

SCHEME PROPOSALS FOR RAISING OF PENAL COMPENSATORY AFFORESTATION SCHEME FOR  
DIVERSION OF FOREST LAND IN RESERVE FOREST FOR FORMATION OF ROAD FROM REDDYALLY TO KANAKANUR IN AZAMNAGAR RANGE IS IDENTIFIED IN KARIMNAGAR EAST FOREST DIVISION OF  
TELANGANA ( IN KARIMNAGAR EAST DIVISION) WARANGAL CIRCLE

Sl. No	Item of work	2016-17			2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			Grand total (Rs in lakhs)
		Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	Phy	Rate	Amount in lakhs	
I	Raising of Plantation																						0.571
	Advance Operation	2.197	26000	0.571																			1.281
	Raising of Plantation				2.197	58300	1.281																0.549
	1st Year Maint of Plantation							2.197	25000	0.549													0.352
	2nd Year Maint of Plantation										2.197	16000	0.352										0.110
	Plantation													2.197	5000	0.110							0.121
	3rd Year Maint of Plantation																2.197	5500	0.121				0.132
	4th Year Maint of Plantation																		2.197	6000			0.132
	5th Year Maint of Plantation																						3.115
	<b>SUB-TOTAL</b>			0.571			1.281			0.549			0.352			0.110			0.121				3.300
II	Purchase & Transportation of Tall seedlings				5000	70	3.500																2.000
III	Transportation of soils						2.000																4.450
IV	Erection of chainlink fencing			4.450																			0.920
V	Erection of RCC pillars with gate			0.920																			6.120
VI	Drilling of Borewell along with Solar pump with accessories			6.120																			5.000
VII	Construction of Supervisory Hut			5.000																			21.990
	<b>SUB-TOTAL</b>			16.490			5.500			0.000			0.000			0.000			0.000				25.105
	<b>TOTAL</b>			17.061			6.781			0.549			0.352			0.011			0.012				2.511
VIII	Overhead Misc Exp (10%)			1.706			0.678			0.055			0.035			0.121			0.133				0.145
	<b>GRAND TOTAL</b>			18.767			7.459			0.604			0.387			0.121			0.133				27.616

Area in Ha & Fin in lakhs

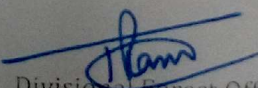
Divisional Forest Officer  
Karimnagar East Division

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## Advance Operation for Raising of NTSH Plantation 3 X 3 M. (SMM)

Sl. No	Item of work	Code	Qty	Rate	Units	Amount
1	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform by end of December.	02.08.01	1.00	311.04	Plantation	311
2	Clearing unsalable unwanted jungle growth ( <i>leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.</i> ); <b>Spreading</b> the cut material all over the site; and <b>Burning</b> the same twice till completely burnt. <i>The unsuitable area shall be excuded from the clearing operation and the expenditure shall be incurred for effective area only.</i> All the above operations shall be completed before December.					
a	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	02.08.04	1.00	5207.65	Ha.	5208
3	<b>Uprootal of Stumps</b> (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrived encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. <i>The uprootal work can be carried out preferably through tender process.</i>					
a	<b>Light Jungle Growth</b> (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO	02.08.07	1.00	10965.25	Ha.	10965
4	<b>Collection and Removal of Uprooted Stumps</b> of all sizes, other debris etc., to outside the plantation site.					
a	<b>Light Jungle Growth</b> (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	02.08.10	1.00	8585.68	Ha.	8586
5	LS for unforeseen item of work					930
	<b>For 2016-17</b>					<b>26000</b>

  
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UNIT COST 1.00 Ha


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Raising of NTSH Plantation 3x3M (Semi Mechanical Method)

No.	Item of work	FSR Item No.	Qty	Rate	Rate incl. 20% IAA	Per	Amount
1	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough (FOR UNTILLED AREA) - to be completed by 15th of June						
	Hard soils like gravel and morum	02.09.02	1	4510.05	5412.06	Ha	5412
2	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	02.09.04	1	853.42	1024.10	Ha	1024
3	Alignment and staking including laying base line for Misc with espacement 3m x 3m (1111 Nos)	02.09.07	1111	74.20	89.04	100	989
4	Cost of 0.45 M stake preparation and transportation to site	02.09.09	1111	47.30	56.76	100	631
5	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil (Digging of 45 cm cube pits)	02.09.11	1111	8.84	10.61	each	11785
6	Transportation of bag plants from nursery site to plantation site including loading and unloading (6x12 bag size) Total:60 KMs						
	Upto 5 KMs	02.09.13	1111	96.79	96.79	100	1075
	For every extra km beyond 5 km upto 25 km (20 Kms)	02.09.16	1111	67.60	67.60	100	751
	For every extra km beyond 25 km (with prior written approval of Circle Head) (35 Kms)	02.09.19	1111	59.15	59.15	100	657
7	Internal transportation of bag plants to planting points on head loads	02.09.22	1111	76.25	91.50	100	1017
8	Planting bag plants (45cmx45cmx45cm pits)	02.09.27	1111	363.37	436.04	100	4844
9	Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	02.09.31	1111	103.79	124.55	100	1384
10	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. ( during Nov - Dec.)	02.09.32	1111	545.08	654.10	100	7267



	Item of work	FSR Item No.	Qty	Rate	Rate incl. 20% IAA	Per	Amount
11	Replacement of Casualties 20% (Bag plants) ( $1111 \times 20\% = 222$ Nos)	02.09.29					
	Pitting (50% rate)	02.09.11	222	442.00	530.40	100	1177
	Planting (50% rate)	02.09.27	222	181.69	218.02	100	484
	Transportation: Upto 5 KMs (50% rate)	02.09.13	222	48.40	51.85	100	115
	Above 5 KMs (55 Kms) (50% rate)	02.09.16	222	33.80	99.00	100	220
	Internal transportation (50% rate)	02.09.22	222	38.13	45.75	100	102
12	Inter-ploughing (during November) the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough (Hard gravelly soil)	02.09.34	1.00	2810.70	2810.70	Ha	2811
13	Cost of Chemical fertilisers	02.09.25	1111	As per actuals			2222
14	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application.	02.09.30	1111	32.62	39.14	100	435
15	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. ( $7500 \times 9M = 67500/30 = 2250$ )	02.09.38	1	2250	2250	PM	2250
16	Uprootal of Mahaveera ( <i>Hyptis suaveolens</i> ) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing.	02.09.36	1.00	3032.48	3638.98	Ha	3639
17	LS for unforeseen item of work						2709
	For 2016-17						53000
	For 2017-18 (inclu 10% Esca. Charges)						58300

  
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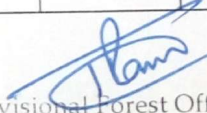
UNIT COST 1.00 Ha

1st Year maintenance of NTSB Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Rate incl. 20% IAA	Unit	Amount
1	Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The planting shall be completed by 15th of July.	02.10.01					
	Planting - 100% rate	02.09.27	278	363.37	436.04	100	1212
	Upto 5 KMs	02.09.13	278	96.79	96.79	100	269
	For every extra km beyond 5 km upto 25 km (20 Kms)	02.09.16	278	67.60	67.60	100	188
	For every extra km beyond 25 km (with prior written approval of Circle Head) (35 Kms)	02.09.19	278	59.15	59.15	100	164
	Internal transport ation-100% rate	02.09.22	278	76.25	91.50	100	254
2	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	02.10.02	1111	103.79	124.55	100	1384
3	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec	02.10.03	1111	545.08	654.10	100	7267
4	Uprootal of Mahaveera ( <i>Hyptis suaveolens</i> ) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	02.10.04	1	3032.48	3638.98	Ha	3639
5	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	02.10.05	1	2048.90	2048.90	Ha	2049
6	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	02.10.06	1	103.19	123.83	Ha	124

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<p>Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. (7500x12M=90000/30=3000)</p>		02.10.08	1	3000	3000	PM	3000
8	LS for unforeseen item of work						900
	For 2016-17						20450
	For 2017-18 (inclu 10% Esca. Charges)						22495
	For 2018-19 (inclu 10% Esca. Charges)						24745
						OR	25000

  
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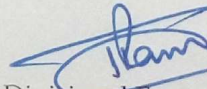


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UNIT COST 1.00 Ha

2nd Year maintenance of NTSH Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Rate incl. 20% IAA	Unit	Amount
1	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	02.11.01	1111	545.08	654.10	100	7267
2	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	02.11.02	1111	103.19	123.83	100	1376
3	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. (7500x12M=90000/30=3000)	02.11.04	1	3000	3000	PM	3000
4	LS for unforeseen item of work						357
	For 2016-17						12000
	For 2017-18 (inclu 10% Esca. Charges)						13200
	For 2018-19 (inclu 10% Esca. Charges)						14520
	For 2019-20 (inclu 10% Esca. Charges)						15972
						OR	16000


  
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UNIT COST 1.00 Ha

3rd Year maintenance of NTSH Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Rate incl. 20% IAA	Unit	Amount
1	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. (7500x12M=90000/30=3000)		1	3000	3000	PM	3000
2	LS for unforeseen item of work						357
	For 2016-17						3357
	For 2017-18 (inclu 10% Esca. Charges)						3693
	For 2018-19 (inclu 10% Esca. Charges)						4062
	For 2019-20 (inclu 10% Esca. Charges)						4468
	For 2020-21 (inclu 10% Esca. Charges)						4915
						OR	5000

  
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UNIT COST 1.00 Ha

4th Year maintenance of NTSH Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Rate incl. 20% IAA	Unit	Amount
1	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. (7500x12M=90000/30=3000)		1	3000	3000	PM	3000
2	LS for unforeseen item of work						357
	For 2016-17						3357
	For 2017-18 (inclu 10% Esca. Charges)						3693
	For 2018-19 (inclu 10% Esca. Charges)						4062
	For 2019-20 (inclu 10% Esca. Charges)						4468
	For 2020-21 (inclu 10% Esca. Charges)						4915
	For 2021-22 (inclu 10% Esca. Charges)						5406
						OR	5500

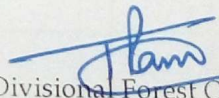
  
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UNIT COST 1.00 Ha

5th Year maintenance of NTSH Plantation

Sl. No	Item of work	FSR Code	Qty	Rate	Rate incl. 20% IAA	Unit	Amount
1	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. (7500x12M=90000/30=3000)		1	3000	3000	PM	3000
2	LS for unforeseen item of work						357
	For 2016-17						3357
	For 2017-18 (inclu 10% Esca. Charges)						3693
	For 2018-19 (inclu 10% Esca. Charges)						4062
	For 2019-20 (inclu 10% Esca. Charges)						4468
	For 2020-21 (inclu 10% Esca. Charges)						4915
	For 2021-22 (inclu 10% Esca. Charges)						5406
	For 2022-23 (inclu 10% Esca. Charges)						5947
						OR	6000

  
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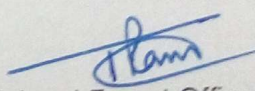


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**DETAILED AND ABSTRACT ESTIMATE**

Name of the Work: Drilling of Borewell along with 5 HP Submersible Motor with accessories at  
Kannala

Sl. No	Description of work	No	L	B	D	Qty	Rate	Unit	Amount
	<b>Drilling of Borewell</b>								
1	Drilling 6 1/2" Borewell in all strata including fixing Casing pipes etc., complete (Rate as per Joint Collector, Karimnagar Proc.No.HD/Drilling of Borewells/2014-15, dt:24.02.2015)	1x1	-	-	-	100.00	439.00	1 Rmt	43900
2	Cost of PVC pipe 180 mm / 6 Kg Sqm for casing including CED & VAT (As per CSSR 2015-16 vide Page No.60)	1x1	-	-	-	20.00	604.00	1 Rmt	12080
3	Supply and Delivery of 32 mm dia 12.50 kg HDPE pipe	1x1	-	-	-	100.00	74.00	1 Rmt	7400
	<b>SUPPLY AND INSTALLATION OF 5 HP SOLAR WATER PUMPING SYSTEM</b>								
4	Solar Modules	1x1				20.00	13500.00	each	270000
5	Kirloskar Solar Submersible 5 HP Pump	1x1				1.00	64000.00	each	64000
6	Kirloskar Jalverter J2.9	1x1				1.00	74000.00	each	74000
7	3 way tracking hot dip Galvanized Module mounting structure	1x1				1.00	64000.00	each	64000
8	Jalverter Box	1x1				1.00	8500.00	each	8500
9	Transportation	1x1				1.00	9000.00	each	9000
10	2.5 Sqmm Cables	1x1				1.00	10500.00	each	10500
11	Earthing Kit	1x1				1.00	4500.00	each	4500
12	Civil work								5000
13	Pipes								15000
14	Errrection, Installation and Commissioning								24000
							<b>TOTAL</b>		<b>611880</b>

  
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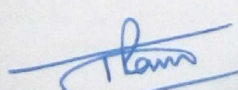


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DETAILED CUM ABSTRACT ESTIMATE

Name of the work: Errection of Iron chain link mesh(585 Rmt) along with Cement poles around the plantation at  
Kannala Beat:Kannala, Section:Ramagundam, Range:Manthani

Sl. No.	Description of work	Nos	Measurements			Qty	Rate	Per	Amount	
			L	B	D/H					
	Length 585 Mtrs Esp pole to pole:3.00 Mts (585/3.00=195 Nos+ 15 Support=210 Nos)									
1	Supplying , fitting and placing Mild steel bar reinforcement complete as per drawings and technical specifications for bars below 36mm dia including over laps and wastage,where they are not welded including cost and conveyance of steel , binding wire etc., lifting charges of steel , placing in position, tying with binding wire , all tools etc., and the complete for finished item of work.									
	Fencing Cement poles:8 mm dia bars									
	Per pole: 4 Nos: 4x2.20=8.80x210=1848 Rmt x0.39=720.72 or 721 Kgs		1x210			721.00				
	Stirrups:Per pole 6Nos:6x0.35=2.10x210=441 Rmtx0.219=96.57 or 97 Kgs		1x210			97.00				
						818.00	38.45	Kgs	31452	
2	RCC M-20 Nominal mix (Cement: Fine aggregate: Course aggregate) Using 20mm size graded machine crushed Hard Granite Metal (Coarse aggregate) including cost and conveyance of all material like cement, sand, coarse aggregate water etc., to site including labour charges etc., complete but excluding cost of steel and its fabrication charges for finished item of work									
	Fencing Cement poles	1x210	0.12	0.12	2.20	6.653				
						6.653	8487.18	Cum	56464	
3	Earth work excavation for foundation in loamy and clayey soil like BC,Red earth and OG soils etc, complete									
	Fencing Cement poles	1x195	0.30	0.30	0.60	10.530				
	Support poles	1x15	0.30	0.30	0.30	0.405				
						10.935	112.84	Cum	1234	
4	Plain Cement concrete (1:6:10) using 40 mm size HG metal including cost and conveyance of all material and labour charges etc., complete BLD-CSTN-3-8									
	Fencing Cement poles	1x195	0.30	0.30	0.60	10.530				
	Support poles	1x15	0.30	0.30	0.30	0.405				
						10.935				
	Deduct Pole size	1x195	0.12	0.12	0.60	1.685				
	Support poles	1x15	0.12	0.12	0.30	0.065				
						1.750				
						9.185	3128.63	Cum	28738	
5	Supply and fixing of Hot dipped Galvanised iron Chainlink mesh size 76x76 MM-8 guage including Transportation and labour charges etc complete (3"x3" - 8 Guage) including fixing charges									
	Around the Park	1x1	585		1.50	877.50	366.40	Sqm	321516	
6	LS for unforeseen item of work									5597
	TOTAL									445000

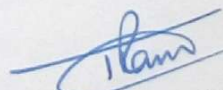
  
 Divisional Forest Officer  
 Karimnagar East Division



# DETAILED CUM ABSTRACT ESTIMATE

Name of the work: Construction of RCC Gate pillars with Iron Gate

No.	Description of work	Nos	Measurements			Qty	Rate	Per	Amount
			L	B	D/H				
1	Supplying, fitting and placing Mild steel bar reinforcement complete as per drawings and technical specifications for bars below 36mm dia including over laps and wastage, where they are not welded including cost and conveyance of steel, binding wire etc., lifting charges of steel, placing in position, tying with binding wire, all tools etc., and the complete for finished item of work.								
	Gate Pillars								
	12 mm dia bars: Mesh: pillars 3 Nos: 18x1.1=19.80 Rmt x0.878=17.38 or 18.00 Kgs		3x1			18.00			
	6 mm dia bars: Stirrups: 33x1.10=36.30 Rmt x0.21=7.62 or 8.00 Kgs		3x1			8.00			
	12 mm dia bars: Columns: 12Nosx3.50=42.00 Rmt x0.878=36.87 or 37.00 Kgs		3x1			37.00			
						63.00	38.45	Kgs	2422
2	Earth work excavation for foundation in loamy and clayey soil like BC, Red earth and OG soils etc, complete								
	Gate Pillars	3x1	1.20	1.20	1.20	5.184			
						5.184	112.84	Cum	585
3	Reinforced Cement Concrete M-20 Nominal mix (Cement: Fine aggregate: Course aggregate) Using 20mm size graded machine crushed Hard Granite Metal (Coarse aggregate) including cost and conveyance of all material like cement, sand, coarse aggregate water etc., to site including labour charges etc., complete but excluding cost of steel and its fabrication charges for finished item of work for Gate Pillars								
	Footings	3x1	1.20	1.20	0.15	0.648			
	Pedestal	3x1	0.90+45/2	0.90+45/2	0.45	0.615			
						1.263	5724.45	Cum	7231
4	Reinforced Cement Concrete M-20 Nominal mix (Cement: Fine aggregate: Course aggregate) Using 20mm size graded machine crushed Hard Granite Metal (Coarse aggregate) including cost and conveyance of all material like cement, sand, coarse aggregate water etc., to site including labour charges etc., complete but excluding cost of steel and its fabrication charges for finished item of work for Columns								
	Columns	3x1	0.30	0.30	2.70	0.729	8487.18	Cum	6187
5	Supplying and fixing of gate (square pipes) of size 13.5'x6.5' including painting two coats of enamel paint cost and conveyance of all materials to work site and labour charges etc. complete for finished item of work (Qty to be charges based the weighment)								
	Main gate (13.5'x6.5') Double shutters	1x1				350	147.00	kg	51450
						As per quotation			
	Small gate (4'x6.5') Single shutter	1x1				150	147.00	kg	22050
						As per quotation			
6	LS for unforeseen item of work								2075
	TOTAL								92000

  
 Divisional Forest Officer  
 Karimnagar East Division