

SCHEME FOR FENCING, PROTECTION AND REGENERATION AND RAISING AND MAINTENANCE OF ENRICHMENT PLANTATION IN LIEU OF SAFETY ZONE AREA OF 0.65 Ha OF M/s. SAI SONU GRANITES, KUPPAM, CHITTOOR DISTRICT, A.P.



As per the clarification issued by the Principal Chief Conservator of Forests, AP, Hyderabad Rc.No.10124/1999/F2, dt:02.06.1999, an area of 0.42 Ha of safety zone area has been demarcated with a width of 7.50 Mts. all along the outer boundary of the mining area of 3.98 Ha of M/s. Sai Sonu Granites, Kuppam, Chittoor District in Basavapalli Extn., RF of Bommasamudram beat, Chittoor East WL Division, Chittoor.

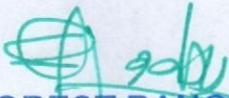
The scheme proposals for Fencing, Protection & Regeneration in the Safety zone area Raising and Maintenance of Enrichment Plantation in lieu of the safety zone area, in degraded forest land, and scheme is furnished herewith.

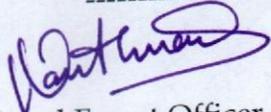
An extent of 0.65 Ha ($0.42 \times 1\frac{1}{2} = 0.63$ or 0.65) for Raising of Enrichment Plantation over $1\frac{1}{2}$ times of safety zone area, is proposed in degraded forest area in Compt.No.456, Basavapalli Extn., RF of Bommasamudram beat in Chittoor East Range.

The following unit costs for Fencing, Protection and Regeneration in the safety zone area and for raising and maintenance of Enrichment Plantation lieu of the safety zone area are proposed in preparation of the scheme.

The details of the scheme proposals for safety zone area & Enrichment Plantation are as follows. (Data enclosed).

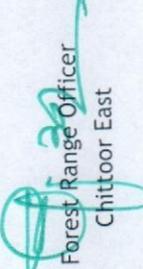
A) <u>Safety Zone area</u>		
i) Protection & Regeneration in the safety zone Area		Rs. 39,900/-
B) <u>Enrichment Plantation</u>		
i) Raising & Maint. Of Enrichment Plantation over 0.65 Ha degraded forest area ($1\frac{1}{2}$ times safety zone area (0.42) including further maintenance)		Rs.195900/-
		Rs.36200/-
C) Overheads		
	Total :	Rs. 272000/-


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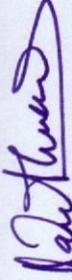

 Divisional Forest Officer,
 Chittoor East (WL) Division, Chittoor.
 2/16/24

SAFETY ZONE AFFORESTATION SCHEME FOR M/s. SAI SONU GRANITES, KUPPAM IN CHITTOOR EAST (WL) DIVISION
ABSTRACT CUM YEAR WISE ACTION PLAN

Sl No	Name of the work	Units	2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		Total		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
1	2	3			6	7	6	7	8	9	10	11	12	13			18	19	
III	Regeneration - Safety Zone area																0.42	0.399	
2	Regeneration of works in the safety zone area of 0.42 ha	0.95	-	-	0.42	0.399													
III	Afforestation in lieu of Safety zone area (Enrichment plantation)																		
1	Raising of Misc. species	Nos	0.01	0.085	0.003	0.02805											0.013	0.113	
2	Maintenance of Nursery				0.01	0.061	0.003	0.020									0.013	0.080	
3	Preliminary/Advance operations	Ha	0.65	0.279													AOs	0.279	
4	Raising/Treatment of Plantations	Ha			0.650	0.53325											0.65	0.533	
5	1st year Maintenance	Ha					0.650	0.299									Maint.	0.299	
6	2nd year Maintenance	Ha							0.650	0.246							Maint.	0.246	
7	3rd year Maintenance	Ha									0.650	0.132					Maint.	0.132	
8	4th year Maintenance	Ha											0.650	0.132			Maint.	0.132	
9	5th year Maintenance	Ha													0.65	0.145	Maint.	0.145	
11	Over heads	LS		0.056		0.079	0.061		0.054	0.038					0.038	0.035	LS	0.362	
	TOTAL :			0.420	0.65 ha	1.100	0.380		0.300	0.170			0.170		0.160	0.65 Ha	2.720		


 Forest Range Officer
 Chittoor East

COUNTER SIGNED



Divisional Forest Officer
 A East (WL) Division, Chittoor
 24/6

S.Z. AFFORESTATION SCHEME IN CHITTOOR EAST (WL) DIVISION

Sl. No.	Model/Component	Unit	Basic cost as per FSR 2021-22	Rates applicable (adding 10% Escalation for every year)						
				2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
1	2	3	4	5	6	7	8	9	10	11
I	Nursery cost									
a	Raising 6x12 Bag plants	per plant	8.50	9.35	10.29	11.31	12.44	13.69	15.06	16.56
b	Maintenance 6x12 Bag plants	per plant	5.00	5.50	6.05	6.66	7.32	8.05	8.86	9.74
b	Regeneration of works in the safety zone area of	90000								
II	Plantations									
A	Under SMM method									
i	Advance Operation	Ha	39000	42900	47190	51908	57099	62809	69090	75999
ii	Raising / Creation	Ha	67800	74580	82038	90242	99266	109193	120112	132123
iii	1st Year Maintenance	Ha	34600	38060	41866	46052	50658	55723	61296	67425
iv	2nd Year Maintenance	Ha	25800	28381	31219	34340	37774	41552	45707	50278
v	3rd Year Maintenance	Ha	12600	13860	15246	16771	18448	20293	22322	24554
vi	4th Year Maintenance	Ha	12600	13860	15246	16771	18448	20293	22322	24554
vii	5th Year Maintenance	Ha	12600	13860	15246	16771	18448	20293	22322	24554

DATA FOR SAFETY ZONE AFFORESTATION PLANTATION (MISC. SPECIES - ADVANCE OPERATIONS AND RAISING) UNDER SEMI-MECHANICAL METHOD

(DATA PER HA)

Sl No	Description of work	FSR Item	Quantity		Rate	Per		Amount (Rs.)
1	2	3	4		5	6	7	
I ADVANCE OPERATIONS:								
1	Survey with GPS	02.01.001			245.16		plantati on	245
2	Site preparation							
	ii) Light Jungle growth	02.01.004	1	ha	6761.48	1	ha	6761
3	Uprootal of stumps to a depth of 45 cm (excluding unsuitable patches) with heavy machinery fitted with 0.90 cum and above capacity bucket, filing the pits caused by uprootal and leveling Medium Jungle Growth	02.01.009	1	ha	19657.85	1	ha	19658
4	Collection and removal of uprooted stumps of all sizes, other debris etc., to outside the plantation site Medium Jungle growth	02.01.013	1	ha	11325.10	1	ha	11325
5	Formation of sector lines/ inspection paths to a width of 3 M by giving surface treatment(sector to be in conformity with slope direction).	02.01.006	100	Rmt	7.16	1	Rmt	716
6	Contingencies and other charges							294
TOTAL								39000
II RAISING								
1	Deep ploughing the area to a depth of 30 cms with a heavy duty tractor of 45 HP and above with mould board plough (Inspection paths not to be ploughed). In Hard gravelly soils	02.01.023	1	ha	6603.08	1	ha	6603
2	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	02.01.024	1	ha	1233.50	1	ha	1234
3	Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	02.02.003	1111	Nos	98.34	100	Nos	1093
4	Digging of pits in Loamy soils like red earth, black cotton soils of size	Spl. Anx. 4 Cat.-II (b,c,d)						
	Pit of 0.45x0.45x0.45 Mts	02.02.009	1111	Nos	16.32	1	Nos	18132
5	Cost of Fertilizers and pesticides	02.02.029	LS					
	Super Phosphate @ 30gm per plant		33.33	Kgs	As per actuals	10	kg	333
	LINDEN @ 15gm per plant		22.22	Kgs	As per actuals	20	kg	444
6	Application of Fertilizers and pesticides	02.02.030	1111	Nos	46.20	100	Nos	513
7	Transportation of seedlings to a distance of 30 KM of tall plants	02.02.017 & 022	1111	Nos	315.77	100	Nos	3508

Sl No	Description of work	FSR Item	Quantity		Rate	Per		Amount (Rs.)
1	2	3	4		5	6		7
8	Internal transport	0.02.027	1111	Nos	107.93	100	Nos	1199
9	Planting with ball of earth, fixing the plant by refilling with dugout soil.	02.02.032	1111	Nos	514.13	100	Nos	5712
10	1st Circular Weeding to a radius of 0.5 m. around the plant	02-02-038	1111	Nos	146.90	100	Nos	1632
11	2nd Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer	02-02-039	1111	Nos	771.20	100	Nos	8568
12	Weeding by Inter Ploughing with MB Plough/ Disc plough to a depth of 30 Cm - Hard gravelly soils (untilled areas)	02.02.044	1	ha	4401.40	1	ha	4401
13	Fire Tracing operations to a width of 3M around the plot, sector lines and inspection paths	02.02.048	300	Mts	7.16	1	Mts	2148
14	Watch & ward for 9 months (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	6600.00	1	Nos	6600
	Replancement of caussalities							
18	Re-opening of Pits	Spl. Condition no.10	223	Nos	14.40	1	Nos	3211
19	Transportation of seedlings to a distance of 30 KM of tall plants		223	Nos	315.77	100	Nos	704
20	Internal transport		223	Nos	107.93	100	Nos	241
21	Planting with ball of earth, fixing the plant by refilling with dugout soil.		223	Nos	514.13	100	Nos	1147
22	Contengencies							377
							TOTAL	67800

III 1st YEAR MAINTENANCE								
1	Re-opening of Pits	Spl. Condition no.10	278	Nos	16.32	1	cum	4537
2	Transportation of seedlings to a distance of 30 KM of tall plants		278	Nos	315.77	100	Nos	878
3	Internal transport		278	Nos	107.93	100	Nos	300
4	Planting with ball of earth, fixing the plant by refilling with dugout soil.		278	Nos	514.13	100	Nos	1429
5	Cost of Fertilizers		55.55	ha	20.00	1	kg	1111
6	Application of fertilizers and pesticides		1111	Nos	46.20	100	Nos	513
7	1st Circular Weeding to a radius of 0.5 m. around the plant	02-02-038	1111	Nos	146.90	100	Nos	1632

Sl No	Description of work	FSR Item	Quantity		Rate	Per		Amount (Rs.)
1	2	3	4		5	6		7
8	2nd Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer	02-02-039	1111	Nos	771.20	100	Nos	8568
9	Weeding by Inter Ploughing with MB Plough/ Disc plough to a depth of 30 Cm - Hard gravelly soils (untilled areas)	02.02.044	1	ha	4401.40	1	ha	4401
10	Fire tracing operations (maintenance)	02.01.22	300	Mts	7.16	1	M	2148
11	Watch & ward (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	8800.00	1	Nos	8800
12	Contingencies and other Charges							282
TOTAL								34600

IV 2nd YEAR MAINTENANCE

1	1st Circular Weeding to a radius of 0.5 m. around the plant	02-02-038	1111	Nos	146.90	100	Nos	1632
2	2nd Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer	02-02-039	1111	Nos	771.20	100	Nos	8568
3	Weeding by Inter Ploughing with MB Plough/ Disc plough to a depth of 30 Cm - Hard gravelly soils (untilled areas)	02.02.044	1	ha	4401.40	1	ha	4401
4	Fire tracing operations (maintenance)	02.01.22	300	Mts	7.16	1	M	2148
5	Watch & ward (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	8800.00	1	Nos	8800
6	Contingencies and other Charges							251
TOTAL								25800

V 3rd Year Maintenance

1	1st Circular Weeding to a radius of 0.5 m. around the plant	02-02-038	1111	Nos	146.90	100	Nos	1632
2	2nd Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer	02-02-039	1111	Nos	771.20	100	Nos	8568

195

Sl No	Description of work	FSR Item	Quantity		Rate	Per		Amount (Rs.)
1	2	3	4		5	6		7
3	Fire tracing operations (maintenance)	02.01.22	300	Mts	7.16	1	M	2148
4	Contingencies and other Charges							252
TOTAL								12600

ABSTRAT (PER ha)								
	Advance Opeations							39000
	Raising							67800
	1st Year Maintenance							34600
	2nd Year Maintenance							25800
	3rd Year Maintenance							12600
TOTAL								179800


Forest Range Officer,
Chittoor East