

MUNGER FOREST DIVISION, MUNGER
वित्तीय वर्ष 2022-2023 से 2031-2032 तक क्षतिपूरक वनरोपण हेतु प्राक्कलन

NAME OF THE DIVISION	MUNGER FOREST DIVISION, MUNGER		
NAME OF THE RANGE	Lakhisarai		
NAME OF DISTRICT-	Lakhisarai		
NAME OF BLOCK	Chanan		
NAME OF THE (PLANTION SITE)	Budhoulee Bankar		
THANA NO.	99		
PLOT NO.	945		
LENGTH OF TRENCH FENCING (in G/Chain)	60		
Soil Conservation Measures (90 Contour Trench/Ha)	5		
NO. OF PLANTS	17050		
	Gross	Net	
AREA	20	15.5	HA.

GPS Locetion:-

N-25.106721 E-86.205958

GPS Locetion:-

N-25.106721 E-86.205958
N-25.107839 E- 86.207208
N-25.109336 E- 86.208253
N-25.105912 E- 86.208156
N-25.105473 E- 86.209193

I.No.	Work	Wage Rate in Rupees per day				318							
		Unit	Mand days	Unit						Physical	Total		
				Wages	Material						Wages	Material	Financial
<u>C-1</u>	<u>C-2</u>	<u>C-3</u>	<u>C-4</u>	<u>C-5</u>	<u>C-6</u>	<u>C-7</u>	<u>C-8</u>	<u>C-9</u>	<u>C-10</u>				
FY-1	ADVANCE												
5.1.1	Wages for survey and demarcation including construction of temporary pillars and digging of soil profile pit	ha	3.0000	954.0000		20.00	19080	0	19080				
5.1.2	Material for survey and demarcation including construction of temporary pillars and digging of soil profile pit	ha			27.5000	20.00	0	550	550				
5.2	Hiring of amin in absence of departmental amin	ha	0.2500	79.5000		0.00	0	0	0				
5.3	Bush Cleaning, applicable only when bushes are present						0	0	0				
5.3.1	Bush Cleaning - Normal bushes	ha	8.0000	2544.0000			0	0	0				

<u>C-1</u>	<u>C-2</u>	<u>C-3</u>	<u>C-4</u>	<u>C-5</u>	<u>C-6</u>	<u>C-7</u>	<u>C-8</u>	<u>C-9</u>	<u>C-10</u>
5.3.2	Bush Cleaning - Dense bushes	ha	16.0000	5088.0000			0	0	0
5.3.3	Bush Cleaning - Very dense bushes	ha	24.0000	7632.0000		15.50	118296	0	118296
5.3.4	Cutback operations (when coppicing is needed)	ha	30.0000	9540.0000			0	0	0
5.4	Trench fencing, depositing digged earth on inner side of plantation and compacting / dressing of the same (size - 1.83 m top width X 1.22 m bottom width X 1.22 m vertical height)						0	0	0
5.4.1	Manual digging of trench in normal soil	chain	20.0000	6360.0000			0	0	0
5.4.2	Manual digging of trench in hard soil	chain	26.4000	8395.2000			0	0	0
5.4.3	Digging of trench with machine in hard soil	chain			3400.0000	60.00	0	204000	204000
5.4.4	Making of bund and compacting / dressing it (same in all soil types)	chain	3.0000	954.0000		60.00	57240	0	57240
5.4.5	Stone Wall Fencing using locally available stones (size - 0.9 m base x 0.9 m height x top width 0.3 m)	chain	21.0000	6678.0000			0	0	0
5.4.6.1	Wages for stone wall fencing when stones are not available locally (size - 0.9 m base x 0.9 m height x 0.3m top width)	chain	31.5000	10017.0000			0	0	0
5.4.6.2	Material for stone wall fencing when stones are not available locally (size - 0.9 m base x 0.9 m height x 0.3m top width)	chain			2874.3000		0	0	0
5.5	Soil moisture conservation works						0	0	0
5.5.1	Staggered contour trench size 30 cm x 30 cm x 10m @ spacing of 5 - 8 m between contour lines , Maximum 90 staggered contours per ha in normal soil (spacing and hence number will depend upon slope)	ha	34.0000	10812.0000			0	0	0
5.5.2	Staggered contour trench size 30 cm x 30 cm x 10m @ spacing of 5 - 8 m between contour lines , Maximum 90 staggered contours per ha in hard soil (spacing and hence number will depend upon slope)	ha	41.0000	13038.0000		5.00	65190	0	65190

<u>C-1</u>	<u>C-2</u>	<u>C-3</u>	<u>C-4</u>	<u>C-5</u>	<u>C-6</u>	<u>C-7</u>	<u>C-8</u>	<u>C-9</u>	<u>C-10</u>
5.6.1	Earthen check dam and gully plugging in normal soil	cft	0.0170	5.4060			0	0	0
5.6.2	Dressing of checkdam in normal soil	cft	0.0026	0.8268			0	0	0
5.6.3	Earthen check dam and gully plugging in hard soil	cft	0.0200	6.3600			0	0	0
5.6.4	Dressing of checkdam in hard soil	cft	0.0030	0.9540			0	0	0
5.7.1	Wages for checkdam using local sand bags in normal soil	cft	0.0200	6.3600			0	0	0
5.7.2	Material for checkdam using local sand bags in normal soil	cft			5.5000		0	0	0
5.7.3	Wages for checkdam using local sand bags in hard soil	cft	0.0230	7.3140			0	0	0
5.7.4	Material for checkdam using local sand bags in hard soil	cft			5.5000		0	0	0
5.8.1	Wages for construction of water harvesting tank in normal soil	cft	0.0150	4.7700			0	0	0
5.8.2	Wages for construction of water harvesting tank in hard soil	cft	0.0200	6.3600			0	0	0
5.9	Earth Work - Alignment and pit digging in areas having normal / soft soil						0	0	0
5.9.1	Pits 0.30m x 0.30m x 0.30m Normal or soft soil	No.	0.0240	7.6320			0	0	0
5.9.2	Pits 0.45m x 0.45m x 0.45m Normal or soft soil	No.	0.0760	24.1680			0	0	0
5.10	Earth Work - Alignment and pit digging in areas having hard soil						0	0	0
5.10.1	Pits 0.30m x 0.30m x 0.30m Hard soil	No.	0.0265	8.4270		17050.00	143680.35	0	143680.35
5.10.2	Pits 0.45m x 0.45m x 0.45m Hard soil		0.0850	27.0300			0	0	0
5.11.1	Wages for part nursery work (advance work in temporary nursery near plantation site to raise seedlings including 20% extra plants) per plant	No.	0.0082	2.5942		17050.00	44231.86	0	44231.8602

<u>C-1</u>	<u>C-2</u>	<u>C-3</u>	<u>C-4</u>	<u>C-5</u>	<u>C-6</u>	<u>C-7</u>	<u>C-8</u>	<u>C-9</u>	<u>C-10</u>
5.11.2	Material for part nursery work (advance work in temporary nursery near plantation site to raise seedlings including 20% extra plants) per plant	No.			2.5003	17050.00	0	42630.115	42630.115
5.12	Contingency and Miscellaneous cost for signboards, photography, record keeping, monitoring, etc (max 2% of estimated cost)	Vr			694898.0000		0	13897.96	13897.96
	Total Advance Work						447718.21	261078.08	708796.285
FY-2	COMPLETION								
5.13.1	Wages for part nursery work (completion work in temporary nursery near plantation site to raise seedlings including 20% extra plants)	No.	0.0109	3.4694		17050.00	59152.929	0	59152.929
5.13.2	Material for part nursery work (completion work in temporary nursery near plantation site to raise seedlings including 20% extra plants)	No.			0.3080	17050.00	0	5251.4	5251.4
5.14.1	Wages for plantation work with movement of plants at site	No.	0.0320	10.1760		17050.00	173500.8	0	173500.8
5.14.2	Material for plantation work (including 10gm DAP per plant and insecticide)	No.			0.4950	17050.00	0	8439.75	8439.75
5.15	Weeding-hoeing 2 times in normal soil						0	0	0
5.15.1	Wages for 1st weeding-hoeing in normal soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0180	5.7240			0	0	0
5.15.2	Material (10 gm urea per plant) for 1st weeding-hoeing	No.			0.1650		0	0	0
5.15.3	Wages for 2nd weeding-hoeing in normal soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0120	3.8160			0	0	0
5.15.4	Material (10 gm urea per plant) for 2nd weeding-hoeing	No.			0.1650		0	0	0
5.16	Weeding-hoeing 2 times in hard soil						0	0	0

<u>C-1</u>	<u>C-2</u>	<u>C-3</u>	<u>C-4</u>	<u>C-5</u>	<u>C-6</u>	<u>C-7</u>	<u>C-8</u>	<u>C-9</u>	<u>C-10</u>
5.16.1	Wages for 1st weeding-hoeing in hard soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0210	6.6780		17050.00	113859.9	0	113859.9
5.16.2	Material (10 gm urea per plant) for 1st weeding-hoeing	No.			0.1650	17050.00	0	2813.25	2813.25
5.16.3	Wages for 2nd weeding-hoeing in hard soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0140	4.4520		17050.00	75906.6	0	75906.6
5.16.4	Material (10 gm urea per plant) for 2nd weeding-hoeing	No.			0.1650	17050.00	0	2813.25	2813.25
5.17.1	Wages for seed sowing on trench fence bunds and contour trench bunds	chain	0.5000	159.0000		60.00	9540	0	9540
5.17.2	Material for seed sowing on trench fence bunds and contour trench bunds	chain			44.0000	60.00	0	2640	2640
5.18	Protection per day for (August to March - 243 days)						0	0	0
5.18.1	0 - 30 ha	Persons X Days	1.0000	318.0000		243.00	77274	0	77274
5.18.2	31 ha -60 ha	Persons X Days	2.0000	636.0000		0.00	0	0	0
5.18.3	60 ha - 90 ha	Persons X Days	3.0000	954.0000			0	0	0
5.18.4	> 90 ha	Persons X Days	4.0000	1272.0000			0	0	0
5.19	Contingency and Miscellaneous cost for signboards, photography, record keeping, monitoring, etc (max 2% of estimated cost)	Vr			531192.0000		0	10623.84	10623.84
	Total Completion Work						509234.23	32581.49	541815.719
FY-3	1st YEAR MAINTENANCE OF PLANTATION								
5.20	Weeding-hoeing 2 times in normal soil								
5.20.1	Wages for 1st weeding-hoeing in normal soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0180	5.7240					

<u>C-1</u>	<u>C-2</u>	<u>C-3</u>	<u>C-4</u>	<u>C-5</u>	<u>C-6</u>	<u>C-7</u>	<u>C-8</u>	<u>C-9</u>	<u>C-10</u>
5.20.2	Material (10 gm urea per plant) for 1st weeding-hoeing	No.			0.1650				
5.20.3	Wages for 2nd weeding-hoeing in normal soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0120	3.8160					
5.20.4	Material (10 gm urea per plant) for 2nd weeding-hoeing	No.			0.1650				
5.21	Weeding-hoeing 2 times in hard soil								
5.21.1	Wages for 1st weeding-hoeing in hard soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0210	6.6780		17050.00	113859.9	0	113859.9
5.21.2	Material (10 gm urea per plant) for 1st weeding-hoeing	No.			0.1650	17050.00	0	2813.25	2813.25
5.21.3	Wages for 2nd weeding-hoeing in hard soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0140	4.4520		17050.00	75906.6	0	75906.6
5.21.4	Material (10 gm urea per plant) for 2nd weeding-hoeing	No.			0.1650	17050.00	0	2813.25	2813.25
5.22	Protection per day for (April to March - 365 days)						0	0	0
5.22.1	0 - 30 ha	Persons X Days	1.0000	318.0000		365.00	116070	0	116070
5.22.2	31 ha -60 ha	Persons X Days	2.0000	636.0000		0.00	0	0	0
5.22.3	60 ha - 90 ha	Persons X Days	3.0000	954.0000		0.00	0	0	0
5.22.4	> 90 ha	Persons X Days	4.0000	1272.0000		0.00	0	0	0
5.23	Trench repair	chain	3.0000	954.0000		60.00	57240	0	57240
5.24	Contingency and Miscellaneous cost for signboards, photography, record keeping, monitoring, etc (max 2% of estimated cost)	Vr			368703.0000		0	7374.06	7374.06
	Total 1st Year Maintenance Work						363076.5	13000.56	376077.06

<u>C-1</u>	<u>C-2</u>	<u>C-3</u>	<u>C-4</u>	<u>C-5</u>	<u>C-6</u>	<u>C-7</u>	<u>C-8</u>	<u>C-9</u>	<u>C-10</u>
FY-4	2nd YEAR MAINTENANCE OF PLANTATION								
5.25	Weeding-hoeing 2 times in normal soil								
5.25.1	Wages for 1st weeding-hoeing in normal soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0180	5.7240					
5.25.2	Material (10 gm urea per plant) for 1st weeding-hoeing	No.			0.1650				
5.25.3	Wages for 2nd weeding-hoeing in normal soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0120	3.8160					
5.25.4	Material (10 gm urea per plant) for 2nd weeding-hoeing	No.			0.1650				
5.26	Weeding-hoeing 2 times in hard soil		0.0350	11.1300	0.3300				
5.26.1	Wages for 1st weeding-hoeing in hard soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0210	6.6780		17050.00	113859.9	0	113859.9
5.26.2	Material (10 gm urea per plant) for 1st weeding-hoeing	No.			0.1650	17050.00	0	2813.25	2813.25
5.26.3	Wages for 2nd weeding-hoeing in hard soil , application of 10 gm urea per plant, replacement of dead plants (weeding in 3 ft radius and hoeing in 1.5 ft radius)	No.	0.0140	4.4520		17050.00	75906.6	0	75906.6
5.26.4	Material (10 gm urea per plant) for 2nd weeding-hoeing	No.			0.1650	17050.00	0	2813.25	2813.25
5.27	Protection per day for (April to March - 365 days)						0	0	0
5.27.1	0 - 30 ha	Persons X Days	1.0000	318.0000		365.00	116070	0	116070
5.27.2	31 ha -60 ha	Persons X Days	2.0000	636.0000		0.00	0	0	0
5.27.3	60 ha - 90 ha	Persons X Days	3.0000	954.0000		0.00	0	0	0

<u>C-1</u>	<u>C-2</u>	<u>C-3</u>	<u>C-4</u>	<u>C-5</u>	<u>C-6</u>	<u>C-7</u>	<u>C-8</u>	<u>C-9</u>	<u>C-10</u>
5.27.4	> 90 ha	Persons X Days	4.0000	1272.0000		0.00	0	0	0
5.28	Trench repair	per chain	3.0000	954.0000		60.00	57240	0	57240
5.29	Contingency and Miscellaneous cost for signboards, photography, record keeping, monitoring, etc (max 2% of estimated cost)	Vr			368703.0000		0	7374.06	7374.06
	Total 2nd Year Maintenance Work								
FY-5	3rd YEAR MAINTENANCE OF PLANTATION						363076.5	13000.56	376077.0
5.30	Protection per day for (April to March - 365 days)								
5.30.1	0 - 60 ha	Persons X Days	1.0000	318.0000		365.00	116070	0	116070
5.30.2	61 ha - 120 ha	Persons X Days	2.0000	636.0000					
5.30.3	> 120 ha	Persons X Days	3.0000	954.0000					
5.31	Contingency and Miscellaneous cost for signboards, photography, record keeping, monitoring, etc (max 2% of estimated cost)	Vr			116070.0000		0	2321.4	2321.4
	Total 3rd Year Maintenance Work								
FY-6	4th YEAR MAINTENANCE OF PLANTATION						116070	2321.4	118391.4
5.30	Protection per day for (April to March - 365 days)								
5.30.1	0 - 60 ha	Persons X Days	1.0000	318.0000		365.00	116070	0	116070
5.30.2	61 ha - 120 ha	Persons X Days	2.0000	636.0000					
5.30.3	> 120 ha	Persons X Days	3.0000	954.0000					
5.31	Contingency and Miscellaneous cost for signboards, photography, record keeping, monitoring, etc (max 2% of estimated cost)	Vr			116070.0000		0	2321.4	2321.4
	Total 4th Year Maintenance Work								
FY-7	5th YEAR MAINTENANCE OF PLANTATION						116070	2321.4	118391.4
5.30	Protection per day for (April to March - 365 days)								
5.30.1	0 - 60 ha	Persons X Days	1.0000	318.0000		365.00	116070	0	116070

<u>C-1</u>	<u>C-2</u>	<u>C-3</u>	<u>C-4</u>	<u>C-5</u>	<u>C-6</u>	<u>C-7</u>	<u>C-8</u>	<u>C-9</u>	<u>C-10</u>
5.30.2	61 ha -120 ha	Persons X Days	2.0000	636.0000					
5.30.3	> 120 ha	Persons X Days	3.0000	954.0000					
5.31	Contingency and Miscellaneous cost for signboards, photography, record keeping, monitoring, etc (max 2% of estimated cost)	Vr			116070.0000		0	2321.4	2321.4
	Total 5th Year Maintenance Work								
FY-8	6th YEAR MAINTENANCE OF PLANTATION						116070	2321.4	118391.4
5.30	Protection per day for (April to March - 365 days)								
5.30.1	0 - 60 ha	Persons X Days	1.0000	318.0000		365.00	116070	0	116070
5.30.2	61 ha -120 ha	Persons X Days	2.0000	636.0000					
5.30.3	> 120 ha	Persons X Days	3.0000	954.0000					
5.31	Contingency and Miscellaneous cost for signboards, photography, record keeping, monitoring, etc (max 2% of estimated cost)	Vr			116070.0000		0	2321.4	2321.4
	Total 6th Year Maintenance Work								
FY-9	7th YEAR MAINTENANCE OF PLANTATION						116070	2321.4	118391.4
5.30	Protection per day for (April to March - 365 days)								
5.30.1	0 - 60 ha	Persons X Days	1.0000	318.0000		365.00	116070	0	116070
5.30.2	61 ha -120 ha	Persons X Days	2.0000	636.0000					
5.30.3	> 120 ha	Persons X Days	3.0000	954.0000					
5.31	Contingency and Miscellaneous cost for signboards, photography, record keeping, monitoring, etc (max 2% of estimated cost)	Vr			116070.0000		0	2321.4	2321.4
	Total 7th Year Maintenance Work								
FY-10	8th YEAR MAINTENANCE OF PLANTATION						116070	2321.4	118391.4
5.30	Protection per day for (April to March - 365 days)								
5.30.1	0 - 60 ha	Persons X Days	1.0000	318.0000		365.00	116070	0	116070

C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10
5.30.2	61 ha -120 ha	Persons X Days	2.0000	636.0000					
5.30.3	> 120 ha	Persons X Days	3.0000	954.0000					
5.31	Contingency and Miscellaneous cost for signboards, photography, record keeping, monitoring, etc (max 2% of estimated cost)	Vr			116070.0000		0	2321.4	2321.4
	Total 8th Year Maintenance Work						116070	2321.4	118391.4
	Grand Total						2379525	333589	2713115

नोट : — Certified that no plantation activities were done in this site for the past ten years. The proposed site falls in the hilly terrain of Munger Forest Division.

1	नैसर्गिक वनों का विकास अंतर्गत पौधों की आपसी दूरी 3 मी० X 3 मी० रखी जाए, अर्थात प्रति हेक्टर अधिकतम 1100 पौधों ही अनुमान्य होंगे प्राक्त्लन में पौधों की संख्या का प्रस्ताव देते समय cutback operation से प्राप्त होने वाले पौधों की संख्या को भी ध्यान में रखा जाए
2	Soil moisture conservation के कार्यों के प्रस्ताव के संबंध में सक्षम पदाधिकारी द्वारा कार्यस्थल का निरीक्षण कर कार्यों की सम्भावना के सम्बन्ध में संतुष्ट होने के पश्चात ही तकनीकी स्वीकृति प्रदान की जाए
3	पौधों की ऊंचाई कम से कम 2.0 फीट होगी
4	संपोषण वर्ष में लगातार 3 माह में उत्तरजीविता 80 प्रतिशत से कम होने पर सुरक्षा मजदूरों को बदल दिया जायेगा तथा भुगतान समानुपातिक होगा

Submitted by

T.s Granted for Rs. 2713115

ROF Lakhisarai

Munger Forest Division

Divisional Forest Officer.
Munger Forest Division, Munger.