

Annexure-I

Statement showing the Plantation of dwarf species (Preferable medicinal plants) in right of way under the transmission lines proposed to an extent of 5.63 Ha. (Total length of conductors 2815 RMT x 2 nos of Conductors x 10 Mts width) proposed under Chapter-5.4 (b) Transmission line proposals; in lieu of diversion of Forest land for laying of 765 KV DC Warangal - Chilakaluripeta Transmission Line implemented by Warora-Kurnool Transmission line

Sl. No.	Name of the Circle	Name of the Division	Total Area proposed for Afforestation (Ha.)	ANR (Medicinal)	LIM / Pit/Crow bar				SMM (Ha.)				Casurina Plantation	Total (area in Ha.)	Remarks
					NTSH (Mix of Narepi, Yegesa, Rosewood, S.owk etc.)	Teak	RS	NTSH (Mix of Narepi, Yegesa, Rose wood, S.Owk etc.)	Bamboo Plantation	Red Sanders					
1	Guntur	Guntur	5.63	5.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.63	An extent of 5.63 Ha (Total length of conductor 2815 RMT x 2 nos x 10 Mts width below the conductor)
		Total:	5.63	5.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.63	

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Statement showing the Plantation of dwarf species (Preferable medicinal plants) in right of way under the transmission lines proposed to an extent of 5.63 Ha. (Total length of conductors 2815 RMT x 2 nos of Conductors x 10 Mts width) proposed under Chapter-5.4 (b) Transmission line proposals; in lieu of diversion of Forest land for laying of 765 KV DC Warangal - Chilakaluripeta Transmission Line implemented by Warora- Kurnool Transmission line

Sl. No	Name of the work	Unit cost		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		(Rs.in Lakhs)	
		Per	Rate	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Amount	Fin
I	Plantations (SMM Method)																										
1	Raising of plantations (SMM) (Including cost of Plants)	1 Ha	139235.80	5.63	7.839																						7.839
2	1st year maintenance	1 Ha	64536.57			5.63	3.633																				3.633
3	2nd year maintenance	1 Ha	48013.00					5.63	2.703																		2.703
4	3rd year maintenance	1 Ha	52814.00							5.63	2.973																2.973
5	4th year maintenance	1 Ha	13680.00									5.63	0.770														0.770
6	5th year maintenance	1 Ha	7761.00											5.63	0.437												0.437
7	6th year maintenance	1 Ha	8537.00													5.63	0.48										0.481
8	7th year maintenance	1 Ha	9391.00															5.63	0.529								0.529
9	8th year maintenance	1 Ha	10330.00																	5.63	0.582						0.582
10	9th year maintenance	1 Ha	11363.00																			5.63	0.640				0.640
11	10th year maintenance	1 Ha	12499.00																					5.63	0.704		0.704
	Sub-Total>				7.839		3.633		2.703		2.973		0.770		0.437		0.481		0.529		0.582		0.640		0.704		21.290
II	SMC works																										
1	SMC Works (15%of the total planting Cost)	Ls	319356.43		0.188		0.290		0.290		0.290		0.290		0.290		0.290		0.290		0.290		0.290		0.290		3.091
	Sub-Total>				0.19		0.29		0.29		0.29		0.29		0.29		0.29		0.29		0.29		0.29		0.29		3.091
III	Monitoring and Evaluation 5% of the total planting Cost	Ls	46368.60		0.028		0.042		0.042		0.042		0.042		0.042		0.042		0.042		0.042		0.042		0.042		0.450
	Sub-Total>				0.03		0.04		0.04		0.04		0.04		0.04		0.04		0.04		0.04		0.04		0.04		0.450
IV	Administrative Cost @ 10% of the total planting Cost)	Ls	216904.00		0.197		0.197		0.197		0.197		0.197		0.197		0.197		0.197		0.197		0.197		0.197		2.169
	Sub-Total>				0.197		0.197		0.197		0.197		0.197		0.197		0.197		0.197		0.197		0.197		0.197		2.169
	Grand Total>>				8.252		4.163		3.233		3.503		1.300		0.967		1.010		1.058		1.111		1.169		1.233		27.000

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Sl. No.	Name of the work	Quantity in Ha/ Rmt	Unit Cost	Amount (in Lakhs)	Remarks
I	Plantations (ANR- Medicinal plantation)				
1	Raising of plantations	5.63	139235.80	7.839	
2	1st year maintenance	5.63	64536.57	3.633	
3	2nd year maintenance	5.63	48013.00	2.703	
4	3rd year maintenance	5.63	52814.00	2.973	
5	4th year maintenance	5.63	13680.00	0.770	
6	5th year maintenance	5.63	7761.00	0.437	
7	6th year maintenance	5.63	8537.00	0.481	
8	7th year maintenance	5.63	9391.00	0.529	
9	8th year maintenance	5.63	10330.00	0.582	
10	9th year maintenance	5.63	11363.00	0.640	
11	10th year maintenance	5.63	12499.00	0.704	
	Sub Total			21.290	
II	SMC Works (15%of the total planting Cost)	Ls	--	3.091	
	Sub Total			3.091	
III	Monitoring and Evaluation 5% of the total planting Cost	Ls	--	0.450	
IV	Administrative Cost @ 10% of the total planting Cost)	Ls	--	2.169	
	Grand Total:			27.000	


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**DAT FOR 1 HA FOR RAISING OF PLANTATIONS IN OTHER THEN SANDY SOILS
(As per FSR 2018-19) (ANR)**

Sl. No.	Qty.	Description of work with detailed specifications	FSR Code	Rate in Rs.	Per/ Unit	Amount
1	1	Very light Jungle growth(>10% and upto 20% ground area covered Jungle growth)	02-05-003	2800.21	Ha	2800.21
2	480	Cost of Medicinal plants	LS	125.00	Each	60000.00
		Alignment & Staking				
3	400	Alignment and staking including laying base line for Misc speacies with espacement 3mX3m (1111 Nos)	02-06-003	81.60	100 Nos	326.40
4	400	Cost of 0.45M Stake preparation and transportation to site.	02-06-005	53.13	100 Nos	212.52
		Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading upto 5 Km lead				
5	400	15X30cm (6"X12") bag plants	02-06-009	139.63	100 Nos	558.52
		Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading beyond 5 Km - extra for every each Km average lead 45 Km				
6	400	15 X 30cm (6"X12") bag plants- For 45 Kms x 4.9 = 220.50 /-	02-06-014	220.50	100 nos/ km	882.00
		Internal transport of bag plants/root trainers to planting points on head loads.				
7	400	15X30cm (6"X12") bag plants	02-06-019	89.57	100 Nos	358.28
		Digging of pits in HG Soils				
8	400	Digging of 45 cm. cube pits	02-06-025	20.31	Each	8124.00
	24.30	Cost of tank silt for filling the pits @ cmt per pit (0.45x0.45x0.30)=0.061 cmt/pit x 400 No's= 24.30 cmt/Ha.	01-03-003	438.40	cum	10653
		Application of Fertilizers				
9		Cost of Chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP after planting for 30 cm ³ & 45 cm ³ pits).	02-06-031		As per actuals	
	20.00	a) Cost of SSP @ 50 Grams/Pit - 20 Kgs/Ha		15.00	Kg	300.00
	8.00	b) Cost of DAP @ 20 Grams/Pit - 8 Kgs/Ha		30.00	Kg	240.00
10	400	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar, 10 cmts away from plant amd putting fertilizers and closing	02-06-032	38.32	100 Nos	153.28
		Planting bag plants				
11	400	45cmX45cmX45 cm pits	02-06-034	426.63	100 Nos	1706.52
12		Replacement of Casualties 20% during raising year	02-06-036			
	80	a) Reopening of pits (Rs.20.31/2 =10.15 each pit)		10.15	Each	812.00
	80	b) Transport of bag plants over 50 Km (upto 0- 5km=139.63+ beyond 5km and upto 6-50 km =220.50)		360.13	100 Nos	288.10
	80	c) Internal transport		89.57	100 Nos	71.66
	80	d) Planting		426.63	100 Nos	341.30
13	400	Provision for watering during planting as per PCCF Circular 6B/06G-1, (RC.No.17309/2000, F1, dt.16.08.2005) 3 waterings/month (from November to March)	02-06-054	2.47	Plant	14820.00
		Weeding & Soil working				
14	400	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 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-06-041	639.96	100 Nos	2559.84
15	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-06-049	5.96	Rmt	894.00
16	1 No./ 8 months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day.	02-06-053	306.00	Day	3182.00
17	200 RMT	Brush wood fencing around the Plantation: Thorny fencing with sturdy thorn material of 10 cm. girth (at the butt end) and fixing in crow bar holes and strengthening with stone packing. The avarage height of fence should be 1.5m and fenceing material should be fixed in 2 rows (staggered) at 30cm. apart. The fence should be tightened horizontally by tying with thorny reepers on both sides. With specific permission of DFO.	05-03-001	28.94	Rmt	5788.00
18		Contingencies for enumeration of survivals, fixing 10th line stones, cost of numbering with paint/ white washing, sector stones, plantation boards, journals etc.	02-06-056	As per actuals subject to maximum of 10% of estimate cost during raising year		11506.25
		Total cost				126578.00

Unit cost for 2018-19
Add 10% for 2019-20

126578.00
139235.80 Ha

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Chankabala
Forest Range Officer
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DAT FOR 1 HA FOR RAISING OF PLANTATIONS IN OTHER THEN SANDY SOILS
(As per FSR 2018-19) (ANR)

Sl. No.	Qty.	Description of work with detailed specifications	FSR Code	Rate in Rs.	Per/ Unit	Amount
1	1	Very light Jungle growth(>10% and upto 20% ground area covered Jungle growth)	02-05-003	2800.21	Ha	2800.21
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		Alignment & Staking				
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4	400	Cost of 0.45M Stake preparation and transportation to site.	02-06-005	53.13	100 Nos	212.52
		Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading upto 5 Km lead				
5	400	15X30cm (6"X12") bag plants	02-06-009	139.63	100 Nos	558.52
		Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading beyond 5 Km - extra for every each Km average lead 45 Km				
6	400	15 X 30cm (6"X12") bag plants- For 45 Kms x 4.9 = 220.50 /-	02-06-014	220.50	100 nos/ km	882.00
		Internal transport of bag plants/root trainers to planting points on head loads.				
7	400	15X30cm (6"X12") bag plants	02-06-019	89.57	100 Nos	358.28
		Digging of pits in HG Soils				
8	400	Digging of 45 cm. cube pits	02-06-025	20.31	Each	8124.00
	24.30	Cost of tank silt for filling the pits @ cmt per pit (0.45x0.45x0.30)=0.061 cmt/pit x 400 No's= 24.30 cmt/Ha.	01-03-003	438.40	cum	10653
		Application of Fertilizers				
9		Cost of Chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP after planting for 30 cm ³ & 45 cm ³ pits).	02-06-031		As per actuals	
	20.00	a) Cost of SSP @ 50 Grams/Pit - 20 Kgs/Ha		15.00	Kg	300.00
	8.00	b) Cost of DAP @ 20 Grams/Pit - 8 Kgs/Ha		30.00	Kg	240.00
10	400	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar . 10 cmts away from plant amd putting fertilizers and closing	02-06-032	38.32	100 Nos	153.28
		Planting bag plants				
11	400	45cmX45cmX45 cm pits	02-06-034	426.63	100 Nos	1706.52
12		Replacement of Casualties 20% during raising year	02-06-036			
	80	a) Reopening of pits (Rs.20.31/2 =10.15 each pit)		10.15	Each	812.00
	80	b) Transport of bag plants over 50 Km (upto 0- 5km=139.63+ beyond 5km and upto 6-50 km =220.50)		360.13	100 Nos	288.10
	80	c) Internal transport		89.57	100 Nos	71.66
	80	d) Planting		426.63	100 Nos	341.30
13	400	Provision for watering during planting as per PCCF Circular 6B/06G-1, (RC.No.17309/2000, F1, dt.16.08.2005) 3 waterings/month (from November to March)	02-06-054	2.47	Plant	14820.00
		Weeding & Soil working				
14	400	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 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-06-041	639.96	100 Nos	2559.84
15	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-06-049	5.96	Rmt	894.00
16	1 No./ 8 months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day.	02-06-053	306.00	Day	3182.00
17	200 RMT	Brush wood fencing around the Plantation: Thorny fencing with sturdy thorn material of 10 cm. girth (at the butt end) and fixing in crow bar holes and strengthening with stone packing. The avarage height of fence should be 1.5m and fenceing material should be fixed in 2 rows (staggered) at 30cm. apart. The fence should be tightened horizontally by tying with thorny reepers on both sides. With specific permission of DFO.	05-03-001	28.94	Rmt	5788.00
18		Contingencies for enumeration of survivals, fixing 10th line stones, cost of numbering with paint/ white washing, sector stones, plantation boards, journals etc.	02-06-056	As per actuals subject to maximum of 10% of estimate cost during raising year		11506.25
		Total cost				126578.00

Unit cost for 2018-19
Add 10% for 2019-20

126578.00
139235.80 Ha

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Data Estimate for 2nd year maintenance of 1.0 Ha. ANR (Medicinal Plantation) (FSR 2018-19)

Sl.No	Qty	Details of work	FSR Item No.	Per	Unit	Rate
(1)	(2)	(3)	(4)	(5)		(6)
		2nd YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS/SEMI MECHANICAL METHOD:	02-08 :			
1	400	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 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-08-004	639.96	100 Nos	2559.84
2	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-08-012	5.96	Rmt	894.00
3	1 No./ 12 months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day	02-08-014	306.00	Day	4773.60
4	400	Provision for watering during planting as per PCCF Circular 6B/06G-1, (RC.No.17309/2000, F1, dt.16.08.2005) 3 waterings/month (from April to June and Nov to March)	02-06-054	2.47	Plant	23712.00
5	400	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-08-015	121.13	100 Nos	484.52
6	200 RMT	Maint. of Brush wood fencing around the Medicinal plantation	05-03-002	9.66	Rmt	1932.00
7		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-08-016	As per actuals subject to maximum of 5% of estimate cost during maint. year		1717.04
Total Cost						36073.00

Unit Cost for 2018-19 36073.00
 Add 10% for 2019-20 39680.30
 Add 10% for 2020-21 43648.33
 Add 10% for 2021-22 **48013.00** **Ha**


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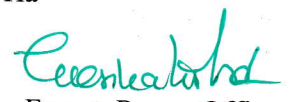
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Data Estimate for 3rd year maintenance of 1.0 Ha. Degraded CA Area (FSR 2017-18)

Sl. No	Qty	Details of work	FSR Item No.	Per	Unit	Rate
	(1)	(2)	(3)	(4)		(5)
1	400	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 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils. .	02-09-002	639.96	100 Nos	2559.84
2	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-09-008	5.96	Rmt	894.00
3	1 No./ 12 Months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day	02.09.009	306.00	Day	4773.60
4	400	Provision for watering during planting as per PCCF Circular 6B/06G-1, (RC.No.17309/2000, F1, dt.16.08.2005) 3 waterings/month (from April to June and Nov to March)	02-06-054	2.47	Plant	23712.00
5	400	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-09-010	121.13	100 Nos	484.52
6	200 RMT	Maint. of Brush wood fencing around the Medicinal plantation	05-03-002	9.66	Rmt	1932.00
7		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-09-012	As per actuals subject to maximum of 5% of estimate cost during maint. year		1717.04
		Total Cost				36073.00

Unit cost for 2018-19 36073.00
Add 10% for 2019-20 39680.30
Add 10% for 2020-21 43648.00
Add 10% for 2021-22 48013.00
Add 10% for 2022-23 **52814.00** Ha


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Data Estimate for 4th year Year Maintenance of 1.0 Ha. ANR (Medicinal Plantation) (FSR 2018-19)

Sl. No	Qty	Details of work	FSR Item No.	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	
		4th YEAR YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:				
1	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-10-001	5.96	Rmt	894.00
2	1 No./ 12 Months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day	02-07-017	306.00	Day	4773.60
3	400	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-10-003	121.13	100 Nos	484.52
4	200 RMT	Maint. of Brush wood fencing around the Medicinal plantation	05-03-002	9.66	Rmt	1932.00
5		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-10-004	As per actuals subject to maximum of 5% of estimate cost during maint. year		409.88
		Total Cost				8494.00

Unit cost for 2018-19	8494.00	Ha
Add 10% for 2019-20	9343.00	Ha
Add 10% for 2020-21	10277.00	Ha
Add 10% for 2021-22	11305.00	Ha
Add 10% for 2022-23	12436.00	Ha
Add 10% for 2023-24	13680.00	Ha

4th year


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**Data Estimate for 5th year to 10 th Year Maintenance of 1.0 Ha. ANR(Medicinal Plantation)
(FSR 2018-19)**

Sl. No	Qty	Details of work	FSR Item No.	Rate	Per	Amount
	(1)	(2)	(3)	(4)	(5)	(6)
		5th YEAR to 10 Th YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:				
1	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-11-001	5.96	Rmt	894.00
2	1111	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-11-002	121.13	100 Nos	1345.75
3	200 RMT	Maint. of Brush wood fencing around the Medicinal plantation	05-03-002	9.66	Rmt	1932.00
4		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-11-003	As per actuals subject to maximum of 5% of estimate cost during maint. year		209.25
		Total Cost				4381.00

Unit cost for 2018-19	4381.00	Ha	
Add 10% for 2019-20	4819.00	Ha	
Add 10% for 2020-21	5301.00	Ha	
Add 10% for 2021-22	5831.00	Ha	
Add 10% for 2022-23	6414.00	Ha	
Add 10% for 2023-24	7055.00	Ha	
Add 10% for 2024-25	7761.00	Ha	5th year
Add 10% for 2025-26	8537.00	Ha	6th year
Add 10% for 2026-27	9391.00	Ha	7th year
Add 10% for 2027-28	10330.00	Ha	8th year
Add 10% for 2028-29	11363.00	Ha	9th year
Add 10% for 2029-30	12499.00	Ha	10th year


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