

Annexure – I

Sr. No.	Particulars of work	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
First Year: Per hectare cost at wage rate of 445/- per day during 2023-24:					
1	Singling/pruning (200 No.) and clearance of musquet bushes (200 No.)	Ha.	1	LS	10,000.0
2	Dak bailing and alignment	Ha.	3	304.68	914.0
3	Digging of trench (2.0mx0.45mx0.45m) (350 Nos) along the contour	M ³	141.75	356	50,463.0
4	Digging of pits 700 No. (350x 0.45m x 0.45m x 0.45m for Tress; 350x 0.45m x 0.45m x 0.45m for shrubs/climbers)	M ³	63.79	356	22,709.2
5	Average cost of raising of plants in Nry. in 20x30 cm bags (700 + 20% extra)	No.	840	42.27	35,506.8
6	Loading and unloading of plants in Tractor/Cart	No.	770	1.33	1,024.1
7	Carriage of plants	No.	770	5.59	4,304.3
8	Further carriage of plants by manual labour in hilly area where vehicle etc. connect reach	No.	770	4.44	3,418.8
9	Planting of seedling including 10% replacement	No.	770	17.43	13,421.1
10	Reopening of Pits (10% replacement)	No.	6.38	101.71	648.8
11	Cost of fertilizers, manures, insecticides and neem cake as proposed	No.	700	20	14,000.0
12	Mali-cum-Protection watcher: One person for every 10 ha will be employed to look after and also for protection of resources created; he will apply water, fertilizers and do weeding hoeing.	Days	31.2	445	13,884.0
13	Seed sowing	No.	300	LS	6,000.0
14	Cost of training & Pruning equipments			LS	2,000.0
15	No watering proposed due to non-possibility, only rainwater will be conserved on site and the plantation will be rainfed only.				-
16	Grass Seeds casting			LS	2,500.0
17	Barb wire fencing	KM	0.5	3,00,000	1,50,000.0
	Total				3,30,794.2
	Contractor Profit 7%				23,155.6
	EPF @13% on 50% of Total amount considering as labour component				21,501.6

Sr. No.	Particulars of work	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
	ESI @3.25% on 50% of Total amount considering as labour component				5,375.4
	Grand Total				3,80,826.9

2nd year expenditure at wage rate of Rs. 445/- per day (Replacement @ 20 per cent)

1	Singling/pruning, training and thinning of musquet bushes	Ha.	1	LS	6,000.0
2	Raising of plants in Nry.	No.	168	42.27	7,101.4
3	Re-opening of pits	M ³	12.76	356	4,542.6
4	Loading and unloading of plants	No.	154	1.33	204.8
5	Carriage of plants	No.	154	5.59	860.9
6	Further carriage of plants by manual labour in hilly area where vehicle etc. connect reach	No.	154	4.44	683.8
7	Planting of saplings	No.	140	17.43	2,440.2
8	Seed sowing	Nos.		LS	4,000.0
9	Miscellaneous expenditure for purchase of fertilizer, pesticides, foliage Nutrients Baskets & Tins etc. (LS)	No.	700	10	7,000.0
10	Mali-cum-Protection watcher: One person for every 10 ha will be employed to look after and also for protection of resources created; he will apply water, fertilizers and do weeding hoeing.	Days	31.2	445	13,884.0
1-1	Grass Seed Casting			LS	1,500.0
	Total				48,217.6
	Contractor Profit 7%				3,375.2
	EPF @13% on 50% of Total amount considering as labour component				3,134.1
	ESI @3.25% on 50% of Total amount considering as labour component				783.5
	Grand Total				55,510.5

3rd year expenditure at the wage rate of Rs. 445/- per day (Replacement @ 10 percent)

1	Singling/pruning, training and thinning of musquet bushes	Ha.	1	LS	6,000.0
2	Raising of plants in Nry.	No.	84	42.27	3,550.7
3	Re-opening of pits (10%)	M ³	6.379	356	2,270.9
4	Loading and unloading of plants	No.	82.5	1.33	109.7
5	Carriage of plants	No.	82.5	5.59	461.2

Sr. No.	Particulars of work	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
6	Further carriage of plants by manual labour in hilly area where vehicle etc. connect reach	No.	82.5	4.44	366.3
7	Planting of seedling	No.	70	17.43	1,220.1
8	Miscellaneous expenditure for purchase of fertilizer, pesticides, pruning & thinning etc.	No.	700	10	7,000.0
9	Mali-cum-Protection watcher: One person for every 10 ha will be employed to look after and also for protection of resources created; he will apply water, fertilizers and do weeding hoeing.	Days	31.2	445	13,884.0
	Total				34,862.9
	Contractor Profit 7%				2,440.4
	EPF @13% on 50% of Total amount considering as labour component				2,266.1
	ESI @3.25% on 50% of Total amount considering as labour component				566.5
	Grand Total				40,135.9

4 th year expenditure at the wage rate of Rs. 445/- per day (Replacement @ 10 percent)					
1	Singling/pruning, training and thinning of musquet bushes	Ha.	1	LS	6,000.0
1	Raising of plants in Nry.	No.	84	42.27	3,550.7
2	Re-opening of pits 30 x 0.45m x 0.45m x 0.45m	M ³	6.379	356	2,270.9
3	Loading and unloading of plants	No.	77	1.33	102.4
4	Carriage of plants	No.	77	5.59	430.4
5	Further carriage of plants by manual labour in hilly area where vehicle etc. connect reach	No.	77	4.44	341.9
6	Planting of seedling	No.	70	17.43	1,220.1
7	Miscellaneous expenditure for purchase of fertilizer, pesticides, pruning & thinning etc.	No.	700	10	7,000.0
8	Mali-cum-Protection watcher: One person for every 10 ha will be employed to look after and also for protection of resources created; he will apply water, fertilizers and do weeding hoeing.	Days	31.2	445	13,884.0
	Total				34,800.4
	Contractor Profit 7%				2,436.0
	EPF @13% on 50% of Total amount considering as labour component				2,262.0

Sr. No.	Particulars of work	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
	ESI @3.25% on 50% of Total amount considering as labour component				565.5
	Grand Total				40,064.0
5th year expenditure at the wage rate of Rs. 445/- per day					
1	Misc. Expenditure on cleaning/pruning and spacing	L.S			4,000.0
2	Mali-cum-Protection watcher: One person for every 10 ha will be employed to look after and also for protection of resources created; he will apply water, fertilizers and do weeding hoeing.	Days	31.2	445	13,884.0
	Total				17,884.0
	Contractor Profit 7%				1,251.9
	EPF @13% on 50% of Total amount considering as labour component				1,162.5
	ESI @3.25% on 50% of Total amount considering as labour component				290.6
	Grand Total				20,589.0
6th year expenditure at the wage rate of Rs. 445/- per day					
1	Misc. Expenditure on cleaning/pruning and spacing	L.S			4,000.0
2	Mali-cum-Protection watcher: One person for every 10 ha will be employed to look after and also for protection of resources created; he will apply water, fertilizers and do weeding hoeing.	Days	31.2	445	13,884.0
	Total				17,884.0
	Contractor Profit 7%				1,251.9
	EPF @13% on 50% of Total amount considering as labour component				1,162.5
	ESI @3.25% on 50% of Total amount considering as labour component				290.6
	Grand Total				20,589.0
7th year expenditure at the wage rate of Rs. 445/- per day					
1	Misc. Expenditure on cleaning/pruning and spacing	L.S			4,000.0
2	Mali-cum-Protection watcher: One person for every 10 ha will be employed to look after and also for protection of resources created; he will apply water, fertilizers and do weeding hoeing.	Days	31.2	445	13,884.0
	Total				17,884.0

Sr. No.	Particulars of work	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
	Contractor Profit 7%				1,251.9
	EPF @13% on 50% of Total amount considering as labour component				1,162.5
	ESI @3.25% on 50% of Total amount considering as labour component				290.6
	Grand Total				20,589.0
8th year expenditure at the wage rate of Rs. 445/- per day					
1	Misc. Expenditure on cleaning/pruning and spacing	L.S			4,000.0
2	Mali-cum-Protection watcher: One person for every 10 ha will be employed to look after and also for protection of resources created; he will apply water, fertilizers and do weeding hoeing.	Days	31.2	445	13,884.0
	Total				17,884.0
	Contractor Profit 7%				1,251.9
	EPF @13% on 50% of Total amount considering as labour component				1,162.5
	ESI @3.25% on 50% of Total amount considering as labour component				290.6
	Grand Total				20,589.0
9th year expenditure at the wage rate of Rs. 445/- per day					
1	Misc. Expenditure on cleaning/pruning and spacing	L.S			4,000.0
2	Mali-cum-Protection watcher: One person for every 10 ha will be employed to look after and also for protection of resources created; he will apply water, fertilizers and do weeding hoeing.	Days	31.2	445	13,884.0
	Total				17,884.0
	Contractor Profit 7%				1,251.9
	EPF @13% on 50% of Total amount considering as labour component				1,162.5
	ESI @3.25% on 50% of Total amount considering as labour component				290.6
	Grand Total				20,589.0
10th year expenditure at the wage rate of Rs. 445/- per day					
1	Misc. Expenditure on cleaning/pruning and spacing	L.S			4,000.0
2	Mali-cum-Protection watcher: One person for every 10 ha will be employed to look after and also for protection of resources created; he will	Days	31.2	445	13,884.0

Sr. No.	Particulars of work	Unit	Qty.	Unit Rate (Rs.)	Amount (Rs.)
	apply water, fertilizers and do weeding hoeing.				
	Total				17,884.0
	Contractor Profit 7%				1,251.9
	EPF @13% on 50% of Total amount considering as labour component				1,162.5
	ESI @3.25% on 50% of Total amount considering as labour component				290.6
	Grand Total				20,589.0

Annexure – II

ABSTRACT OF COST.					
Construction of boundary wall length approx. 1000 Metre on forest land in Haryana Aravalli					
DSR-2016	Description of item.	Qty.	Unit	Rate	Amount.
2.8.1	Earth work in excavation by mechanical means (hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m width or 10 sqm on plan)) including dressing of sides and ramming of bottom. lift up to 1.5m. including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. in all kind of soil.	490.00	Cum	166.4	81,536
4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:4:8 (1 Cement: 4 coarse sand (zone-III): 8 graded stone aggregate 40 mm nominal size).	70.00	Cum	4478.15	3,13,471
6.1.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand: 12 graded stone aggregate 20 mm nominal size) upto plinth level with: Cement mortar 1:6 (1 cement: 6 coarse sand).	799.00	Cum	3,965.85	31,68,714
A/R	Random rubble masonry with hard stone in superstructure above plinth level and upto floor II level, including leveling up with cement concrete 1:6:12 (1 cement 6 coarse sand 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like. Cement mortar 1:6 (1 cement: 6 coarse sand)	332.00	cum	4,505.33	14,95,770
16.15.1	Supplying at site: R.C.C. Standards posts/struts/rails/ poles of mix 1:1.5:3 (1 cement: 1 5 coarse sand: 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar ribs wherever required as per direction of Engineer-in-charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	144.00	Cum	19,774.55	28,47,535
5.9.6	Centering and shuttering including strutting, propping etc. and removal of form for all heights: Columns, Pillars, Piers, Abutments, Posts and Struts	400.00	Sqm	467.85	1,87,140
5.1.2	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level .1:1.5:3 (1 cement: 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	60.00	Cum	6,215.35	3,72,921
5.22.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Cold twisted bars	7065.00	K.g	56.6	3,99,879
5.9.15	Centering and shuttering including strutting, propping etc. and removal of form work for small lintels not exceeding 1.50 m clear span, moulding as in cornices, window sills, string courses, bands, coping, bed plates anchor blocks and like.	215.00	sgm	193.95	41,699

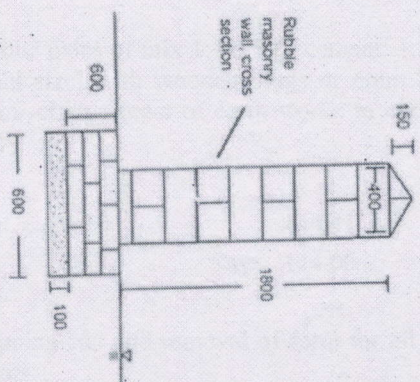
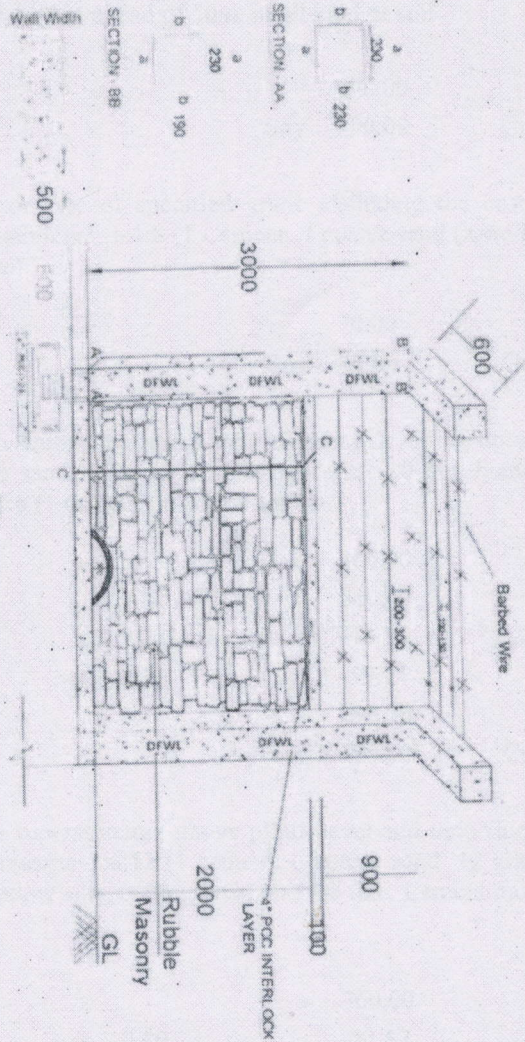
ABSTRACT OF COST.

Construction of boundary wall length approx. 1000 Metre on forest land in Haryana Aravalli

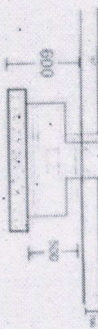
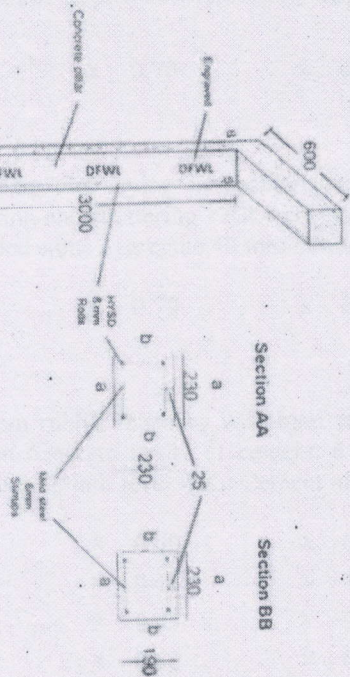
DSR-2016 A/R	Description of item.	Qty.	Unit	Rate	Amount.
	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks plain window sills fillets etc. upto floor II level, excluding the cost of centering, shuttering and finishing 1:2:4(1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	42.00	cum	6,065.56	2,54,754
13.33.2	Pointing on stone work with cement mortar 1:3(1 cement: 3 fine sand): raised and cut pointing	4138.00	sgm	305.7	12,64,987
16.17.1	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks. every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar ribs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately): - Payment to be made per metre cost of total length of barbed wire used.	9,000.00	Metre	8.25	74,250
Add 17.65% prevailing Cost Index issued by CPWD					1,05,02,655
Less 9.50% enhancement as per order Finance Department.					18,53,719
					1,23,56,373
					11,73,855
					1,11,82,518
					1,11,825
					1,11,825
					1,11,825
G. Total					₹ 1,15,17,993

Cost Estimate (Rs/RKM)

Note: All values are in mm



Sectional Elevation of Coursed Rubble Stone (Sandstone) Masonry



Sectional Elevation Profile of Pillar

TYPICAL WALL + PILLAR + FENCE
COMPOSITE PROFILE OF
BOUNDARY PROPOSED TO BE
CONSTRUCTED AROUND
NOTIFIED FOREST

- 7 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of cantering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement: 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).

333	x	0.60	x	0.60	x	0.50	59.94	
							Say 60.00	CuM

- 8 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Cold twisted bars Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Cold twisted bars

1.5% of Item No.7	60	x	7,850.00	x	1.50%	7,065.00	
						Say 7,065.00	Kg

- 9 Centering and shuttering including strutting, propping etc. and removal of form work for small lintels not exceeding 1.50 m clear span, moulding as in cornices, window sills, string courses, bands, coping, bed plates anchor blocks and like.

	2	x	1000	x	0.10	200.00	
Less for Column	-666	x	0.23	x	0.10	15.32	
						215.32	
						Say 215.00	SqM

- 10 Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks plain window sills fillets etc. upto floor II level, excluding the cost of centering, shuttering and finishing 1 :2:4(1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)

1	x	1000	x	0.45	x	0.1	45.00	
-333	x	0.23	x	0.45	x	0.1	-3.45	
							41.55	
							Say 42.00	CUM

- 11 Pointing on stone work with cement mortar 1 :3(1 cement: 3 fine sand): raised and cut pointing.

	2	x	1000	x	2	4,000.00	
Less for Column	-333	x	0.23	x	1.8	137.86	
						4,137.86	
						Say 4,138.00	SqM

- 12 Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.