

OFFICE OF THE RANGE FOREST OFFICER SHAHABAD(BARAN)
Technical Estimate Afforestation Advance Work 2023-24

(1) Scheme :- Campa(Hamgarh mata ji parikrama marg)

(2) Name of Project :- Plantation Ranipura VII

(3) Estimated cost :- Rs. -3290427

(4) Name of Site :- Ranipura Village :- Ranipura

(5) GPS Coordinate :- N 25°18'47.14" E 77°03'36.74"

Forest Block

VFPMC

Model

Naka

AREA

9.06

Telni D

Kirar Pahadi

NFL

Rajpur

Ha

S.N	BSR Page/Item	Detail of Activities	Qty	Unit	Labour (V/fmc)	Material(De partmental)	AREA Total	9.00 Labour	10 Material	11 Total
Advance Work 2023-24										
1	As per Model	Collection of data regarding impact assessment and strengthening joint forest management	9 06	ha	0 00	72 46	72 46	0	656 4876	656 49
2	2 1 1	Survey of the area, demarcation & layout	9 06	ha	86 36	0	86 36	782 4216	0	782 42
3	2 1 2	Dividing the area in subplots and their semi permanent demarcation in field and preparation of map	9 06	ha	234 12	0	234 12	2121 1272	0	2121 11
4	2 2	Fencing								
A	2 2 1	Stone wall fencing Random rubble loose stone fencing of size 0 8 m at base, 0 60 m at top and 1 2 m high (rates are for volume including voids) 1750mm								
B	2 2 1 3	If lead is more than 500 m(1750 mm)	1470 00	cmt	439 89	0	439 89	646638 3	0	646638 30
5	Model cost	Cost of raising 10963 seedling								
1	As per Model	प्राथमिक बीज बगई में खोद कर 12 5 x 30 सेमी 40 संख्याओं पर 145 200 - 10 00	35 52012	kg	0	145 2	145 20	0 00	5157 52	5157 52
2	As per Model	बीज बगई बनाना / काम करना	1 s						2000 00	2000 00
3	As per Model	बीज बगई में बीज(बीजों को खोद) काम करना	5 26224	cmt	0	3000 00	1000 00	0 00	5262 24	5262 24
4	As per Model	बिजों को मिट्टी की जांचकर करना एवं बीजों को में परिवर्तन करना	5 26224	cmt	0	600	600	0 00	3157 34	3157 34
5	As per Model	बीज की जांचकर करना एवं बीजों को में परिवर्तन	5 26224	cmt	0	1000	1000	0 00	5262 24	5262 24
6	1 3 2	Construction of beds having size 10mx1 20mx0 40m (includes removal of digup soil from nursery, dressing and leveling of beds) in clayey loam soil(7 bed)	33 60	cmt	127 69	0	127 69	4290 38	0 00	4290 38
7	1 7 2	Filling of new bags and arranging them in beds (including	10963	per 1000 plants	1121 21	0	1121 21	12291 83	0 00	12291 83
9	1 9	Seed sowing in nurseries(including seed treatment)								
10	1 9 2	Seed Sowing in Bags	10963	per 1000 plants	269 6	0	269 6	2955 62	0 00	2955 62
11	1 17 1	Weeding and hoeing of plants in polythene bags (3 Time)	10963	per 1000 plants	248 38	0	248 38	8168 97	0 00	8168 97
12	1 18 1	Treatment of plants in nurseries using insecticides (3 time)	7	per bed	22 4	0	22 4	470 40	0 00	470 40
13	1 16 1	Watering of plants in beds using rose can 78 times in polythene	10963	per 1000 plants	12 95	0	12 95	11073 73	0 00	11073 73
14	1 11 2	Shifting of polythene bags (including grading cutting of roots and rearranging them in beds) size 12x30 cm	10963	per 1000 plants	432 77	0 00	432 77	4744 46	0 00	4744 46
15	As per Model	प्लांटिंग का पत्र बनाना खोद कर 10 00			LS				4000 00	4000 00
6	2 4	Digging of pits (size 0 45 m x0 45 mx0 45m or (0 50x0 40) 2X (0 50x0 40) /2x0 45 cubic meter) (4530 pits)								
A	2 1 3	Layout for excavation of pits	4530	Per pit	0 63	0	0 63	2853 9	0	2853 90
B	2 4 1 6	In hard murram kankar-compact clayey soil	4530	Per pit	23 81	0	23 81	107859 3	0	107859 30
7		Digging up trenches								
A	2 1 4	Layout for excavation of staggered contour trenches	3624	Per mtr	0 63	0 00	0 63	2283 12	0 00	2283 12
B	1 C (Approved by ZP order no 3801-04 date 15 01 2018)	Excavation including loading unloading disposal and dressing of excavated earth within initial lead of 50m and lift up to 1 5m in dry or moist including dressing of excavated area dewatering wherever required complete in all respect In Hard soil mixed with kankar / boulders, morrum size 0 45x0 45=0 2025x3624 mtr=733 86 cmt	733 86	Per cmt	0 00	76 00	76 00	0 00	55773 36	55773 36
8		MPT 1 60 MTR								
A	GKN 6-B	समोच्चता करना 8 से 15 सेमी गहराई तक	180 00	मी	1 55	0 00	1 55	279 00	0 00	279 00
B	GKN 191	जलवायु की समीक्षा समायोजन करवाते समय प्रारंभिक को करना सहित	1500 00	वर्ग मी	2 59	0 01	2 60	3885 00	15 00	3900 00
C	wrd bsr 2020 chapter 5 item no 21	Benching base and depositing the excavated material including dressing etc complete within initial lead up to 50m and lift up to 1 5m	90 25	घन मी	0 00	69 00	69 00	0 00	6227 25	6227 25
D	(Approved by ZP order no 3801-04date 15 01 2018)	Earth work in rough (borrow area) excavation for embankment in hard soil, Morrum of highly weathered strata dry o moist, including dewatering laying in 20 cm layers (before compaction) and breaking of clods, sorting of grass, pebbles etc and dressing	321 05	घन मी	0 00	73 00	73 00	0 00	23436 65	23436 65
E	wrd bsr 2020 chapter 5 item no 19 A	Compaction of earth or highly weathered strata a by manually or plain roller , (density 90 % of Proctor)	321 05	घन मी	0 00	20 00	20 00	0 00	6421 00	6421 00

F	(Approved by ZP order no. 3801-04/15-21-2018)	Excavation including loading/unloading disposal and dressing of excavated earth within initial lead of 50m and lift up to 1.5m in dry or moist including dressing of excavated area dewatering wherever required complete in all respects. In hard soil mixed with kankar boulders, morrum	287.20	sq. m	0.00	70.00	70.00	0.00	19547.20	19547.20
G	(Approved by ZP order no. 3801-04/15-21-2018)	Earth work in rough (barrow) area excavation for embankment in hard soil, Minimum of highly weathered strata (dry or moist, including dewatering, laying in 20 cm layers before compaction) and breaking of clods, sorting of grains, pebbles etc. and dressing for worst work	7.80	sq. m	0.00	73.00	73.00	0.00	569.40	569.40
H	GKN 185 R	earthwork of transportation lead upto 10 km with loading and unloading and spreading complete work	18.00	sq. m	0.00	165.94	165.94	0.00	2986.92	2986.92
I	GKN 187	earthwork of transportation lead upto 10 km with loading and unloading and spreading complete work	8.64	sq. m	343.75	1190.13	1533.88	2970.00	10282.72	13252.72
J	As Per Model	Construction of gate and Sign board								
K		Construction of gate Pillars								
L	PWD BSR pg no B-2 item no. 191	Earth work in excavation in foundation trenches or drains including dressing of sides and ramming of bottoms, lift upto 1.5 mtr. Including taking out the excavated soil and depositing and refilling of pit with watering and ramming and disposal of surplus excavated soil as directed within a lead of 50 mtr all kinds of soil								
		No	L	B	H	Qty				
		2	0.90	0.90	0.60	0.972	Per Cum	316.00	0.00	316.00
M	PWD BSR pg no B-14 item no. 328	Providing and laying in Position Cement concrete including curing Compaction etc. complete in specified grade excluding the cost of centering and shuttering all work upto plinth level mortar 1:5:10 aggregate 40mm nominal size Under Wall								
		No	L	B	H	Qty				
		2	0.90	0.90	0.15	0.243	Per Cum	2719.00	0.00	2719.00
N	PWD BSR pg no B-42 item no. 617	Random Rubble stone masonry for foundation and plinth in cement sand mortar above 30cm thick wall in cement mortar 1:6 (1 cement: 6 sand)								
		No	L	B	H	Qty				
		2	0.90	0.90	0.30	0.486	Per Cum	2401.00	0.00	2401.00
O	PWD BSR pg no B-43 item no. 627	Random rubble stone masonry for super-structure above plinth level one storey height above 30cm thick wall in Cement mortar 1:6								
		No	L	B	H	Qty				
		2	0.75	0.75	1.50	1.6875	Per Cum	2587.00	0.00	2587.00
P	PWD BSR pg no B-146 item no. 1291	Plaster on new surface of walls in cement sand mortar 1:6 including racking of joints etc. complete fine finished 25 mm thick								
		No	L	B	H	Qty				
		2	1.50	1.50	1.50	6.75	Per Sqm	173.00	0.00	173.00
Q	PWD BSR pg no B-174 item no. 1522	Providing and laying damp-proof course with cement concrete grade M-150(1:2:4)mortar prepared with 1% solution of water proof compound including two coats of hot blown bitument (2Kg per sqm) complete as per specification with glass strip 3 mm thick at a distance of 1 mtr interval 50mm thick								
		No	L	B	H	Qty				
		2	0.75	0.75		1.125	Per Sqm	204.00	0.00	204.00
R	As per market rate	purchasing gate and Sign board	1	per gate and sign board	0.00	9800.00	9800.00	0.00	9800.00	9800.00
S	252	Construction of paths 3 meter wide path for vehicles in various areas	900	per running meter	12.43	0.00	12.43	11187.00	0.00	11187.00
T	As per Model	Construction of thatched cattle guard hut								
U	(पंचायत समिति शाहाबाद ग्रामीण विकास 01/04/2023 आईएम नं 2 ब)	नीच खाई, परसाला में 1.5 महराई तक मिट्टी की कुलाई करना तल को कटना पानी डालना बमल को सफा करना खुदी मिट्टी को बाहर निकालना नीच भरने के बाद खाली स्थानों को पुन मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना (सहज चिकनी कारर मिट्टी में) साईज 3.05X4X0.75X0.75 mtr= 6.86 cmt	6.86	cmt	160.58	1.60	162.18	1101.58	10.98	1112.55
V	(पंचायत समिति शाहाबाद ग्रामीण विकास 01/04/2023 आईएम नं 26 अ)	नीच तथा कुसी में पत्थर की वे रक्दा-टाका चिनाई गारा मसाले में या चिना मसाले में सुखे पत्थर में (गारे मसाले में) साईज 3.05X4X0.45X2.44 mtr= 13.40 cmt	13.40	cmt	824.10	1279.59	2103.69	11042.94	17146.51	28189.45

1	115	Seed sowing of the tree species on mounds of ditch/Dola fencing, trenches, Deep CCI, etc. at a spacing of 30 cms (185 Rmt x 9.06)	1676	Rmt	0.63	0.00	0.63	1055.88	0.00	1055.88
4	44	Pruning/Branch cutting (cutting of branches in lower 1/3rd of the plant) up to 2 mtr height								
A	441	up to 2 mtr height	600	per tree	1.94	0.00	1.94	1164.00	0.00	1164.00
B	442	between 2-4 mtr height	500	per tree	2.98	0.00	2.98	1490.00	0.00	1490.00
5	120	Seed collection (local)								
A	1201	Babool	15	Per kg	51.80	0	51.80	777.00	0.00	777.00
B	12012	Khair	15	Per kg	151.11	0	151.11	2266.65	0.00	2266.65
6	81	Watch and ward @ 259 per day for 112 days (One chowkidar)	112	Days	259.00	0.00	259.00	80808.00	0.00	80808.00
7	As per Model	Maintenance of vehicles						2500	2500.00	
		TOTAL YEAR 1						104962	3159	108121
8	As per Model	Administrative charges 10%								10812
		Total								118932.91
		Say Total								118933

Year XI (Maintenance year) 2034-35

1	As per model	Collection of data regarding impact assessment and strengthening joint forest management	9.06	ha	0.00	72.76	72.76	0.00	659.21	659.21
2	2215	Repair of stone wall fencing. Random rubber loose stone fencing of size 0.8 m at base, 0.60 m at top and 1.2 m high (rates are for volume including voids) 120 mt	100.80	cm	172.62	0.00	172.62	17400.10	0.00	17400.10
3	115	Seed sowing of the tree species on mounds of ditch/Dola fencing, trenches, Deep CCI, etc. at a spacing of 30 cms (185 Rmt x 9.06)	1676	Rmt	0.63	0.00	0.63	1055.88	0.00	1055.88
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7	As per Model	Maintenance of vehicles						2500	2500.00	
		TOTAL YEAR 1						104962	3159	108121
8	As per Model	Administrative charges 10%								10812
		Total								118932.91
		Say Total								118933

Year XII (Maintenance year) 2035-36

1	As per model	Collection of data regarding impact assessment and strengthening joint forest management	9.06	ha	0.00	72.76	72.76	0.00	659.21	659.21
2	2215	Repair of stone wall fencing. Random rubber loose stone fencing of size 0.8 m at base, 0.60 m at top and 1.2 m high (rates are for volume including voids) 120 mt	100.80	cm	172.62	0.00	172.62	17400.10	0.00	17400.10
3	115	Seed sowing of the tree species on mounds of ditch/Dola fencing, trenches, Deep CCI, etc. at a spacing of 30 cms (185 Rmt x 9.06)	1676	Rmt	0.63	0.00	0.63	1055.88	0.00	1055.88
4	44	Pruning/Branch cutting (cutting of branches in lower 1/3rd of the plant) up to 2 mtr height								
A	441	up to 2 mtr height	600	per tree	1.94	0.00	1.94	1164.00	0.00	1164.00
B	442	between 2-4 mtr height	500	per tree	2.98	0.00	2.98	1490.00	0.00	1490.00
5	120	Seed collection (local)								
A	1201	Babool	15	Per kg	51.80	0	51.80	777.00	0.00	777.00
B	12012	Khair	15	Per kg	151.11	0	151.11	2266.65	0.00	2266.65
6	81	Watch and ward @ 259 per day for 112 days (One chowkidar)	112	Days	259.00	0.00	259.00	80808.00	0.00	80808.00
7	As per Model	Maintenance of vehicles						2500	2500.00	
		TOTAL YEAR 1						104962	3159	108121
8	As per Model	Administrative charges 10%								10812
		Total								118932.91
		Say Total								118933
		Grand Total								3290427

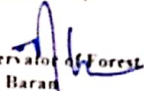
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7 year	118933
8 year	118933
9 year	118933
10 year	118933
11 year	118933
12 year	118933
Total	3290427

Not - Certified that the Rates charged are as per the department D.S.R. OF CCT, Kota 2022, WRD Baran Bar 2020, Govt. Shahabad 2023 and Zila parishad Baran order 2018

Technically checked

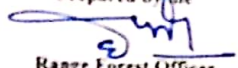

Asst. Conservator of Forest
Baran

Sanctioned by


Dy. Conservator of Forest
Baran

(दीपक कुमार गुप्ता)
उपवन संरक्षक
बारी

Prepared by me


Range Forest Officer
Shahabad