

**GOVERNMENT OF ANDHRA PRADESH
FOREST DEPARTMENT**

Rc.no.841/2019/TO,
Dated:02.03.2023

O/o Chief Conservator of Forests & Field Director,
Project Tiger Circle, Srisailam.

**Sri Y.Srinivasa Reddy, IFS.,
Chief Conservator of Forests & Field Director (FAC)**

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Sub: FD - Forest (C) Act, 1980 - M/s Reliance Jio Infocomm Ltd.,
Visakapatnam - Laying of Optical Fiber Cable along the road within in
the right of way (RoW) passing through forest under WL Markapur
Division over an extent of 0.15 Ha. for providing 4G Communications in
the State of Andhra Pradesh - Request for administrative approval of CA
Scheme - approval accorded- Reg.


Ref: 1.Prl.CCF,AP,Guntur, Rc.no.EFS02-15032/1/2022-FCA(ii),dt.25.11.2022.
2. DD,PT, Markapur Rc.no.539/2022/DM, dated: 22.02.2023.

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Personal attention of the Deputy Director, Project Tiger, Markapur is invited to
the reference 2nd cited.

It is informed that, the Deputy Director, Project Tiger, Markapur has submitted
the Scheme proposals for Afforestation and maintenance of Compensatory
Afforestation area of extent 1.00 ha. identified in degraded forest land in
Compt.no.175 of ENB-X RF, Komarolu Beat, Y.Palem Section of Y.Palem Range of
Project Tiger, Markapur. The administrative approval for the Compensatory
Afforestation Scheme is hereby accorded for **Rs.5.60 Lakhs** (Rupees Five lakhs sixty
thousands) on the responsibility of the Deputy Director, Project Tiger, Markapur.

The Deputy Director, Project Tiger, Markapur is requested to take further
necessary action as per the instructions issued by the Prl. Chief Conservator of
Forests and Head of Forest Force, Andhra Pradesh, Guntur and GOI guidelines issued
from time to time and upload the CA scheme details in PARIVESH web portal and
report compliance.


Chief Conservator of Forests & Field Director (FAC)
Project Tiger Circle, Srisailam.

To
The Deputy Director,
Project Tiger,
Markapur.

**GOVERNMENT OF ANDHRA PRADESH
FOREST DEPARTMENT**

From
Sri. Vignesh Appavu G, I.F.S.,
Deputy Director,
Project Tiger, Markapur.

To
The Chief Conservator of Forests &
Field Director, Project Tiger Circle,
Nandyala.

Rc.No.539/2022/DM, Dated:22.02.2023.

Sir,

Sub:- APFD – PT, Markapur – F (C) Act, 1980 – M/s Reliance Jio Infocomm Ltd. Visakhapatnam – Laying of Optical Fiber Cable along the road within the right of way (RoW) passing through forest under WL Markapur Division over an extent of 0.15 Ha. for providing 4G Communications in the State of Andhra Pradesh– DGPS survey permission accorded submission of Maps and CD's –Request for administrative approval of CA Scheme – Report Submission of – Regarding.

- Ref:-
- 1) PCCF (HoFF), A.P, Guntur Rc.no.10611/2017/FCA-1, Dated:11.01.2018 & 15.03.2018.
 - 2) CCF & FDPT, Srisailam Rc.No.157/2018/TO, Dated:21.02.2018.
 - 3) DFO(WL) Markapur Rc.No.67/2018/DM Dated:24.05.2018.
 - 4) DFO(WL) Markapur Rc.No.67/2018/DM Dated:09.07.2018.
 - 5) CCF & FDPT, Srisailam Rc.No.157/2018/TO, Dated:29.09.2018.
 - 6) PCCF (HoFF),A.P,Guntur Rc.no.10611/2017/FCA-1 Dt. 01.11.2018
 - 7) PCCF (WL) & CWLW, AP, Guntur Rc.No.EFS02-21024/7/2018 – Wildlife SEC PCCF Dated:09.11.2018.
 - 8) PCCF(HoFF), AP Guntur Rc.no.10611/2017/FCA, Dt.12.11.2018
 - 9) PCCF (HoFF), A.P, Guntur Rc.no.EFS02 – 15026/9/2019/ FCA SEC/PCCF/FCA-1, Dated:21.03.2019.
 - 10) CF & FDPT, Srisailam Rc.No.841/2019/TO, Dated:21.08.2019 & 23.07.2020.
 - 11) PCCF & HoFF, A.P, Guntur Rc.no.EFS02-15032/1/2022 FCA(ii) Dt. 25.11.2022.

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Adverting to the references cited it submitted that the Principal Chief Conservator of Forests (Head of Forest Force), AP, Guntur and Chief Conservator of Forests / Field Director, Project Tiger Circle, Srisaiaam have accorded permission vide reference 1st & 2nd cited, for conducting DGPS Survey regarding subject Project, " Laying of Optical Fiber Cable along the road within the right of way (RoW) passing through forest under WL Markapur Division over an extent of 0.15 Ha" by M/s Reliance Jio Info comm Ltd., Visakhapatnam and issued instructions to submit survey maps, RAW Data for verification and authentication.

2) Later, necessary instructions were issued to the Forest Range Officer, V P South and User Agency to conduct DGPS Survey and submit Maps etc., vide ref. 3rd cited and the FRO, has submitted DGPS Maps along with CDs containing Field Data and the same were submitted to the Chief Conservator of Forests / Field Director,

Contd. P2

Project Tiger Circle, Srisaia vide ref. 4th cited and in turn the Chief Conservator of Forests has submitted the same to the Principal Chief Conservator of Forests for verification and authentication vide ref. 5th cited and as per instructions of the Principal Chief Conservator of Forests vide ref. 6th to 8th cited, the user Agency has paid an amount of Rs. 3,000/- (Rupees three thousands only) towards user charges for verification and authentication of maps

3) The Principal Chief Conservator of Forests has informed vide ref. 9th cited that, the user agency have been uploaded the part –I proposals in Parivesh portal and also instructed the User Agency to submit 6 sets of proposals hard copies to the Divisional Forest Officer, (WL) Markapur processing the same under Forest (Clearance) Act, 1980 and in view of above instructions, the user Agency, has submitted 6 sets hard copies of proposals to this office and on verification of the proposals, it is noticed that, total 75 Nos trees to be felled in the way of laying out OFC and the user agency has not submitted Compensatory Aforestation land details of aforesaid project.

4) In view of the instructions and as per hand book of guidelines chapter 2. Compensatory Afforestation, point 2.6, Provision for plantation of specified number of trees by way of CA in certain cases: the Forest Range Officer, Y.Palem was directed to submit the degraded forest land 01.00 ha approximately with details of land

(i) In the following cases, cost of plantation (including ten years maintenance) of ten times the number of trees likely to be felled or specified number of trees as may be specified in the order for diversion of forest land (subject to a minimum no. of 100 plants), shall be levied from the user agency towards compensatory afforestation.

(b) Diversion of forest land up to one hectare,

5) The Forest Range Officer, Y.Palem has identified the degraded forest land an extent of 01.00 ha in Compt No.175, ENB –X RF, Komarolu Beat, Y.Palem Section, Y.Palem Range of PT Markpur and the undersigned has issued permission for conducting DGPS survey in the said land for Compensatory Afforestation land and to submit DGPS survey maps along with RAW Data taking further action and the DGPS

survey maps along with RAW Data was received in this office / Dt. 21.02.2023 and the undersigned has verified the DGPS survey maps randomly and found to be correct. and also prepared the CA Scheme as per current FSR 2022-23 and found to be correct and sanctioned technical approval with financial outlay is Rs.5.60 Lakhs and Scheme is enclosed herewith for kind perusal. The details are as follows.

Sl.No	Name of the work	Funds to be deposited by the User Agency (Rs. in lakhs)
1	Afforestation & Maintenance of 1.00 ha degraded forest land CA Scheme.	5.60
Total Rs:		5.60

In view of the circumstances as explained above, it is requested that the CA Scheme may please be approved and also administrative sanction please be issued for the CA Scheme at the earliest for taking further course of action in the matter

This is submitted for favour of information and necessary action.

Encl: As above

Yours faithfully
Sd/- Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

Copy submitted to the Principal Chief Conservator of Forests & Head of Forest Force, AP, Mangalagiri, Guntur District for favour of information.

Copy submitted to the Chief Conservator of Forests & Field Director, Project Tiger Circle, Nandyal for favour of information.

Copy to the Managing Director, AP State Fiber limited, Vijayawada for information.

Copy to the Forest Range Officers, Dornal & Korrapolu for information.

Encl : As above

Sd/- Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//
N. Venkatareis
Superintendent 22/02/2023

Statement showing the scheme proposals for Compensatory Afforestation over 1.00 Ha proposed CA Land in Degraded Forest Area in compartment No:175 , ENB - X RF, Komorolu Beat, Y.Palem Section of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber private limited

(Rs.in Lakhs)

Sl. No	Name of the work	Unit cost		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		2030-31		2031-32		2032-33		2033-34		2034-35		Amount
		Per Ha./ No.	Rate	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
1	Raising of Nursery & Maintenance of Nursery	1	0.4202	1	0.420																							0.420
2	Advance operations	1	0.6050	1.0	0.605																							0.605
3	Raising of plantations	1	0.7139			1.0	0.713																					0.713
4	1st year maintenance	1	0.3634					1.0	0.363																			0.363
5	2nd year maintenance	1	0.3309							1.0	0.33																	0.330
6	3rd year maintenance	1	0.3124									1.0	0.312															0.312
7	4th year maintenance	1	0.0887											1.0	0.088													0.088
8	5th year maintenance	1	0.0974													1.0	0.097											0.097
9	6th year maintenance	1	0.1072															1.0	0.107									0.107
10	7th year maintenance	1	0.1179																	1	0.117							0.117
11	8th year maintenance	1	0.1297																			1	0.129					0.129
12	9th year maintenance	1	0.1427																					1	0.142			0.142
13	10th year maintenance	1	0.1569																							1	0.156	0.156
14	SMC (10%)	1	0.1056	5	0.528																							0.528
15	Administration Charges (20%)	1	0.8200	Ls	0.200	Ls	0.200	Ls	0.210	Ls	0.210																	0.820
16	Over head charges and Miscellaneous	Ls	0.6730									Ls	0.213	Ls	0.230	Ls	0.230											0.673
	Total				1.753		0.913		0.573		0.540		0.525		0.318		0.327		0.107		0.117		0.129		0.142		0.156	5.600

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//

N. Venkatesh
Superintendent
22/02/2013

**Statement showing the scheme proposals for Compensatory Afforestation over 1.00 Ha Proposed CA land in Degraded Forest Area in
Compartment No:175 of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber Private Limited**

Sl. No.	Name of the work	Quantity in Ha	Unit	Per	Rate (in Rupees)	Amount (in Lakhs)	Remarks
1	Raising of Nursery & Maintenance of Nursery	1	Ha	1	42020.00	0.420	2023-24
2	Advance operations	1	Ha	1	60500.06	0.605	2023-24
3	Raising of plantations	1	Ha	1	71390.00	0.713	2024-25
4	1st year maintenance	1	Ha	1	36336.00	0.363	2025-26
5	2nd year maintenance	1	Ha	1	33089.00	0.330	2026-27
6	3rd year maintenance	1	Ha	1	31243.00	0.312	2027-28
7	4th year maintenance	1	Ha	1	8869.00	0.088	2028-29
8	5th year maintenance	1	Ha	1	9744.00	0.097	2029-30
9	6th year maintenance	1	Ha	1	10718.00	0.107	2030-31
10	7th year maintenance	1	Ha	1	11790.00	0.117	2031-32
11	8th year maintenance	1	Ha	1	12969.00	0.129	2032-33
12	9th year maintenance	1	Ha	1	14266.00	0.142	2033-34
13	10th year maintenance	1	Ha	1	15693.00	0.156	2034-35
14	SMC Works (10%) - Boundary Pillars	5	No.s	1	10560.00	0.528	2023-24
15	Administative Charges (20%)	Ls	-	Ls	-	0.820	-
16	over head & Miscellaneous charges.					0.673	
	Grand Total:					5.600	

Sd/- Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//

N. Venkatarao
Superintendent 22/02/2023

Estimate for Raising of Primary Beds 4 Nos (1 Ha) Nursery unit cost for Proposed CA land in Degraded Forest Area in Compartment No:175 of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber Private Limited

Sl. No	Qty	Description of work with detailed specifications	FSR Item No.	Rate	Per	Amount
		Raising of Primary Beds of size 1x1x0.3m for raising of Eucalyptus, Bamboo and other Misc. species				
1	4 Beds	Preparation of New site - by clearing miscelaneous unvaivable Jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.	01-02-001	7.11	Per Bed	28
2	4 Beds	Digging soil to a depth of 30 cm (as per CSSR 2011-12)	01-02-003	52.74	Per Bed	211
3	4 Beds	Cost of sandy soil 50% of dugged quantity and transportation taken from private lands, with 5 kms lead loading and unloading charges by mannual means (Sandy soil and FYM. in 5:1 proprtion) 0.125 cum per bed (as per CSSR 2011-12).	01-02-004	43.25	Per Bed	173
4	0.10 Cum	Cost and transport of Farm yard manure (Sandy soil and FYM. in 5:1 proprtion) 0.025 cum per bed	01-02-005 01-03-005	1314.39	Cum	131
5	4 Beds	Preparation of soil mixture of red earth, sand and farm yard manure in 5:1 proportion and formation of bed by refilling the excavated portion of the bed and filling of bed.	01-02-006	14.74	Per Bed	59
6	4 Beds	Sowing of seed and covering the bed with hay including cost and conveyance to a thickness of 2.5 cm.	01-02-008	16.75	Per Bed	67
7	4 Beds	Watering the primary nursery beds with rose water cans for a maximum period of 2 months. Note:Watering the primary beds beyond 2 months especially in the case of North-East monsoon areas prior approval of the CF concerned is required. (3.3 beds x 2 Months = 6.6 beds)	01-02-009	18.79	Bed / Month	75
8	4	Weeding the primary beds maximum of 2 times Note: Weeding the primary beds more than 2 times prior approval of the CF concerned is required. (3.3 beds x 2 months = 6.6 beds)	01-02-010	2.81	Bed / Weed	11
9	Ls	Contingencies for cost of crow bars, preparation of Nursery Board, supply of drinking water etc.,	Actual	-	Ls	15
				TOTAL:->>		770

The estimate prepared based on the FSR 2022-23. Hence the estimate may kindly be sanctioned at an early date.

	Total cost for 2022-23	770.00
1	Add 10% for 2023-24 to 2021-22 cost	847.00
2	Add 10% for 2024-25 to 2022-23 cost	931.70
3	Add 10% for 2025-26 to 2023-24 cost	1025.00
4	Add 10% for 2026-27 to 2024-25 cost	1128.00
5	Add 10% for 2027-28 to 2025-26 cost	1241.00
6	Add 10% for 2028-29 to 2026-27 cost	1365.00
7	Add 10% for 2029-30 to 2027-28 cost	1502.00
8	Add 10% for 2030-31 to 2028-29 cost	1652.00
9	Add 10% for 2031-32 to 2029-30 cost	1817.00
10	Add 10% for 2032-33 to 2030-31 cost	1999.00
11	Add 10% for 2033-34 to 2032-33 cost	2199.00
12	Add 10% for 2034-35 to 2033-34 cost	2419.00

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Marakpur

//T.C.B.O//

N. Venkatesh
22/02/2023
Superintendent

**Estimate for Raising and Maintenance of 1611 Nos per Ha Proposed CA land in Degraded Forest Area in Compartment No:175 of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber Private Limited.
(As per FSR 2022-23)**

Sl. No	Qty	Description of work with detailed specifications	FSR Item No.	Rate	Per	Amount
1	2 Beds	Clearing the site new site	01-05-001	71.86	Per Bed	143.72
2	1611 Nos	Cost and transport of ingredients for Potting mixture Red soil and clayey soil in 2:1 ratio (for 15 cm x 30 cm (6"x12") 2.15 cm)	01-05-005	745.08	1000 Nos	1200.32
3	1611 Nos	Preparation of seed Potting mixture Red soil and clayey soil in 2:1 by powdering of various ingredients, sieving and mixing them in the prescribed proportion, Opening the bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds	01-05-011	1804.07	1000 Nos	2906.36
4	17 Kg	Cost of Polythene bags 1833 x 20% = 1933 Nos/115 Nos per KG = 16.8 or 17 Kgs (Rate adopted as per tender rate during 2020-21)	01-05-013	136.88	Kg	2326.96
5	1611 Nos	Pricking out the seedling from primary beds and transplanting in bags	01-05-016	191.07	1000 Nos	307.81
6	1.611 Beds	Watering the plants twice a day (2 Months) (1333 x 2 m)	01-05-020	441.46	Per Bed /Month	1422.38
7	1.611 Beds	Shifting and grading and rearranging in beds (1333 x 4)	01-05-023	312.12	Bed / Shift	2011.30
8	1.611 Beds	Cost of chemicals, Insecticides, Pesticides etc.,	01-02-025	Actuals	-	500.00
9	Ls	Cost of cow dung slurry	01-05-033	Actuals	-	500.00
10	1611 Nos	Application of cow dung slurry at the rate of 100 ml to 250 ml per plant depending upon the size of the plant monthly twice maximum of 3 times (Once in raising and two times in maintenance) Note: Watering should not be done 12 hours before and after application of cow dung slurry (1333 x 3 times)	01-05-034	282.78	1000 Nos / time	455.56
11	1.611 Beds	Watering the plants for 10m x 1m size bed (2600-4" x 7" bags; 1700-5"x9" bags; 1100-6"x12" bags and 800-8"x12" bags) (1333 x 10 M)	01-05-028	441.46	Bed / month	7111.92
12	25 RMT	Brush wood fencing the nursery site	01-05-039	38.35	RMT	958.75
13	25 RMT	Maintenance of brush wood fencing the nursery site	01-05-040	12.80	RMT	320.00
14	1611 Nos	Cost of tar coated bamboo stakes of 2.00 mt length and 2.50 cm breadth	01-05-042	10.02	Each	16142.22
15	1611 Nos	Fixing of support stakes to the seedlings	01-05-043	570.16	1000 Nos	918.53
16	4 Beds	Raising of Primary beds	-	-	-	847.00
17	Ls	Contingency	Actual	-	Ls	127.16
TOTAL:->>						38200.00

The estimate prepared based on the FSR 2022-23. Hence the estimate may kindly be sanctioned at an early date.

	Total cost for 2022-23	38200.00
1	Add 10% for 2023-24	42020.00
2	Add 10% for 2024-25	46222.00
3	Add 10% for 2025-26	50844.20
4	Add 10% for 2026-27	55929.00
5	Add 10% for 2027-28	61522.00
6	Add 10% for 2028-29	67674.00
7	Add 10% for 2029-30	74441.00
8	Add 10% for 2030-31	81885.00
9	Add 10% for 2031-32	90074.00
10	Add 10% for 2032-33	99081.00
11	Add 10% for 2033-34	108989.00
12	Add 10% for 2034-35	119888.00

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//

N. Venkatesh
Superintendent
22/02/2023

Estimate for Advance Operation for 1.00 Ha. Proposed CA land in Degraded Forest Area in Compartment No:175 of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber Private Limited

Sl. No.	Qty	Details of work	FSR item No.	Rate	Per	Amount
		SMM Method (1 Ha.)				
1	1	Survey with GPS (Only staff to carry out. One mandy is allowed for assistance) (RSSR 2013-14)	02-05-001	580	Plantation	580.00
2	1 Ha.	Preparation of site for planting by clearing thorny unsaleable, unusable jungle growth, creepers, bushes etc., spreading the cut material all over the site and burning the same medium jungle growth	02-05-005	11198.92	Ha.	11198.92
3	1 Ha.	Uprootal of stumps to a depth of 45 cm (excluding unsuitable patches) with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal and leveling. medium jungle growth	02-05-010	28283.72	Ha.	28283.72
4	1 Ha.	Collection and removal of uprooted stumps of all sizes, other debris etc., to outside the plantation site. medium jungle growth	02-05-014	14628.41	Ha.	14628.41
5	Ls	Contingency 10%	Actual	-	-	309.00
		Total:				55000.05

The Estimate prepared based on the FSR 2022-23 and actual rates. Hence the Estimate may kindly be sanctioned at an early date.

	Total cost for 2022-23	55000.05
1	Add 10% for 2023-24	60500.06
2	Add 10% for 2024-25	66550.06
3	Add 10% for 2025-26	73205.00
4	Add 10% for 2026-27	80526.00
5	Add 10% for 2027-28	88579.00
6	Add 10% for 2028-29	97437.00
7	Add 10% for 2029-30	107181.00
8	Add 10% for 2030-31	117899.00
9	Add 10% for 2031-32	129689.00
10	Add 10% for 2032-33	142658.00
11	Add 10% for 2033-34	156924.00
12	Add 10% for 2034-35	172616.00

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

/T.C.B.O//


Superintendent 22/02/2023

Estimate for Raising of 1.00 Ha. Proposed CA land in Degraded Forest Area in Compartment No:175 of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber Private Limited

Sl. No	Qty	Description of work with detailed specifications	FSR Item No.	Rate	Per	Amount
		Deep ploughing the plantation area to a depth of 30 cm with heavy duty tractor of 45 HP and above across the slope with mould board plough (Untilled areas)				
2	1 Ha.	Hard /Gravelly Soils	02-05-020	7263.38	Ha.	7263.38
3	1 Ha.	Removing congestion of root suckers and other uprooted material hindering the effective ploughing (For non-tilled areas only)	02-05-024	1245.09	Ha.	1245.09
4	50 RMT	Formation of sector lines/ inspection paths/ fire lines of a width of 3m by giving surface treatment (sector to be in conformity with slope direction). All stumps to be cut to ground level. Applicable for plantations other than Semi Mechanicle Plantaion.	02-05-006	7.89	RMT	394.50
5	1111 Nos	Alignment and staking including laying base line for Misc speacies with espacement 3mX3m (1111 Nos)	02-06-003	108.16	100 Nos	1201.66
6	1111 Nos	Cost of 0.45M Stake preparation and transportation to site.	02-06-005	70.42	100 Nos	782.37
7	1111 Nos	Digging of 45 cm. cube pits in ploughed areas	02-06-027	11.89	Each	13209.79
8	1111 No.s	Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading upto 5 Km lead 15X30cm (6"X12") bag plants and beyond 5 Kms lead upto 5 Kms = 185.09 extra 25 Kms = <u>162.25</u> <u>347.34</u>	02-06-009 02-06-014	347.34	100 No.s	3858.95
10	1111 No.s	Internal transport of bag plants/root trainers to planting points on head loads. 15X30cm (6"X12") bag plants	02-06-019	118.73	100 No.s	1319.09
11	1111 No.s	Planting bag plants 45cmX45cmX45 cm pits	02-06-034	565.54	100 No.s	6283.15
12	55 Kgs	Cost of Chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP after planting for 30 cm ³ & 45 cm ³ pits).	02-06-031	30.00	Actal per Kg	1650.00
13	1111 No.s	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar . 10 cmts away from plant amd putting fertilizers and closing	02-06-032	50.79	100 No.s	564.28
		Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance)				
14	222 Nos	Digging of 45 cm. cube pits in ploughed areas	02-06-036	5.9450	Each	1319.79

Sl. No	Qty	Description of work with detailed specifications	FSR Item No.	Rate	Per	Amount
15	222 Nos	Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading upto 5 Km lead 15X30cm (6"X12") bag plants and beyond 5 Kms lead upto 5 Kms = 185.09 extra 25 Kms = <u>162.25</u> 347.34	02-06-009 02-06-014	347.34	100 No.s	771.09
16	222 No.s	Internal transport of bag plants/root trainers to planting points on head loads. 15X30cm (6"X12") bag plants	02-06-019	118.73	100 No.s	263.58
17	222 No.s	Planting bag plants 45cmX45cmX45 cm pits	02-06-034	565.54	100 No.s	1255.50
18	1111 No.s	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard soils.	02-06-041	848.32	100 No.s	9424.84
19	1 Ha.	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-06-045	4841.54	Ha.	4841.54
20	1 Ha.	Coppice cutting (Low rainfall zone <800 mm)	02-06-047	1261.06	Ha.	1261.06
21	1111 Nos	Pruning of lower foliage / branches of NTFP species like Kanuga, Neem etc., upto 1/3rd height	02-06-050	160.56	100 Nos	1783.82
22	Ls	Contingencies like board, drinking of water, sharpening of tools, Journals etc.	Actual	-	10% of total cost	306.53
		TOTAL:-				59000.00

The estimate prepared based on the FSR 2022-23 and actual rates. Hence the estimate may kindly be sanctioned at an early date.

	Total cost for 2022-23	59000.00
1	Add 10% for 2023-24	64900.00
2	Add 10% for 2024-25	71390.00
3	Add 10% for 2025-26	78529.00
4	Add 10% for 2026-27	86382.00
5	Add 10% for 2027-28	95020.00
6	Add 10% for 2028-29	104522.00
7	Add 10% for 2029-30	114974.00
8	Add 10% for 2030-31	126471.00
9	Add 10% for 2031-32	139118.00
10	Add 10% for 2032-33	153030.00
11	Add 10% for 2033-34	168333.00
12	Add 10% for 2034-35	185166.00

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//

N. Venkatarao
22/02/2023
Superintendent

Estimate for 1st year Maintenance of 1.00 Ha. Proposed CA land in Degraded Forest Area in Compartment No:175 of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber Private Limited

Sl. No	Quantity	Item of work	FSR item No.	Rate in Rs.	Per	Amount
		Replacement of Casualties @ 25% in 1st year 100% of rate during maintenance years. Planting, Transportation and internal transportation as prescribed above.				
		Digging of pits in ploughed areas				
1	278 No.s	Digging of 45 cm. cube pits	02-06-027	11.89	Each	3305.42
2	278 No.s	Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading upto 5 Km lead 15X30cm (6"X12") bag plants and beyond 5 Kms lead upto 5 Kms = 185.09 extra 25 Kms = <u>162.25</u> 347.34	02-06-009 02-06-014	347.34	100 No.s	965.61
3	278 No.s	Internal transport of bag plants/root trainers to planting points on head loads. 15X30cm (6"X12") bag plants	02-06-019	118.73	100 No.s	330.07
4	10 Kgs	Cost of chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP for replacement of casualties)	02-07-002	30.00	As per actuals	300.00
5	278 Nos	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar . 10 cmts away from plant amd putting fertilizers and closing	02-07-003	50.79	100 No.s	141.20
6	278 No.s	Planting bag plants 45cmX45cmX45 cm pits	02-06-034	565.54	100 No.s	1572.20
7	1 Ha.	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in tilled areas in hard soils	02-07-006	4841.54	Ha.	4841.54
8	1111 Nos	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard soils.	02-07-011	848.32	100 Nos	9424.84
9	400 RMT	Creation of Fire lines 3 mts wide	02-07-014	7.89	RMT	3156.00
10	1	Coppice cutting (Low rainfall zone <800 mm)	02-06-047	1261.06	Ha.	1261.06
11	1111 Nos	Pruning of lower foliage / branches of NTFP species like Kanuga, Neem etc., upto 1/3rd height	02-06-050	160.56	100 Nos	1783.82
12	Ls	Contingency	02-07-018	-	Ha.	218.25
		Total>>				27300.00

The Estimate prepared based on the FSR Rates 2022-23. Hence the estimate may kindly be sanctioned at an early date.

	Total cost for 2022-23	27300.00
1	Add 10% for 2023-24	30030.00
2	Add 10% for 2024-25	33033.00
3	Add 10% for 2025-26	36336.00
4	Add 10% for 2026-27	39970.00
5	Add 10% for 2027-28	43967.00
6	Add 10% for 2028-29	48364.00
7	Add 10% for 2029-30	53200.00
8	Add 10% for 2030-31	58520.00
9	Add 10% for 2031-32	64372.00
10	Add 10% for 2032-33	70809.00
11	Add 10% for 2033-34	77890.00
12	Add 10% for 2034-35	85679.00

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//

N. Venkatarao
Superintendent 22/02/2023

Estimate for 2nd year Maintenance of 1.00 Ha. Proposed CA land in Degraded Forest Area in Compartment No:175 of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber Private Limited

Sl. No	Quantity	Item of work	FSR item No.	Rate in Rs.	Per	Amount
1	40 Kgs	Cost of chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP for replacement of casualties)	02-08-001	30.00	As per actuals	1200.00
2	1111 Nos	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar . 10 cmts away from plant amd putting fertilizers and closing	02-08-002	50.79	100 No.s	564.28
3	1 Ha.	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in tilled areas in hard soils	02-08-008	4841.54	Ha.	4841.54
4	1111 Nos	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in ordinary soils.	02-08-004	848.32	100 Nos	9424.84
5	400 RMT	Creation of Fire lines 3 mts wide	02-08-012	7.89	RMT	3156.00
6	1	Coppice cutting (Low rainfall zone <800 mm)	02-08-010	1261.06	Ha.	1261.06
7	1111 Nos	Pruning of lower foliage / branches of NTFP species like Kanuga, Neem etc., upto 1/3rd height	02-08-015	160.56	100 Nos	1783.82
8	Ls	Contingency	Actuals	-	Ha.	368.47
		Total>>				22600.00

The Estimate prepared based on the FSR Rates 2022-23. Hence the estimate may kindly be sanctioned at an early date.

	Total cost for 2022-23	22600.00
1	Add 10% for 2023-24	24860.00
2	Add 10% for 2024-25	27346.00
3	Add 10% for 2025-26	30080.60
4	Add 10% for 2026-27	33089.00
5	Add 10% for 2027-28	36397.90
6	Add 10% for 2028-29	40037.69
7	Add 10% for 2029-30	44041.46
8	Add 10% for 2030-31	48445.60
9	Add 10% for 2031-32	53290.17
10	Add 10% for 2032-33	58619.18
11	Add 10% for 2033-34	64481.10
12	Add 10% for 2034-35	70929.21

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//

N. Venkatacil
Superintendent 22/02/2023

**Estimate for 3rd year Maintenance of 1.00 Ha. Proposed CA land in Degraded Forest Area in
Compartment No:175 of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber Private
Limited**

Sl. No.	Quantity	Item of work	FSR item No.	Rate in Rs.	Per	Amount
1	1 Ha.	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in tilled areas in hard soils	02-09-006	4841.54	Ha.	4841.54
2	1111 Nos	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard soils.	02-09-002	848.32	100 Nos	9424.84
3	400 RMT	Creation of Fire lines 3 mts wide	02-09-008	7.89	RMT	3156.00
4	1111 Nos	Pruning of lower foliage / branches of NTFP species like Kanuga, Neem etc., upto 1/3rd height	02-09-010	160.56	100 Nos	1783.82
5	Ls	Contingency	Actuals	-	Ha.	193.80
		Total>>				19400.00

The Estimate prepared based on the FSR Rates 2022-23. Hence the estimate may kindly be sanctioned at an early date.

	Total cost for 2022-23	19400.00
1	Add 10% for 2023-24	21340.00
2	Add 10% for 2024-25	23474.00
3	Add 10% for 2025-26	25821.00
4	Add 10% for 2026-27	28403.00
5	Add 10% for 2027-28	31243.00
6	Add 10% for 2028-29	34367.00
7	Add 10% for 2029-30	37804.00
8	Add 10% for 2030-31	41584.00
9	Add 10% for 2031-32	45742.00
10	Add 10% for 2032-33	50316.00
11	Add 10% for 2033-34	55348.00
12	Add 10% for 2034-35	60883.00

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//

N. Venkata
Superintendent *22/02/2023*

**Estimate for 4th year Maintenance of 1.00 Ha. Proposed CA land in Degraded Forest Area in
Compartment No:175 of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber
Private Limited**

Sl. No	Quntity	Item of work	FSR item No.	Rate in Rs.	Per	Amount
1	400 RMT	Creation of Fire lines 3 mts wide	02-10-001	7.89	RMT	3156.00
2	1111 Nos	Pruning of lower foliage / branches of NTFP species like Kanuga, Neem etc., upto 1/3rd height	02-10-003	160.56	100 Nos	1783.82
3	Ls	Contingency	Actuals	-	Ha.	67.18
		Total>>				5007.00

The Estimate prepared based on the FSR Rates 2022-23. Hence the estimate may kindly be sanctioned at an early date.

	Total cost for 2022-23	5007.00
1	Add 10% for 2023-24	5507.70
2	Add 10% for 2024-25	6058.00
3	Add 10% for 2025-26	6664.00
4	Add 10% for 2026-27	7330.00
5	Add 10% for 2027-28	8063.00
6	Add 10% for 2028-29	8869.00
7	Add 10% for 2029-30	9756.00
8	Add 10% for 2030-31	10732.00
9	Add 10% for 2031-32	11805.00
10	Add 10% for 2032-33	12986.00
11	Add 10% for 2033-34	14285.00
12	Add 10% for 2034-35	15714.00

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//

N. Venkatesh
Superintendent 22/07/2023

**Estimate for 5th year Maintenance of 1.00 Ha. Proposed CA land in Degraded Forest Area in
Compartment No:175 of Y.Palem Range of Project Tiger, Markapur in Favour of Jio Digital Fiber Private
Limited**

Sl. No.	Quantity	Item of work	FSR item No.	Rate in Rs.	Per	Amount
1	400 RMT	Creation of Fire lines 3 mts wide	02-11-001	7.89	RMT	3156.00
2	1111 Nos	Pruning of lower foliage / branches of NTFP species like Kanuga, Neem etc., upto 1/3rd height	02-11-002	160.56	100 Nos	1783.82
3	Ls	Contingency	Actuals	-	Ha.	60.18
		Total>>				5000.00

The Estimate prepared based on the FSR Rates 2022-23. Hence the estimate may kindly be sanctioned at an early date.

	Total cost for 2022-23	5000.00
1	Add 10% for 2023-24	5500.00
2	Add 10% for 2024-25	6050.00
3	Add 10% for 2025-26	6655.00
4	Add 10% for 2026-27	7321.00
5	Add 10% for 2027-28	8053.00
6	Add 10% for 2028-29	8858.00
7	Add 10% for 2029-30	9744.00
8	Add 10% for 2030-31	10718.00
9	Add 10% for 2031-32	11790.00
10	Add 10% for 2032-33	12969.00
11	Add 10% for 2033-34	14266.00
12	Add 10% for 2034-35	15693.00

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//

N. Venkatarao
Superintendent 22/02/2023

DETAILED ESTIMATE										
For Construction of Boundary Pillars										
Sn o	Description of item	Nos.			Measurements			Qty	Rate/Per	Total Amount
					L	B	D			
1	2	3	4	5	6	7	8	9		
1	Earth work excavation for foundations and depositing on bank for all lifts and with an initial lead of 10m including all operational, incidental, labour charges such as shoring ,sheeting, planking, strutting, etc. complete for finished item of work etc as per SS - 20 B (APSS 308) including cost and conveyance of all material and labour charges, and contractors profit & over heads but excluding seignorage charges and VAT etc., complete.									
		1	x	1	1.20	1.20	0.45	0.65		
								0.65	273.00	177
								Cum.	1cum	
2	Plain Cement Concrete of (1:5:10) proportion nominal mix (cement: fine aggregate: Coarse aggregate) using 40mm size HBG M/c (SS5) metal with concrete mixture including cost and conveyance of all materials like cement, sand(unscreened), coarse aggregate, water etc. to site, all operational, incidental, and labour charges such as mixing, laying and ramming concrete in layers in position not exceeding 15cm, finishing top surface, curing concrete, overhead charges & Contractors profit etc., complete but excluding VAT & seigniorage charges, sales & other taxes on all materials,for finished item of work for Foundations (APSS No. 402).									
		1	x	1	1.20	1.20	0.15	0.22		
								0.22	716.00	158
								Cum.	1 Cum.	
3	Supply and placing of the VRCC M20 Nominal mix Concrete corresponding to Table 9 of IS 456 using with 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site including cost and conveyance of all materials, including all operational, incidental and labour charges such as , machine mixing, laying concrete, curing, including contractor profit and over head charges etc.,complete but excluding cost of steel and its fabrication charges for finished item of work with minimum cement content as per IS code from standard suppliers approved by the department including pumping, centering, shuttering, laying concrete, vibrating, curing etc. complete but excluding VAT and seignorage charges for finished item of work.									
		1	x	1	1.20	1.20	0.30	0.43		
								0.43	9319.07	4007
								Cum.	Per Cum	
4	Supply and placing of the VRCC M20 Nominal mix Concrete corresponding to Table 9 of IS 456 using with 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site including cost and conveyance of all materials, including all operational, incidental and labour charges such as , machine mixing, laying concrete, curing, including contractor profit and over head charges etc.,complete but excluding cost of steel and its fabrication charges for finished item of work with minimum cement content as per IS code from standard suppliers approved by the department including pumping, centering, shuttering, laying concrete, vibrating, curing etc. complete but excluding VAT and seignorage charges for finished item of work. For columns									
		1	x	1	(0.45+0.30)/2	((0.45+0.30)/2)	1.20	0.17		
								0.17	11674.49	1985
								Cum.	1Cum.	

Sn o	Description of item	Nos.			Measurements			Qty	Rate/Per	Total Amount
					L	B	D			
1	2	3			4	5	6	7	8	9
5	Plastering with CM (1:5), 12 mm thick Base Coat in CM(1:6) 8mm thick and top Coat in CM(1:3), 4mm thick including cost and conveyance of all materials and labour charges etc., complete									
	Columns four Sides	4	x	1	(0.45+0.30)/2		1.20	1.80		
	Top	1	x	1	0.30	0.30		0.09		
	Bottom Surface	1	x	1	1.20	1.20		1.44		
	Deduct	1	x	1	0.45	0.45		0.20		
								3.53	388.18	1370
								Sqm	1 Sqm	
6	Providing High Yield Strength Deformed (HYSD) steel bars (Fe 415 grade as per IS 1786-1979) of different diameters for RCC works, including labour charges for straightening, cutting, bending to required sizes and shapes, placing in position with cover blocks of approved materials and size and tying and lap-splicing with binding wire of 18 SWG, forming grills for reinforcement work as per approved designs and drawings, including cost and conveyance of steel bars, including all wastages such as overlaps, couplings, chairs, spacer bars including cost and conveyance of binding wire, cover blocks and all incidental, operational, labour charges such as cutting, bending, placing in position, tying including soverhead charges & Contractors profit but exlcuding VAT and other taxes on all materials etc., complete for finished item of work in all floors. (APSS No.126)									
		1	x	1	18.5			18.50	74.07	1370
								Kgs	1 Kg	
7	Painting to new walls with two coats of Snowcem paints of approved brand and shade over a base coat of appropriate cement primer of approved brand making three coats in all to give an even shade after throughly brushing the surface brushing the surfac									
	Columns four Sides	4	x	1	(0.45+0.30)/2		1.20	1.80		
	Top	1	x	1	0.30	0.30		0.09		
								1.89	188.74	357
8	Contingencies							Sqm	1sqm	176
									Rs:-	9600

The estimate prepared based on the SSR 2022-23 rates.

Submitted to the Divisional Forest Officer (WL), Markapur for favour of kind sanction.

	Total cost for 2022-23	9600.00
1	Add 10% for 2023-24	10560.00
2	Add 10% for 2024-25	11616.00
3	Add 10% for 2025-26	12778.00
4	Add 10% for 2026-27	14056.00
5	Add 10% for 2027-28	15462.00

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//

N. Venkatarao
Superintendent 22/02/2023

LEAD STATEMENT

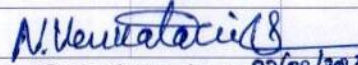
Name of the work : Construction of Boundary pillars

Sl. No.	Name of the Material	Name of the Quarry	Units	Lead	Conveyance charges	Initial cost	Loading charges	Un Loading charges	Blasting charges	25% HBG MC Charges	Total
1	2	3	4	6	7	10			11	12	14
1	Sand for mortar and plastering	Chennuru	1 Cum	130.00	1656.00	700.00			-	-	2356.00
2	Sand for concrete	Chennuru	1 Cum	130.00	1656.00	605.00			-	-	2261.00
3	40MM HBG Metal SS5	Ramatheerdam	1 Cum	89.00	1124.30	716.00			70.00	179.00	2089.30
4	20MM HBG Chips SS5	Ramatheerdam	1 Cum	89.00	1124.30	1196.00			70.00	299.00	2689.30
5	12mm HBG Chips SS5	Ramatheerdam	1 Cum	89.00	1124.30	952.00			70.00	238.00	2384.30
6	Cement	Local	1MT	1MT	4980.00						4980.00
7	Steel Fe-415/TMT	Local	1MT		58000.00						58000.00

1 Certified that the above leads are correct to the best of my knowledge.

Sd/-Vignesh Appavu.G,
Deputy Director,
Project Tiger, Markapur

//T.C.B.O//


Superintendent 22/02/2023

DETAILED DATAS (SSR - 2021-22)

N/W	For Construction of Boundary Pillars				
S.N	Description	Unit	Quantity	Rate Rs.	Amount Rs.
1	2	3	4	5	6
1	Earth work excavation for foundations and depositing on bank for all lifts and with an initial lead of 10m including all operational, incidental, labour charges such as shoring ,sheeting, planking, strutting, etc. complete for finished item of work including seigniorage excluding dewatering charges etc as per SS - 20 B (APSS 308) including cost and conveyance of all material and labour charges, and contractors profit & over heads but excluding seigniorage charges and GST etc., complete, (Ordinary rock)				
BLD-CSTN-2-4	Ordinary rock (not requiring blasting)-Manual Means-Upto 3 m depth				
	EARTH WORK				
	Unit : 1 cum				
	Taking output : 10 cum				
	a) Labour				
	Mazdoor (Unskilled)	No	5.20	525.00	2730.00
					2730.00
	Rate per 1cum		As per CSSR	Rs	273.00
4	Plain Cement Concrete of (1:5:10) proportion nominal mix (cement: fine aggregate: Coarse aggregate) using 40mm size HBG M/c (SS5) metal with concrete mixture including cost and conveyance of all materials like cement, sand(unscreened), coarse aggregate, water etc. to site, all operational, incidental, and labour charges such as mixing, laying and ramming concrete in layers in position not exceeding 15cm, finishing top surface, curing concrete, overhead charges & Contractors profit etc., complete but excluding VAT & seigniorage charges, sales & other taxes on all materials,for finished item of work for Foundations (APSS No. 402).				
	Unit = 1cum				
	A. MATERIALS:				
	Cement	kg	129.60	4980.00	645.41
	Coarse aggregate 40 mm	cum	0.90	2089.30	1880.37
	Fine aggregate (Sand)	cum	0.45	2261.00	1017.45
	Water for Curing	Kl	1.20	95.00	114.00
	B. Machinery				
	Concrete Mixer 10 / 7 cft (0.2 / 0.8 cum) capacity	hour	1.00	667.50	667.50
	C. LABOUR:				
	Mason 1 st class	day	0.10	630.00	63.00
	Mazdoor (unskilled)	day	1.39	525.00	729.75
	Rate per 1 cum			Rs	5117.48
5	Supply and placing of the VRCC M20 Nominal mix Concrete corresponding to Table 9 of IS 456 using with 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site including cost and conveyance of all materials, including all operational, incidental and labour charges such as , machine mixing, laying concrete, curing, including contractor profit and over head charges etc.,complete but excluding cost of steel and its fabrication charges for finished item of work with minimum cement content as per IS code from standard suppliers approved by the department including pumping, centering, shuttering, laying concrete, vibrating, curing etc. complete but excluding VAT and seigniorage charges for finished item of work. For FOUNDATIONS, PLINTH, PEDESTALS (Below Plinth).				
A	FOUNDATIONS, PLINTH, PEDESTALS (Below Plinth)				
	A. MATERIALS:				
	20mm HBG graded metal	cum	0.90	2689.30	2420.37

S.N	Description	Unit	Quantity	Rate Rs.	Amount Rs.
	Sand	cum	0.45	2261.00	1017.45
	Cement (limited to 350 kg)	Kgs	350.00	4980.00	1743.00
	B. LABOUR:				
	1st Class Mason	day	0.133	630.00	83.79
	2nd Class Mason	day	0.267	565.00	150.86
	Mazdoor (Both Men and Women)	day	3.600	525.00	1890.00
	B. MACHINERY				
	Concrete Mixer 10 / 7 cft (0.2 / 0.8 cum) capacity	hour	1.000	667.50	667.50
	40 mm dia Needle Vibrator	hour	1.000	259.10	259.10
	Water (including for curing)	kl	1.20	95.00	114.00
	BASIC COST per 1 cum				8346.07
a	Footings				
	BASIC COST per 1 cum				8346.07
	centering charges for Materials				301.00
	centering charges for labour				672.00
	Rate per Cum			Rs	9319.07
6	Supply and placing of the VRCC M20 Nominal mix Concrete corresponding to Table 9 of IS 456 using with 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site including cost and conveyance of all materials, including all operational, incidental and labour charges such as , machine mixing, laying concrete, curing, including contractor profit and over head charges etc., complete but excluding cost of steel and its fabrication charges for finished item of work with minimum cement content as per IS code from standard suppliers approved by the department including pumping, centering, shuttering, laying concrete, vibrating, curing etc. complete but excluding VAT and seignorage charges for finished item of work. For COLUMNS, LINTELS, WATER TANKS, RCC WALLS IN BUILDINGS.				
	For Ground Floor				
	A. MATERIALS:				
	20mm HBG graded metal	cum	0.90	2689.30	2420.37
	Sand	cum	0.45	2261.00	1017.45
	Cement (limited to 350 kg)	Kgs	350.00	4980.00	1743.00
	B. LABOUR:				
	1st Class Mason	day	0.167	630.00	105.21
	2nd Class Mason	day	0.167	565.00	94.36
	Mazdoor (Both Men and Women)	day	4.700	525.00	2467.50
	B. MACHINERY				
	Concrete Mixer 10 / 7 cft (0.2 / 0.8 cum) capacity	hour	1.000	667.50	667.50
	40 mm dia Needle Vibrator	hour	1.000	259.10	259.10
	Water (including for curing)	kl	1.20	95.00	114.00
	BASIC COST per 1 cum			Rs	8888.49
b	Columns				
	Basic Rate			8888.49	8888.49
	centering charges for Materials	Datas		371.00	371.00
	centering charges for labour			2415.00	2415.00
	Rate per Cum			Rs	11674.49
3	Plastering with CM (1:5), 12 mm thick Base Coat in CM(1:6) 8mm thick and top Coat in CM(1:3), 4mm thick including cost and conveyance of all materials and labour charges etc., complete				

S.N	Description	Unit	Quantity	Rate Rs.	Amount Rs.
	Unit = 10 sqm				
	A. MATERIALS:				
	Base Coat in CM(1:5),8mm thick				
	Cement	Kg	31.7	4980.00	157.87
	Sand	Cum	0.11	2356.00	259.16
	Top Coat in CM(1:3),4mm thick				
	Cement	Kg	19.2	4980.00	95.62
	Sand	Cum	0.04	2356.00	94.24
	B. LABOUR:				
	Mason 1 st class	day	0.63	630.00	396.90
	Mason 2 nd class	day	1.47	565.00	830.55
	Mazdoor (unskilled)	day	3.90	525.00	2047.50
	Grand Total			10 sqm	3881.84
				1 sqm	388.18
9	Providing High Yield Strength Deformed (HYSD) steel bars (Fe 415 grade as per IS 1786-1979) of different diameters for RCC works , including labour charges for straightening, cutting, bending to required sizes and shapes, placing in position with cover blocks of approved materials and size and tying and lap-splicing with binding wire of 18 SWG, forming grills for reinforcement work as per approved designs and drawings, including cost and conveyance of steel bars, including all wastages such as overlaps, couplings, chairs, spacer bars including cost and conveyance of binding wire, cover blocks and all incidental, operational, labour charges such as cutting, bending, placing in position, tying including overhead charges & Contractors profit but excluding VAT and other taxes on all materials etc., complete for finished item of work in all floors.(APSS No.126)				
	Unit = t				
	(a) Material				
	HYSD bars including 5 per cent for overlaps and wastage	t	1.05	58000.00	60900.00
	Binding wire	kg	6.00	70.00	420.00
	(b) Labour for cutting, bending, shifting to site, tying and placing in position				
	Bar bender	day	10.00	750.00	7500.00
	Mazdoor (Unskilled)	day	10.00	525.00	5250.00
				1MT	74070.00
				1Kg	74.07
8	Painting to new walls with two coats of Snowcem paints of approved brand and shade over a base coat of appropriate cement primer of approved brand making three coats in all to give an even shade after				
	Unit = 10 sqm				
	Cost of Cement primer (BMT-J.02)	1.00	Kg	200.00	200.00
	Painter Ist class	0.21	day	705.00	148.05
	Painter II nd class	0.49	Nos	565.00	276.85
	Cost of water proof Cement Paint of approved quality	3.50	Kg	49.00	171.50
	Painter Ist class	0.15	day	705.00	105.75
	Painter II nd class	0.35	Nos	565.00	197.75
	Mazdoor	1.50	Nos	525.00	787.50
	Total cost per 10 sqm				1887.40
	Total cost per 1 sqm				188.74