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**SCHEME FOR FENCING, PROTECTION AND REGENERATION AND RAISING
AND MAINTENANCE OF ENRICHMENT PLANTATION IN LIEU OF SAFETY
ZONE AREA OF 0.86 Ha OF M/s. ANIL GRANITES, GUNTUR.**



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 0.570 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 3.20 Ha of M/s. Anil Granites, Guntur in Chittapara RF.

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, is furnished herewith.


For Raising of Enrichment Plantation over 1½ times of safety zone area, in lieu of the safety zone area of 0.57 Ha an extent of 0.86 Ha is proposed is degraded forest area of Chittoor West Division.

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. 55000/-
B)	<u>Enrichment Plantation</u>	
i)	Raising & Maint. Of Enrichment Plantation over 0.86 Ha degraded forest area (1½ times safety zone area (0.57) including further maintenance)	Rs.240400/-
C)	Overheads	Rs.31600/-
	Total :	Rs. 327000/-


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**SAFETY ZONE AFFORESTATION SCHEME FOR M/s. ANIL GRANITES, GUNTUR IN CHITTOOR WEST 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																		
2	Regeneration of works in the safety zone area of 0.57 ha	95000			0.57	0.550											0.57		0.55
III	Afforestation in lieu of Safety zone area (Enrichment plantation)																		
1	Raising of Misc. species	Nos	0.015	0.12	0.005	0.044													
2	Maintenance of Nursery				0.015	0.091	0.005	0.033									0.015		0.164
3	Preliminary/Advance operations	Ha	0.86	0.344												0.015		0.124	
4	Raising/Treatment of Plantations	Ha			0.86	0.63154										AOs		0.344	
5	1st year Maintenance	Ha					0.86	0.350								0.86		0.632	
6	2nd year Maintenance	Ha							0.86	0.283						Maint.		0.350	
7	3rd year Maintenance	Ha									0.86	0.163				Maint.		0.283	
8	4th year Maintenance	Ha											0.86	0.163		Maint.		0.163	
9	5th year Maintenance	Ha													0.86	Maint.		0.180	
11	Over heads	LS		0.026		0.064		0.056		0.037		0.047		0.047		LS		0.316	
	TOTAL :			0.490	0.36 ha	1.380		0.440		0.320		0.210		0.210		1.62 Ha		3.270	

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Chittoor West

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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			228.56		plantati on	229
2	Site preparation							
	ii) Light Jungle growth	02.01.004	1	ha	6303.82	1	ha	6304
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	18327.29	1	ha	18327
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	10558.55	1	ha	10559
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	6.68	1	Rmt	668
6	Contingencies and other charges							314
							TOTAL	36400
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	6156.14	1	ha	6156
2	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	02.01.024	1	ha	1150.01	1	ha	1150
3	Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	02.02.003	1111	Nos	91.68	100	Nos	1019
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	14.4	1	Nos	15998
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	43.07	100	Nos	479
7	Transportation of seedlings to a distance of 30 KM of tall plants	02.02.017 & 022	1111	Nos	294.38	100	Nos	3271

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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	100.62	100	Nos	1118
9	Planting with ball of earth, fixing the plant by refilling with dugout soil.	02.02.032	1111	Nos	479.33	100	Nos	5325
10	1st Circular Weeding to a radius of 0.5 m. around the plant	02-02-038	1111	Nos	136.95	100	Nos	1522
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	719.00	100	Nos	7988
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	4103.48	1	ha	4103
13	Fire Tracing operations to a width of 3M around the plot, sector lines and inspection paths	02.02.048	300	Mts	6.68	1	Mts	2004
14	Watch & ward for 9 months (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	4400.00	1	Nos	4400
	<u>Replancement of caussalities</u>							
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	294.38	100	Nos	657
20	Internal transport		223	Nos	100.62	100	Nos	224
21	Planting with ball of earth, fixing the plant by refilling with dugout soil.		223	Nos	479.33	100	Nos	1069
22	Contengencies							219
							TOTAL	60690

III 1st YEAR MAINTENANCE								
1	Re-opening of Pits	Spl. Condition no.10	278	Nos	14.40	1	cum	4003
2	Transportation of seedlings to a distance of 30 KM of tall plants		278	Nos	294.38	100	Nos	818
3	Internal transport		278	Nos	100.62	100	Nos	280
4	Planting with ball of earth, fixing the plant by refilling with dugout soil.		278	Nos	479.33	100	Nos	1333
5	Cost of Fertilizers		55.55	ha	20.00	1	kg	1111
6	Application of fertilizers and pesticides		1111	Nos	43.07	100	Nos	479
7	1st Circular Weeding to a radius of 0.5 m. around the plant	02-02-038	1111	Nos	136.95	100	Nos	1522

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	719.00	100	Nos	7988
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	4103.48	1	ha	4103
10	Fire tracing operations (maintenance)	02.01.22	300	Mts	6.68	1	M	2004
11	Watch & ward (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	6600.00	1	Nos	6600
12	Contingencies and other Charges							360
TOTAL								30600
IV 2nd YEAR MAINTENANCE								
1	1st Circular Weeding to a radius of 0.5 m. around the plant	02-02-038	1111	Nos	136.95	100	Nos	1522
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	719.00	100	Nos	7988
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	4103.48	1	ha	4103
4	Fire tracing operations (maintenance)	02.01.22	300	Mts	6.68	1	M	2004
5	Watch & ward (as per Collector Wage rate)	24 (ii) (b) (i)	1	No	6600.00	1	Nos	6600
6	Contingencies and other Charges							283
TOTAL								22500
V 3rd Year Maintenance								
1	1st Circular Weeding to a radius of 0.5 m. around the plant	02-02-038	1111	Nos	136.95	100	Nos	1522
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	719.00	100	Nos	7988

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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	6.68	1	M	2004
4	Contingencies and other Charges							286
TOTAL								11800

ABSTRAT (PER ha)								
	Advance Opeations						36400	
	Raising						60690	
	1st Year Maintenance						30600	
	2nd Year Maintenance						22500	
	3rd Year Maintenance						11800	
TOTAL								161990


Forest Range Officer,
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S.Z. AFFORESTATION SCHEME IN CHITTOOR WEST DIVISION

Sl. No.	Model/Component	Unit	Basic cost as per FSR 2020-21	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	8.00	8.80	9.68	10.65	11.71	12.88	14.17	15.59					
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	36400	40040	44044	48449	53294	58623	64485	70934					
ii	Raising / Creation	Ha	60690	66759	73435	80779	88857	97742	107517	118268					
iii	1st Year Maintenance	Ha	30600	33660	37026	40729	44802	49282	54210	59631					
iv	2nd Year Maintenance	Ha	22500	24750	27225	29948	32942	36237	39860	43846					
v	3rd Year Maintenance	Ha	11800	12980	14278	15705	17276	19003	20904	22994					
vi	4th Year Maintenance	Ha	11800	12980	14278	15705	17276	19003	20904	22994					
vii	5th Year Maintenance	Ha	11800	12980	14278	15705	17276	19003	20904	22994					


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