C	345554.229	2082643.684	79.53419087	18.82989553
45	B	345012.999	2082735.575	79.52904821	18.83068529
46	4 G14E+15	343868.938	2085211.476	79.51799653	18.85296857
47	SRP1	343871.283	2085209.310	79.51801896	18.85294918
48	RKNT 5A	345557.186	2085661.778	79.53398221	18.85716382
49	RKNT 6	345506.589	2085823.206	79.53348937	18.85861850
50	RKNT 5	345558.975	2085656.095	79.53399963	18.85711260
51	RKNT 7	345353.643	2085775.916	79.53204162	18.85817981
52	RKNT 4	345321.225	2085580.475	79.53174934	18.85641160
53	RKNT 8	345330.239	2085850.247	79.53181367	18.85884962
54	RKNT 3	345338.837	2085522.136	79.53192106	18.85588583
55	RKNT 9	345123.598	2085785.453	79.52985773	18.85824874
56	RKNT 2	345213.152	2085497.108	79.53073029	18.85565031
57	RKNT 1	345185.519	2085583.345	79.53046126	18.85642737
58	RK 1A	344171.644	2086465.319	79.52076980	18.86431963
59	RK 3	343825.517	2086486.537	79.51748321	18.86448519
60	RK 4	343956.975	2086304.321	79.51874530	18.86284885
61	RK 2	344065.627	2086652.439	79.51974883	18.86600221
62	RK 1	344184.366	2086471.031	79.52089008	18.86437220

Legend

- DGPS Surveyed Points
- Surface Rights
- Area Proposed for Diversion

Geographic Coordinate System - WGS84 Datum (UTM 44N)

0 750 1,500 3,000 Meters



THE SINGARENI COLLIERIES COMPANY LIMITED

(A Government Company
SRIRAMPUR AREA)

Ref.No. SRP/EST/F/12/2021/430

Date: 14.09.2021

To

**The Deputy Director General of Forests,
Ministry of Environment, Forest and Climate Change,
Regional Office, Chennai.**

Sir,

Sub: Indaram mining lease 2nd renewal over 929.29 Ha. of forest land involving 15.16 Ha. For surface use in compartment Nos.699 to 703,706 and 709,711 to 713 in Indaram RF, Mancherial forest division in favor of M/s Singareni Collieries Company Limited (SCCL)–submission of additional information on the issues raised during discussions -Reg.

Ref: 1. Proposal No.PCCF-FP/TG/MFM/34878/2018
2. MoEF&CC.GOI File No File No.8-01/2000-FC (Vol) Dt. 18.08.2021.

Kind attention is invited to the subject cited. As desired during course of site inspection of the area, proposal for 2nd renewal of forest diversion for Indaram mining lease, additional information is furnished hereunder.

1. Indaram mining lease was originally sanctioned by State Government vide G.O.Ms.No.438, dated 28.5.1979 for an extent of 2900 Ha. (1070.00Ha. of forest land and 1830.00Ha. of non forest land) for a period of 20 years from 29.7.1980.

The Ministry of Environment Forest, GoI vide Lr.No.8-1/2000-FC, dated 28.11.2001 has granted 1st renewal of forest diversion for Indaram mining lease over an area of 1070 Ha. Forest land u/s.2 of Forest (Conservation) Act, 1980, for a period of 20 years from 24.7.2000. The extent of the area has been subsequently modified as 1054.84 Ha. by the Ministry of Environment Forest & Climate Change, GoI instead of 1070 Ha. Vide MoEF, GoI, Lr.No.8-1/2000-FC, dated 20.3.2002 as the Ministry has already diverted 15.16 Ha. Of forest land for surface use in favour of User Agency (copy of the orders enclosed).

S.No	Purpose	Extent (ha)	MoEF &CC Lr.no & Date
1	Ravindra Khani -8 Incline	6.20	Lr.No.FC(A)/16.1/AP/II/MIN, dated 23.2.1996
2	Ravindra Khani New Tech	8.96	Lr.No.8-70/90-FC, dated 23.2.1998
Total		15.16	

2. The SCCL submitted proposal on 19.07.2018 for 2nd renewal of forest diversion permission for Indaram mining lease over an extent of 929.29Ha. of forest land in Indaram RF instead of 1070 Ha as after taking DGPS survey area was found to be 929.29Ha. In the area of 929.29 Ha. Following mines are being operated
 - a) Ravindra Khani (RK-6) incline.

- b) Ravindra Khani new tech (RKNT) incline.
 c) Ravindra Khani (RK-7) incline.
 d) Ravindra Khani (RK-8) incline.
 e) Srirampur opencast project-II (SRP OC-II) (proposed expansion project).
3. All these mines are being operated with approved Mining Plans (by the MoC, GoI) and Environment clearances (MoEF &CC,GoI), details are as follows:
 Soft copies of the approved mining plans are enclosed herewith separately in pen drive.

S.No	Name of the mine	Area of the mine (ha)	Approved Mining Plan Letter & Date	Environment Clearance Letter & date
1	RK NT	310.59	These mines are overlapped. No.13016/10/2006-CA-II, dt 25.11.2014	No. J-11015/16/88-IA.II(M) Dt. 04.02.1994
2	RK-7			No. J-11015/298/2007-IA.II(M) Dt. 24.10.2008
3	RK-6	131.43	No.13016/5/2007-CA-II, dt 10.02.2016	No. J-11015/304/2007-IA.II(M) Dt 24.10.2008
4	RK8	38.81	No. 38011/12/2017-PCA, dt 08.03.2018	*Mine is closed.
5	SRP OCP II	106.10	No. 13016/03/2007-CA-II, dt 29.06.2007	No. J-11015/212/2007-IA.II(M) Dt 11.07.2008
6	Area for future exploration	342.36		
Total		929.29		

In these mines there is balance of 73.7 million tons of extractable reserves which will be extracted by 2038. Details of balance reserves and balance life of mines are as follows:

S. No	Name of the mine	Balance reserves (Million Tons)	Balance life of the Mine (years)
1	RK7	3.35	06
2	RK NT	2.10	06
3	RK-6	4.10	05
4	RK8	* Mine is closed and mine closure activities are under progress.	
5	SRP OCP II Expn	64.15	17
Total		73.70	

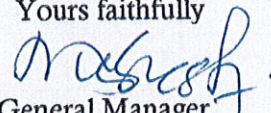
4. Out of above 5 mines, one underground mine i.e RK-8 incline, mining operations were closed in September 2020. However, mine closure plan is to be implemented, which may takes about 3-4 years and as such this area is to be kept in this lease.

After completion of all mine closure activities, the Ministry of Coal, GoI will issue final mine closure certificate. Hence, SCCL made proposal for renewal for entire area i.e 929.29ha. including the area of RK-8 Under ground Mine.

5. The SCCL has also obtained / approval for Stage -I for Srirampur Opencast II expansion project for an extent of 162.45ha, vide Ministry of Environment, Forest and Climate Change vide Lr. No.8-06-2019/FC (Vol) dt. 12.03.2021. Out of this 162.45ha forest land, an extent of 106.10ha is covered in 2nd renewal of Indaram forest land diversion wherein UG rights will be converted into surface use.
6. As such, out of total 929.29ha for 2nd renewal of forest land for this lease, in an area of 480.83ha underground mining is being done and an area of 106.10ha is under proposed Srirampur opencast II expansion project for which Stage I is received, leaving an area of 342.36ha for future exploration in order to cover the entire area under mining lease under the MM (D&R) Act, 2015.

Hence, it is requested to kindly consider and recommend the proposal of 2nd Renewal of forest diversion for an extent of 929.29ha. in favor of SCCL.

Yours faithfully


General Manager,
Srirampur area, SCCL.

General Manager
SRIRAMPUR

WGS -84 Co-ordinates details of Boundary pillars around the area of 929.29 ha

ID	Name	Longitude	Latitude
1	F1	79.51810144	18.84232644
2	F2	79.51802679	18.84148358
3	F3	79.51864788	18.8411856
4	F4	79.51836042	18.83935528
5	F5	79.5200221	18.83899365
6	F6	79.52018394	18.83970770
7	F7	79.52127987	18.83933057
8	F8	79.52501364	18.83834373
9	F9	79.52416863	18.83611739
10	F10	79.52710494	18.83527466
11	F11	79.52813603	18.83269335
12	F12	79.528994	18.83259967
13	F14	79.52934927	18.83250097
14	B	79.52904821	18.83068529
15	F15	79.53144908	18.83097529
16	F16	79.53240771	18.83105422
17	F17	79.53342798	18.8312039
18	F 18	79.53364008	18.83089072
19	F 19	79.53419149	18.83004017
20	C	79.53419087	18.82989553
21	F20	79.53418873	18.82977041
22	F21	79.5379623	18.83170674
23	F22	79.53766985	18.83169051
24	F23	79.53740331	18.83153207
25	FL7	79.53719655	18.83162721
26	FL6	79.53676002	18.83157628
27	F25	79.53892957	18.83409846
28	F26	79.53992039	18.83539953
29	F27	79.54200426	18.83432669
30	F28	79.54322897	18.83506677
31	F29	79.52593543	18.8772329
32	F30	79.51736523	18.89978542
33	F31	79.5186442	18.88452820
34	F32	79.51781237	18.87220593
35	F33	79.51806054	18.86305661
36	F35	79.5175741	18.84264511

M. G. S.
General Manager
Srisaipur area.



3812

O.F.C(A) 16.1/AP/II/MIN

OFFICE
Telephone: PARYAVARAN,
NEW DELHI
FAX: 4300678

पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
पर्यावरण भवन सी० जी० ब्लॉक
PARYAVARAN BHAWAN, C.O. COMPLEX
लोधी रोड, नई दिल्ली-110003
LODHI ROAD, NEW DELHI-110003

Dated the 23rd February, 1996

To
The Secretary (Forests)
Government of Andhra Pradesh
Hyderabad.

Subject: Diversion of 6.2 ha. of forest land for Ravindra Khani No.8
Incline project of M/s.SCL in Adilabad district.

Sir,

I am directed to refer to your letter No.18945/For.I/92-1 dated
3.10.1992 on the above mentioned subject seeking prior approval of the
Central Government in accordance with Section-2 of the Forest
(Conservation) Act, 1980.

2. After careful consideration of the proposal of the State Government,
the Central Government hereby conveys its approval under Section-2 of the
Forest (Conservation) Act, 1980 for diversion of 6.2 ha. of forest land
for Ravindra Khani No.8 Incline project of M/s.SCL in Adilabad district
subject to the following conditions:-

- i) Legal status of forest land shall remain unchanged.
- ii) Compensatory afforestation shall be raised over 12.4 ha. of non-forest land at the cost of user agency.
- iii) Mined area will be reclaimed at the cost of user agency.
- iv) Forest land shall not be used for any purpose other than that specified in the proposal.
- v) Any other condition that the State Government may impose.

Yours faithfully,

A.N. SHARAN
26.2.96

(A.N. SHARAN)
Asstt. Inspector General of Forests

13.16A

1054
DIR
PARYAVAHAN
NEW DELHI
Telephone
Telex (to be supplied) W 0610/DIR III
FAX

भारत सरकार
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
पार्यावरण तथा वन विभाग
PARYAVAHAN BHAVAN, C.G.O. COMPLEX
लोदी रोड, नई दिल्ली-110003
Dated: 23.02.1998



The Secretary (Forest),
Government of Andhra Pradesh,
HYDERABAD

Subject - Diversion of 3.96 ha. of forest land for mine entry and ancillary activities for Ravindra Khari New Tech Underground Project by SCL in Adilabad district.

Date of receipt of application 20.3.98
Date of State Govt. approval 22.12.97
Date of State Govt. compliance 18.12.97

I am directed to refer to your letter No.6267/For.I/90-1 dated 20.3.98 on the above mentioned subject seeking prior approval of the Central Government in accordance with Section-2 of the Forest (Conservation) Act, 1980.

After careful consideration of the proposal of the State Government, the Central Government hereby conveys its approval under Section-2 of the Forest (Conservation) Act, for diversion of 3.96 ha. of forest land for mine entry and other ancillary activities for Ravindra Khari New Tech Underground Project by SCL Adilabad district, subject to following conditions:-

- (i) Legal status of forest land shall remain unchanged.
- (ii) The compensatory afforestation shall be raised over equivalent non forest land at the project cost.
- (iii) The net compensatory afforestation shall be raised over double the denuded forest land at the project cost.
- (iv) Demarcation of the diverted forest land will be done on the ground at the project cost using 4 feet height concrete pillars having serial No., bearing and distance from pillar to pillar.
- (v) On completion of project the forest area shall be reclaimed/restored with suitable soil for afforestation in the adjoining underground area.

No fresh forest land will be broken up during the winter leave period.

Any other condition that the State Government may impose from time to time for the protection and improvement of flora and fauna in the forest areas.

Yours faithfully,

(V.P. KUMAR)
ASSTT. INSPECTOR GENERAL OF FORESTS

Principal Chief Conservator of Forests, Govt. of Andhra Pradesh, Hyderabad.

Nodal Officer, Office of PCCF, Govt. of Andhra Pradesh, Hyderabad.

The CCF (Central), Regional Office, Bangalore.

CCF (HQ), New Delhi.

Guard File

Dr. Bandhopadhyay, Dir. Wing for INTERNET

(Handwritten Signature)
23/2

(V.P. KUMAR)
ASSTT. INSPECTOR GENERAL OF FORESTS

Map showing Diversion of Forest Land for Proposed for Indaram RF & Indaram Ext-I in Mancherla Division in favor of SCL, Srirampur Area, Mancherla

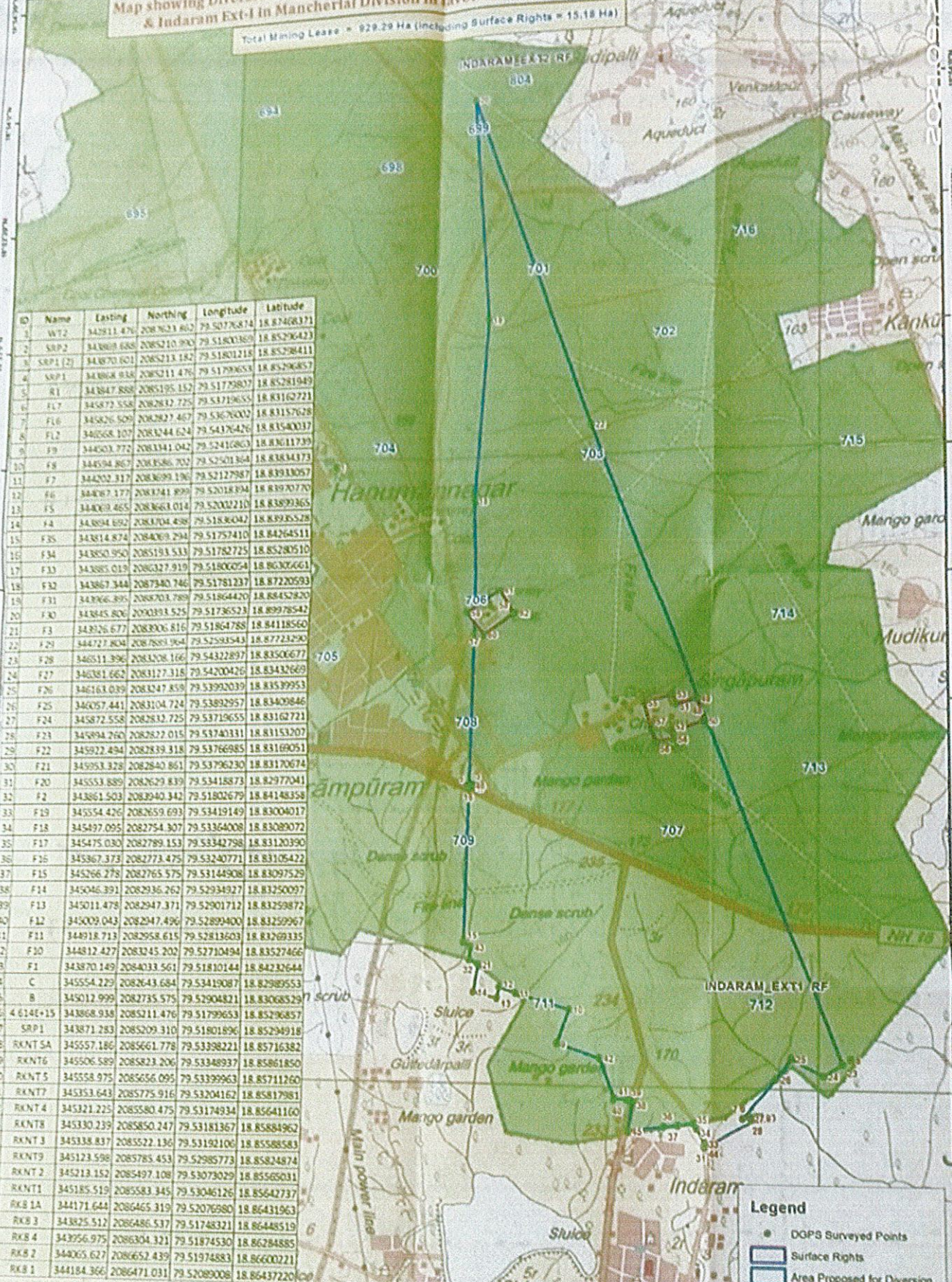
Total Mining Lease = 929.29 Ha (including Surface Rights = 15.18 Ha)

ID	Name	Easting	Northing	Longitude	Latitude
1	WT2	342911.476	2087623.862	79.50776874	18.874083171
2	SHP2	343808.688	2085210.900	79.51800369	18.85296423
3	SHP1 (2)	343870.601	2085213.182	79.51801218	18.85298411
4	SHP1	343868.938	2085211.476	79.51799653	18.85296857
5	R1	343847.888	2085195.152	79.51779807	18.85281949
6	FL7	345872.558	2082832.725	79.53179655	18.83162721
7	FL6	345826.509	2082827.467	79.53670002	18.83157628
8	FL2	340568.107	2083244.624	79.54176426	18.83540037
9	F9	344503.772	2083341.042	79.52416863	18.83611739
10	F8	344594.867	2083586.702	79.52501364	18.83834373
11	F7	344202.317	2083699.176	79.52127987	18.83933057
12	F6	344087.177	2083741.899	79.52018394	18.83970770
13	F5	344069.465	2083663.014	79.52002210	18.83899365
14	F4	343894.892	2083704.488	79.51886042	18.83935528
15	F35	343814.874	2084009.294	79.51757410	18.84264511
16	F34	343850.950	2085193.533	79.51782725	18.85280510
17	F33	343885.019	2086327.919	79.51860054	18.86300661
18	F32	343867.344	2087980.746	79.51781237	18.87220593
19	F31	343966.395	2088703.789	79.51864470	18.88452820
20	F30	343845.806	2090393.525	79.51736523	18.89978542
21	F3	343226.677	2083006.816	79.51864788	18.84118560
22	F29	344727.804	2087693.964	79.52585343	18.87723290
23	F28	346511.396	2083208.166	79.54322897	18.83506677
24	F27	346381.662	2083127.318	79.54200426	18.83432669
25	F26	346163.039	2083247.859	79.53992039	18.83539953
26	F25	346057.441	2083104.724	79.53892957	18.83409846
27	F24	345872.558	2082832.725	79.53179655	18.83162721
28	F23	345894.266	2082827.015	79.53740331	18.83153207
29	F22	345922.494	2082839.318	79.53766885	18.83169051
30	F21	345953.328	2082840.342	79.53796230	18.83170674
31	F20	345553.889	2082629.839	79.53418873	18.82977041
32	F2	343861.503	2083940.342	79.51802679	18.84148358
33	F19	345554.426	2082659.693	79.53419149	18.83004017
34	F18	345497.095	2082754.307	79.53364008	18.83089072
35	F17	345475.030	2082789.153	79.53342798	18.83120390
36	F16	345367.373	2082773.475	79.53240771	18.83105422
37	F15	345266.275	2082765.575	79.53144908	18.83097529
38	F14	345046.391	2082936.262	79.52934927	18.83250097
39	F13	345011.478	2082947.371	79.52901712	18.83259872
40	F12	345009.043	2082947.496	79.52899400	18.83259967
41	F11	344918.713	2082958.615	79.52813603	18.83269335
42	F10	344812.427	2083245.202	79.52710494	18.83527466
43	F1	343870.149	2084033.561	79.51810144	18.84232644
44	C	345554.229	2082643.684	79.53419087	18.82989553
45	B	345012.999	2082735.575	79.52904821	18.83068529
46	4.614E+15	343868.938	2085211.476	79.51799653	18.85296857
47	SHP1	343871.283	2085209.310	79.51801896	18.85294918
48	RKNT SA	345557.186	2085661.778	79.53398221	18.85716382
49	RKNT6	345506.589	2085823.206	79.53348937	18.85861850
50	RKNT 5	345558.975	2085656.095	79.53399963	18.85711260
51	RKNT7	345353.643	2085775.916	79.53204162	18.85817981
52	RKNT 4	345321.225	2085580.475	79.53174934	18.85641160
53	RKNT8	345330.239	2085850.247	79.53181367	18.85884962
54	RKNT 3	345338.837	2085522.136	79.53192106	18.85588583
55	RKNT9	345123.598	2085785.453	79.52985773	18.85824874
56	RKNT 2	345213.152	2085497.108	79.53073029	18.85565031
57	RKNT1	345185.519	2085583.345	79.53046126	18.85642737
58	RKB 1A	344171.644	2086465.319	79.52076980	18.86431963
59	RKB 3	343825.512	2086486.537	79.51748321	18.86448519
60	RKB 4	343956.975	2086304.321	79.51874530	18.86284885
61	RKB 2	344065.627	2086652.439	79.51974883	18.86600221
62	RKB 1	344184.366	2086471.031	79.52089008	18.86437220

Legend

- DGPS Surveyed Points
- Surface Rights
- Area Proposed for Diversion

Geographic Coordinate System - WGS84 Datum (UTM 44N)



Annexure-5

Inspection Note on plantations done by SCCL (Density improvement in degraded forest land) over the surface of underground mines, covered in Indaram Mining Lease

The SCCL has taken up improvement of degraded forest land (density < 0.4) with in the mine lease boundary of Indaram mining lease as stipulated by the Government of India by raising plantations in areas which are degraded and having density of growth lesser than 0.4. In total in 211 Ha density improvement plantations were taken up with local species. Details are as follows

Sl. No	Year	Area (Ha)	No of saplings planted	Expenditure incurred in Rs till 31.3.2021
1	2014	40	45375	4987095
2	2015	30	33330	3207885
3	2017	41	39638	5935295
4	2018	55	56615	5014203
5	2019	45	48885	4785924
Total		211	223843	2,39,30,402/-

Details of year wise plantations are as follows

1. 2014 RF land plantation near Cross Road of Chennur & GDK (712 compartment) (40 Ha)

Location: Lat & Long. : 18.843559N, 79.529014 E

About 40 Ha of degraded RF land has been taken up for raising of misc. block plantation during the year 2014. Majority of the forest area (> 90%) was covered with badly damaged rudiments of *Tectona grandis*, *Chloroxylon swietenia*, *Diospyros melanoxylon*, *Cleistanthus collinus*, *Lagerstroemia parviflora*, *Ixora brachiata*, *Cassia fistula* etc. Most of the area was badly eroded in nature. These plant species were badly

and repeatedly felled by the local people for their fuel wood need. Growth was not more than 1.5 Meters in height.

Plantation was raised under Semi mechanical method. As a part of SMC works and protection of plantation, peripheral trench of 2m X 2m was dug out along the length of the periphery. While digging the CCPT, septa were retained at regular interval depending on the slope of the area so as to improve infiltration, to control run-off and to increase the life of the trench. Before raising of plantation, ploughing was carried out across the contour.

As per the available records, planting was taken up during July – August 2014. Different native plant species (raised in 5 x 9" and 6x 12" bags) in combination with Bamboo at spacing of 3m x3m were planted in this area. In total about **45375 plants were planted.**

Details of the seedlings planted

Sl.No.	Name of the species	No of seedlings
1	Bombax ceiba	3100
2	Pterocarpus marsupium	7129
3	Dalbergia latifolia	2639
4	Hardwickia binata	14704
5	Dendrocalamus strictus	9326
6	Terminalia bellirica	3927
7	Emblica officinalis	380
8	Ficus religiosa	301
9	Ficus bengalensis	596
10	Ficus mollis	484
11	Aegle marmelos	1105
12	Albizia procera	443
13	Sterculia urens	101
14	Bouganvillia	120
15	Casia nodasa	500
16	Delonix regia	520
	Total	45375

Agave suckers and Saccharum munja slips were planted on the mounds of the trenches and seeds of Acacia nilotica were dibbled on the trench mound to act as live hedge / fencing to prevent cattle entry. Protection with watch and ward has been

provided. Similarly, *S. munja* was planted along the streams passing through the plantation so that it controls soil erosion and can act as a hide for animals residing in these areas.

The present survival of this plantation is about 75 %. In this plantation area the species *Hardwickia binata*, *Ficus T. bellirica* and Bamboo are coming up very well.

2. 2015 RF land plantation near Cross Road of Chennur & GDK (712 compartment) (30 Ha)

Location: Lat & Long. : 18.842268 N, 79.541091 E

As per the records planting was taken up during July – August 2015. Keeping in view of the Eco-Forestry concept, different native plant species (raised in 5 x 9" and 6x 12" bags) in combination with Bamboo at spacing of 3m x3m were planted. In total about **33330 plants were planted.**

Sl.No.	Name of the species	No of seedlings planted
1	<i>Bombax ceiba</i>	2500
2	<i>Pterocarpus marsupium</i>	4350
3	<i>Dalbergia latifolia</i>	2340
4	<i>Hardwickia binata</i>	7900
5	<i>Dendrocalamus strictus</i>	8000
6	<i>Terminalia bellirica</i>	3800
7	<i>Emblica officinalis</i>	380
8	<i>Ficus religiosa</i>	364
9	<i>Ficus bengalensis</i>	750
10	<i>Ficus mollis</i>	600
11	<i>Aegle marmelos</i>	1105
12	<i>Albizia procera</i>	500
13	<i>Sterculia urens</i>	101
14	<i>Bougainvillia</i>	120
16	<i>Delonix regia</i>	520
	Total	33330

Agave suckers and *Saccharum munja* slips were also planted on the mound of the trenches and *Acacia nilotica* seeds were dibbled on the trench mound to act as live hedge / fencing to prevent cattle entry. Protection with watch and ward has been provided.

Similarly, *S. munja* was planted along the streams passing through the plantation so that it acts as hiding habitat for wildlife and controlling soil erosion.

The present survival is about 85 %. Particularly the species like *Hardwickia*, *T. bellirica* and *Bamboo* are coming up very well

3. 2017 Block plantation in RF of Indaram Extension Mining lease Area (SMM) (41 Ha)

Location: Lat & Long. : 18.854110N, 79.537068 E

As per the records planting was taken up during July – August 2017. Keeping in view of the Eco-Forestry concept, different native plant species (raised in 5 x 9" and 6x 12" bags) in combination with *Bamboo* at spacing of 3m x3m were planted. In total about **39638 plants were planted.**

Details of seedlings planted		
Sl.No.	Name of the species	No of seedlings
1	<i>Dendrocalamus strictus</i>	9840
2	<i>Hardwickia binata</i>	6850
3	<i>Dalbergia latifolia</i>	3550
4	<i>Aegle marmelos</i>	1845
5	<i>Ficus religiosa</i>	2600
6	<i>Ficus bengalensis</i>	1750
7	<i>Ficus carica</i>	2050
8	<i>Feronia limonia</i>	600
9	<i>Emblica officinalis</i>	1350
10	<i>Pterocarpus marsupium</i>	1140
11	<i>Azadiracta indica</i>	300
12	<i>Syzizium cumini</i>	200
13	<i>Madhuca indica</i>	2970
14	Misc	4593
	Total	39638

The success percentage of this plantation at the time of inspection is around 95%. Particularly the species *Hardwickia*, *Bamboo*, *Ficus*, *T. bellirica* *Gyrocarpus jacuni*, *Stercuia urens* etc are coming up very well

4. 2018 Block plantation in RF of Indaram Mining lease Area (SMM) -- 55 Ha

Location: Lat & Long.: 18.84883 N, 79.53409 E & 18.851008 N 79.524914 E

As per the records planting was taken up during July – August 2018. Keeping in view of the Eco-Forestry concept, different native plant species (raised in 5 x 9” and 6x 12” bags) in combination with Bamboo at spacing of 3m x3m were planted. In total about **56615 plants were planted.**

Sl.No.	Name of the species	No of seedlings planted
1	Dendrocalamus strictus	13500
2	Hardwickia binata	11780
3	Ficus bengalensis	4565
4	Ficus religiosa	4785
5	Ficus glomerata	4600
6	Emblica officinalis	1015
7	Bombax ceiba	1165
8	Delonix regia	1365
9	Inga dulci	650
10	Annona squamosa	1850
11	Terminalia bellirica	2030
12	Gyrocarpus americanus	1315
13	Feronia limonia	2015
14	Cordia myxa	1400
15	Pterocarpus santalinus	200
16	Dalbergia latifolia	370
17	Bougainvillia	3000
18	Madhuca indica	900
19	Pterocarpus marsupium	110
	Total	56615

Agave suckers and Saccharum munja slips were also planted on the mound of the trenches to act as live hedge / fencing to prevent cattle entry. Protection with watch and ward has been provided to protect the plantation from biotic interference.

The present survival of the plantation is 85 %. Particularly the species Hardwickia, Bamboo, Ficus, T. bellirica are coming up very well

5. 2019 Block plantation in RF of IML and IEML Area (SMM) 45 Ha

Location: Lat & Long. : 18.847803 N 79.538343 E

As per the records, planting was taken up during July – August 2019. Keeping in view of the Eco-Forestry concept, different native plant species (raised in 5 x 9” 6x 12” and 8”x14” bags) in combination with Bamboo at spacing of 3m x3m were planted. In total about **48885 plants were planted.**

Sl.No.	Name of the species	No of seedlings
1	Dendrocalamus strictus	11050
2	Hardwickia binata	7200
3	Ficus bengalensis	7000
4	Ficus religiosa	3800
5	Ficus mollis	3350
6	Azadiracta indica	3150
7	Emblica officinalis	2650
8	Dalbergia latifolia	1150
9	Tamrindus indica	2000
10	Syzygium cumini	1950
11	Misc	1580
12	Miyawaki plantation	4000
	Total	48885

During the time of planting urban compost from GHMC, Hyderabad was brought and applied in the pits at the rate of 1 kg per pit. This compost application has shown very good results wrt growth of the plantation.

On experimental basis about 4000 seedlings were planted under **Miyawaki** concept at closure spacing of 1.0 mt escapement. Now the area is completely covered with vegetation and custard apple is fruiting.

Agave suckers and Saccharum munja slips were also planted on the mound of the trenches to act as live hedge / fencing to prevent cattle entry. Protection with watch and ward has been provided to protect the plantation from biotic interference.

It was told that, during first year maintenance causality replacements were done with 8100 nos of plants and also Inter ploughing was done in crisscross manner the plantation to make it weed free and improve the growth of the seedlings.

The present survival of this plantation is 90 %. Particularly the species Hardwickia, Ficus species, T. bellirica, Bamboo etc are coming up very well.

Miyawaki plantation

During 2019 misc. plantation was raised in small patch of 0.4 Ha in the RF land of Indaram mining lease. Here in this Miyawaki plantation, SCCL used urban compost which they brought from Hyderabad. In this plantation they have planted about 4000 seedlings, details of them are as follows:

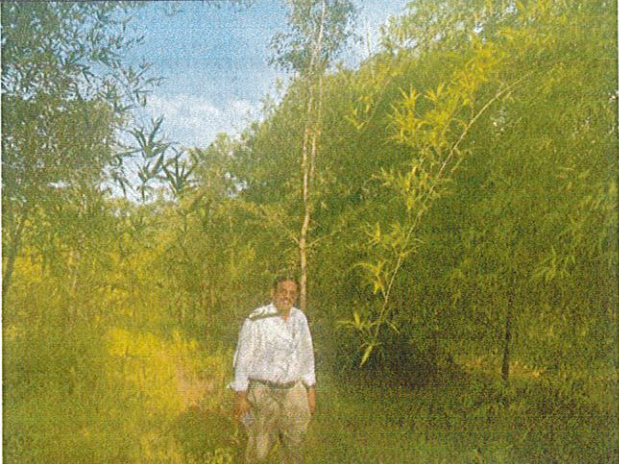
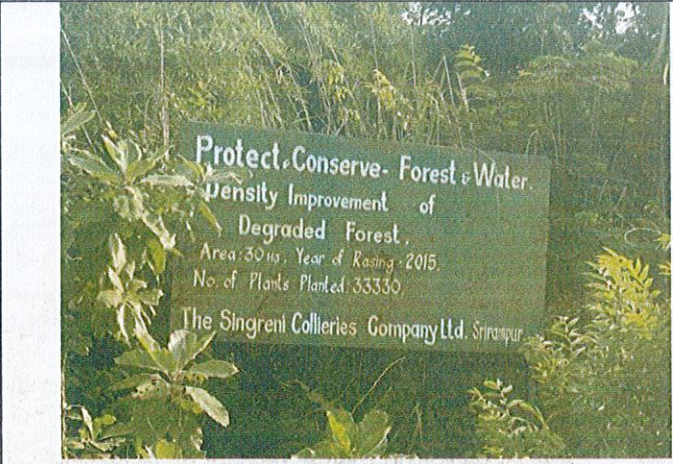
Sl.No	Name of the species	No of seedlings planted
1	Ficus mollis	197
2	Madhuca indica	235
3	Dalbergia latifolia	150
4	Annona squamosa	302
5	Cordia myxa	210
6	Soymida febrifuga	196
7	Terminalia Arjuna	196
8	Emblica officinalis	345
9	Azadiracta indica	181
10	Pongamia pinnata	180
11	Aegle marmelos	146
12	Ficus bengalensis	201
13	Ficus religiosa	285
14	Albizzia lebeek	280
15	Terminalia bellirica	215
16	Hardwickia binata	156
17	Feronia limonia	180
18	Ficus religiosa	175
19	Ficus carica	100
20	Dendrocalamus strictus	75
Total		4005

As per the records they have incurred an expenditure of about Rs 1,39,730.00 in the last two years. A successful plantation in deed and more such plantations are to be raised by SCCL in future.

Photos during Site Inspection of Indaram Mine area



Photos of Plantation Areas







GPS Map Camera

Indaram, Telangana, India
Tekumatla - Srirampur Rd, Indaram, Telangana 504216, India
Lat 18.83073° Long 79.535356°
15/09/21 05:32 PM



GPS Map Camera

Adilabad, Telangana, India
Telangana 504216, India
Lat 18.852254° Long 79.536521°
15/09/21 05:04 PM



GPS Map Camera

Adilabad, Telangana, India
Telangana 504216, India
Lat 18.852254° Long 79.536515°
15/09/21 05:04 PM

