

Full title of the Project: *Ex-post Facto* Approval for diversion of Forest Land for Construction of Warehouse Building and Ancillary Structures under RKVY Scheme 2017-18.

File No.: FP/MH/Others/44963/2020

Date of Proposal: 06/03/2020

SCHEME FOR COMPENSATORY AFFORESTATION

1. Description of Area

- a. Whether the site selected for Compensatory Afforestation is a land bank or not : No
- b. If the CA site is other than the land bank, reasons be given: It is convenient for plantation and further maintenance

The proposed CA site is under administrative control of Pune Forest Division.

- c. In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Not Applicable
- d. Soil Type: Medium Drained.
- e. Topography: plain.
- f. Whether the area is bearing any root stock of vegetation: No

2. Plantation Model:

Model Rate Structure: Model No.5; Mixed Tree Species having rainfall less than 800 mm.
Fencing and Irrigated Plantation

Spacing: 3.00 m. X 3.00 m.

Size of Pit: 0.45 m. X 0.45 m. X 0.45 m.

No. of Seedlings per Ha.: 1111 nos.

Proposed Area: 2.00 Ha.

3. Schedule of Plantation Programme:-

Nursery work to be initiated immediately after receipt of funds from the User Agency. Advance works to be initiated by December of the same year. The plantation will be taken up in the ensuing monsoon.

4. Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- a. General Details: Block plantation of Mixed Species, with irrigation and fencing.
- b. Spacing: 3.00 m. X 3.00 m.
- c. Species: Neem, tamarind, Shisam, Karanj, Aasan, Harada, Behda, Arjun and like species
- d. Plantation Method: Planting of nursery raised seedlings in pre-dug pits of size 0.45 m. X 0.45 m. X 0.45 m. at the spacing of 3 m. X 3 m.
- e. Soil and Moisture Conservation Works: As provided in estimate.
- f. Protection (Fencing, Watch man, People's Participation etc.): As provided in estimates.
- g. Proposed Monitoring Mechanism: Regular territorial unit having jurisdiction over the land will be responsible for execution & monitoring the planting activities and after care.
- h. Any other information: NIL.

Date: 09/08/2021

Place: Pune

Official Seal:

RAHUL PATIL, IFS
Dy. Conservator of Forests
Pune Forest Division
Pune

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MODEL RATE STRUCTURE FOR COMPENSATORY AFFORESTATION

MODEL NO. 5 FENCING AND IRRIGATED PLANTATION

Model Rate Structure

For planting of Mixed Tree Species having rainfall less than 800 mm. and medium quality, medium drained soil

At Degraded Forest Land (RF) of Baramati Forest Range of Pune Forest Division: Suy./ Gut No. 792 of Village Shirsuphal of Tehsil Baramati of Pune District, Maharashtra State

Spacing: 3 m. X 3 m.

Pit Size: 0.45 m. X 0.45 m. X 0.45 m.

No. of Seedlings: 1111 Nos. per Ha.

Wage Rate: For Zone II, Unskilled Class of employment: Rs. 404.50 (As per Maharashtra Minimum Wages VDA Notification 01/01/2021, Rates applicable from 01/01/2021)

(Amount in Rs.)						
Sr. No.	Particulars of Works	Mandays	Wages	Material Supply	Total Rs. Per Ha.	Total Amount for 2.00 Ha.
B. PRE-MONSOON WORKS PPO/ PYO						
1	e. Survey & Demarcation	01.00	404.50	91.00	495.50	991.00
	f. Preparation of Treatment Map (100 m. x 50 m. grid)	01.00	404.50	91.00	495.50	991.00
	g. Digging trial pit of size 0.30 m. x 0.30 m. x 0.60 m. in corner of grid	0.40	161.8	0.00	161.80	323.6
	h. Fixing of .60 cm. x 0.05 cm. x 12 cm. cement pillars up to 30 cm. deep in the corner of grid, painting with grid no. etc., complete. (3 pillars @ Rs. 75/- per pillar)	0.00	0.00	225.00	225.00	450.00
	i. Clearing of bushes and preparation of site (As per	10.00	4045.00	91.00	4136.00	8272.00

	requirement)					
2	Soil and moisture conservation work, including collection of rubble from areas of 30 m. etc.	31.00	12539.50	0.00	12539.00	25078.00
3	Providing and fixing Chain Link Fencing 102 Rmt. Per Ha. (With one gate + two Wicket Gate for one site (Rs. 1494 per Rmt of basic rate+ 20% for transportation of average lead + 20% for tribal/ remote area (by tender process). (Rs. 1494+149+149=1792 per Rmt (1.6 m. height with GI Chain Link Size 50mm. x 50 m., 8 gauge thick and fixed 75 mm above ground level complete as per SSR Item No. 1744 for 2017-18)	0.00	0.00	182865.60	182865.00	365730.00
4	Alignment of pits 3 x 3 m. spacing 1111 pits per Ha.(0.25 per 100 pits and M & S @Rs 2.24 per 50 pits	2.78	1124.51	49.77	1174.28	2348.56
5	Digging of pits of size 0.45 x 0.45 m. x 0.45 m.(1111 pits per Ha.) 6.60 MD per 100 pits. As per local conditions, provision for mechanized digging can be made.	73.33	29661.99	0.00	29661.99	59323.98
6	Construction of 5.00 Rmt wide inspection path 1 MD per 100 Rmt	1.00	404.50	0.00	404.50	809.00
7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing colour band and recording the same in register (0.75 MD) per 100 plants	0.75	303.37	25.00	328.37	656.74
8	Providing and fixing information board (4ft. x 3 ft.) each per site	0.00	0.00	5000.00	5000.00	10000.00
9	Part nursery cost of raising 1333 seedlings per Ha. (including 20% casualty replacement) in polygons of size 12.50 cm X 25 cm.(Wages Rs. 11.90 and M & S Rs. 3.62 per plant	46.71	18894.19	4825.46	23719.65	47439.3
Total		167.97	67943.86	193263.83	261207.69	522415.38
Contingency 3%		--	--	--	7836.23	15672.46
Labour Welfare 4%		--	--	--	10448.30	20896.00
Grand Total		167.97	67943.86	193263.83	279492.22	558984.44
C. FIRST YEAR OPERATIONS						
1	Part nursery cost for maintenance of 1333 seedlings per Ha. Rs. 3.77 per seedling (Wages Rs. 2.69 M & S Rs. 0.81)	14.80	5986.6	1079.73	7066.33	14132.66
2	Refilling of pits by good quality soil including application of Single Super Phosphate (1.66 MD per 100 pits)	18.44	7458.98	1944.25	9403.23	18806.46
3	Transportation of 1333 seedlings from nursery to plantation site including loading and unloading (0.14 MD for 100 seedling and MS Rs. 1.82 per seedling)	1.87	756.41	2426.00	3182.41	6364.82
4	Planting of 1111 seedlings (1 MD per 100 seedlings)	11.11	4493.99	0.00	4493.99	8987.98
5	3 seedlings (1 Rmt circular and 2 soil workings (4 MD for 100 seedlings) Fertilizer application Rs. 0.82 per seedlings	44.44	17975.98	911.02	18887.00	37774.00
6	Watering 1111 seedlings November and December 1 time each, January to March 2 time each per seedling 5 lit. of water, purchase of 1111 plastic cane of 5 lit. / matka @ Rs. 25 each and 100 li. Capacity 11 drums @ Rs. 400 each for supplying water and water supply @ Rs. 0.50 per lit. and wages for watering @ 1 MD per 150 seedlings	59.25	23966.62	54395.00	78361.62	156723.24
7	Casualty replacement (20% of 222	4.44	1795.98	0.00	1795.98	3591.96

	seedlings per Ha.) (2 MD per 100 seedlings)					
8	Part nursery cost for casualty replacement in SYO (222 seedlings per Ha.) (Wages Rs. 11.90 and material supply Rs. 3.62, Total Rs. 12.55 per Ha.)	7.77	3142.96	803.64	3946.6	7893.2
9	Watch and Ward (10 months- 1 watcher per 10 Ha.)	27.38	11075.21	0.00	11075.21	22150.42
10	Soil working for naturally grown plants and singling (1.15 MD for 100 plants)	1.15	465.17	10.00	475.17	950.34
11	Fire Tracing	2.00	809.00	0.00	809.00	1618.00
Total		192.65	77926.92	61569.64	139496.56	278993.12
Contingency 3%		--	--	--	4184.90	8369.8
Labour Welfare 4%		--	--	--	5579.86	11159.72
Grand Total		192.65	77926.92	61569.64	149261.32	298522.64

D. SECOND YEAR OPERATIONS

1	Part nursery cost for seedlings for casualty replacement (222 seedlings per Ha.) Labour @ Rs. 3.77 and M S Rs. 0.82 per seedling	2.46	995.07	404.00	1399.07	2798.14
2	Transportation of 222 seedlings for casualty replacement from nursery to plantation site including loading and unloading (0.14 MD for 100 seedling and MS Rs. 1.82 per seedling)	0.31	125.39	404.04	529.43	1058.86
3	Planting for casualty replacement 222 seedlings (2 MD per 100 seedlings)	4.44	1795.98	0.00	1795.98	3591.96
4	2 weeding and 1 soil working with fertilizer application 2.5 MD per 100 seedlings at MS Rate Rs. 0.82 per seedling	27.77	11232.96	911.02	12143.98	24287.96
5	Watering 1111 seedlings November, December, January and June 1 time each and February to May 2 time each total 12 times 5 lit. of water per seedling, replacing 10% plastic cane of 5 lit. / matka @ Rs. 25 each replacing 111 cans/ matka supplying water @ Rs. 0.50 per lit. and wages for watering @ 1 MD per 150 seedlings	88.88	35951.96	36105.00	72056.96	144113.92
6	Watch and Ward (10 months- 1 watcher per 10 Ha.)	36.50	14764.25	0.00	14764.25	29528.5
7	Fire Tracing	2.00	809.00	0.00	809.00	1618.00
Total		162.36	65674.62	37824.06	103498.67	206997.34
Contingency 3%		--	--	--	3104.96	6209.92
Labour Welfare 4%		--	--	--	4139.94	8279.88
Grand Total		162.36	65674.62	37824.06	110743.57	221487.14

E. THIRD YEAR OPERATIONS

1	1 weeding and 1 soil working (1.5 MD per 100 seedlings) Applying fertilizer @ Rs. 0.82 per plant	16.67	6743.01	911.02	7654.03	15308.06
2	Watering 556 seedlings in November, December, January and June 1 time each and February to May 2 time each, total 12 times each seedling, 5 lit. water supply @ Rs. 0.50 lit. and watering 150 seedlings per MD	44.48	17992.16	16680.00	34672.16	69344.32
3	Watch and Ward (10 months- 1 watcher per 10 Ha.)	36.50	14764.25	0.00	14764.25	29528.5
4	Counting of survival percentage grid wise and species wise and to note the same on register in May and October	2.00	809.00	25.00	834	1668.00
5	Fire Tracing	2.00	809.00	0.00	809	1618.00
Total		101.65	41117.42	17616.02	58733.44	117466.88
Contingency 3%		--	--	--	1762.00	3524.00
Labour Welfare 4%		--	--	--	2349.33	4698.66

Grand Total		101.65	41117.42	17616.02	62844.77	125689.54
F. FOURTH YEAR OPERATIONS						
1	Watch and Ward (10 months- 1 watcher per 10 Ha.)	36.5	14764.25	0.00	14764.25	29528.5
2	Counting of survival percentage grid wise and species wise and to note the same on register in May and October	2.00	809.00	25.00	834.00	1668.00
3	Fire Tracing	2.00	809.00	0.00	809.00	1618.00
Total		40.5	16382.25	25.00	16407.25	32814.5
Contingency 3%		--	--		492.21	984.42
Labour Welfare 4%		--	--		656.29	1312.58
Grand Total		40.5	16382.25	25.00	17555.75	35111.5
G. FIFTH YEAR OPERATIONS						
1	Watch and Ward (10 months- 1 watcher per 10 Ha.)	36.5	14764.25	0.00	14764.25	29528.5
2	Counting of survival percentage grid wise and species wise and to note the same on register in May and October	2.00	809.00	25.00	834.00	1668.00
3	Fire Tracing	2.00	809.00	0.00	809.00	1618.00
Total		40.5	16382.25	25.00	16407.25	32814.5
Contingency 3%		--	--		492.21	984.42
Labour Welfare 4%		--	--		656.29	1312.58
Grand Total		40.5	16382.25	25.00	17555.75	35111.5
H. SIXTH YEAR OPERATIONS						
1	Watch and Ward (10 months- 1 watcher per 10 Ha.)	36.5	14764.25	0.00	14764.25	29528.5
2	Counting of survival percentage grid wise and species wise and to note the same on register in May and October	2.00	809.00	25.00	834.00	1668.00
3	Fire Tracing	2.00	809.00	0.00	809.00	1618.00
Total		40.5	16382.25	25.00	16407.25	32814.5
Contingency 3%		--	--		492.21	984.42
Labour Welfare 4%		--	--		656.29	1312.58
Grand Total		40.5	16382.25	25.00	17555.75	35111.5
I. SEVENTH YEAR OPERATIONS						
1	Watch and Ward (10 months- 1 watcher per 10 Ha.)	36.5	14764.25	0.00	14764.25	29528.5
2	Counting of survival percentage grid wise and species wise and to note the same on register in May and October	2.00	809.00	25.00	834.00	1668.00
3	Fire Tracing	2.00	809.00	0.00	809.00	1618.00
Total		40.5	16382.25	25.00	16407.25	32814.5
Contingency 3%		--	--		492.21	984.42
Labour Welfare 4%		--	--		656.29	1312.58
Grand Total		40.5	16382.25	25.00	17555.75	35111.5
J. EIGHTH YEAR OPERATIONS						
1	Watch and Ward (10 months- 1 watcher per 10 Ha.)	36.5	14764.25	0.00	14764.25	29528.5
2	Counting of survival percentage grid wise and species wise and to note the same on register in May and October	2.00	809.00	25.00	834.00	1668.00
3	Fire Tracing	2.00	809.00	0.00	809.00	1618.00
Total		40.5	16382.25	25.00	16407.25	32814.5
Contingency 3%		--	--		492.21	984.42
Labour Welfare 4%		--	--		656.29	1312.58
Grand Total		40.5	16382.25	25.00	17555.75	35111.5
K. NINTH YEAR OPERATIONS						
1	Watch and Ward (10 months- 1 watcher per 10 Ha.)	36.5	14764.25	0.00	14764.25	29528.5
2	Counting of survival percentage grid wise and species wise and to note the same on register in May and October	2.00	809.00	25.00	834.00	1668.00


3	Fire Tracing	2.00	809.00	0.00	809.00	1618.00
Total		40.5	16382.25	25.00	16407.25	32814.5
Contingency 3%		--	--		492.21	984.42
Labour Welfare 4%		--	--		656.29	1312.58
Grand Total		40.5	16382.25	25.00	17555.75	35111.5
L. TENTH YEAR OPERATIONS						
1	Watch and Ward (10 months- 1 watcher per 10 Ha.)	36.5	14764.25	0.00	14764.25	29528.5
2	Counting of survival percentage grid wise and species wise and to note the same on register in May and October	2.00	809.00	25.00	834.00	1668.00
3	Fire Tracing	2.00	809.00	0.00	809.00	1618.00
Total		40.5	16382.25	25.00	16407.25	32814.5
Contingency 3%		--	--		492.21	984.42
Labour Welfare 4%		--	--		656.29	1312.58
Grand Total		40.5	16382.25	25.00	17555.75	35111.5

Date: 09 / 08 /2021

Place: Pune

Office Seal:


वनपरिक्षेत्र अधिकारी
बारामती


RAHUL PATIL, IFS
Dy. Conservator of Forests
Pune Forest Division, Pune