



AmulFed Dairy

A UNIT OF GUJARAT CO-OPERATIVE MILK MARKETING FEDERATION LIMITED

(PREVIOUSLY KNOWN AS MOTHER DAIRY, GANDHINAGAR)

Enquiry for Annual Rate contract

AFD /PUR/YKV/CABLE LAYING/2017

DATED: 31.07.2017

Dear Sir,

We invite your most competitive offer for ANNUAL RATE CONTRACT for Electrical Wiring and Cable laying work At “AmulFed Dairy”, Nr. Indira Bridge, Village Bhat, Dist. Gandhinagar or at, Packaging Film Plant (PFP) Sector 25, Gandhinagar.

Your offer should be based on following considerations & as per enclosed ANNEXURE & Person, duly authorized, to the contract, shall sign all pages of the annexure with stamp.

1. The offer should reach: AmulFed dairy (A Unit of G.C.M.M.F. LTD.)
Plot no: 35, Nr. Indira Bridge,
Ahmedabad Gandhinagar highway,
Village Bhat, Dist: Gandhinagar, Pin: 382428.
2. **Due Date: 15.08.2017.** **Contact period would be for one year.**
3. The offer should be send in sealed cover super scribing on the top left-hand corner offer for Inquiry No: **AFD /PUR/YKV/CABLE LAYING/2017**. If it is not super scribed, it is liable for rejection.
4. Offer received after due date for whatsoever reason may be rejected. We are not responsible for postal delays.
5. Offer should be valid for acceptance, for 60 days from due date for submission of offer. The Rates / price should be for F.O.R. destination basis inclusive of packing & forwarding and freight. GST would be extra on quoted rate. Kindly mention GST percentage separately.
6. **F.O.R. Destination can be:**
 - 1) **AmulFed Dairy** (A Unit of GCMMF Ltd.)
Plot No.35, Near Indira Bridge, Ahmedabad – Gandhinagar Highway, Village: Bhat,
Dist. Gandhinagar – 382 428, Gujarat Ph.No. (079) 23969055-58
 - 2) **Packaging Film Plant** (PFP), Sector 25, Electronic GIDC, Opp. Madhur Dairy,
Gandhinagar – 382 044, Gujarat, Ph. No. (079) 23287301 Fax No. (079) 23287383
7. IF you have any query in preparing the offer you can come & visit our site.
8. We are not bind to accept lowest offer.
9. Right to reject any or all the offers without assigning any reason is reserved by us.
10. Offer which are incomplete or not meeting the condition or only for part items, are liable for rejections.
11. Payment Terms with 30 days credit will only be accepted.
12. Detailed technical specifications are as per attached annexure.
13. We are an Integrated Management System (ISO9001:2008, ISO14001:2004, ISO 22000:2005) certified unit. We follow Quality, Food Safety & Environment friendly processes in our factory & also expect same to be followed in your company.

Thanking You,

Yours Faithfully,
For AmulFed Dairy, Gandhinagar

Purchase Department



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Annexure

ROUTE PLAN

- During the progress of the Work the Contractor shall record on a set of route plans and cross-section drawings of an approved form, such particulars as will allow an accurate reference to be made in the case of any fault or projected modification.
- These marked up records shall show, amongst other data, both indoors and outdoors the exact position of every joint, cable box, earth electrode and connections thereto and also particulars of the depth of the trench, the arrangement of the cables and the position of all obstructions revealed during the course of excavations.
- Two copies of the marked up cable route records shall be submitted by the Contractor within 10 days after completion of installation works.
- The above requirements will be a part of the conditions for the payment certification of the cable installation and commissioning works.

LABELLING

- All cables shall be identified below the termination at each end, in cable pits and at approved positions by means of identification plates engraved with the cable number, feeder name, size of cable, number of cores, phase colour etc., or such lettering as the Engineer may require.
- The termination plates shall be securely fastened in a permanent manner, and shall be made of material able to resist corrosion, damp and mechanical damage.

Cable Tags

- After pulling, cables shall be provided with identification tags consisting of 1.5mm thick aluminium strips of size 30x60mm on which cable numbers shall be die-punched. The tags shall be tied to the cables with non-corrosive wire. In case of single core cables, the said wire should be non-ferrous.

Cable tags shall be tied to cables at the following points

- Inside the cubicles at the point of glanding.
- Within the distances of 1 to 2 meters on either side of crossing of any wall, floor, fire stop or other barrier in cable galleries/trenches etc.
- One meter distance to be kept so that cable tags do not get concealed during lost/disturbed fire sealing, re-plastering, etc.
- At the field end termination before entry to the terminal box/junction box/marshalling box.
- Within the distances of 1 to 2 meters of either side of acute bends, tray jumping, and at every 30M interval in straight run.
- In every span over 30 meters found without any tag despite above.



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Quantity measurement and Return of surplus Quantity

- For payment purposes measurement shall be made on the execution drawings/physical measurements, physical measurements shall be made by the contractor in the presence of the representative of the authority.
- The measurements of cable laying shall be made on the basis of length actually laid from the lug to lug including that of loops provided and laid accordingly.
- All the leftover surplus, scrap and serviceable cable pieces and drums/spools/reels out of the cable quantities shall be returned by the contractor to the owner's stores in good condition.
- Cable of less than 5M length will be termed as scrap. Cable of length 5M and above shall be termed as serviceable material and shall be returned size wise and category-wise to the owner's stores/yard.
- All such cable shall carry an aluminium sheet metal tag indicating the size, and type of cable, cable of serviceable lengths being returned to the stores in drums shall have their free ends sealed and the balance lengths on the drums shall be noted. This shall be applicable only for the purpose of accounting the cables.
- It shall be responsibility of successful bidder to work out the complete cable schedule for the cables covered under this specification which shall incorporate the details of termination markings and route etc. in consultation with authorities and various equipment suppliers and submit the same for approval before starting the cable laying/fixing work.

TESTING

- The contractor shall take full responsibility of testing pre-commissioning and commissioning of cabling system being installed by him. It shall be overall responsibility of the contractor to arrange and complete all activities in complete co-ordination with equipment commissioning agency keeping in view the overall commissioning programme. The contractor shall submit a check list for testing and commissioning and the activities shall be carried out in accordance with the check list.
- Testing and electric measurement of cable installations shall conform to IS:1255
- Prior to installation, cables shall be tested for
 - a) Continuity of conductors
 - b) Insulation resistance between conductor and earth
 - c) Insulation resistance between the conductors
- After installation each cable shall be tested for
 - a) Insulation resistance between conductors
 - b) Insulation resistance between the conductors and earth
 - c) Absence of cross phasing
 - d) Firmness of terminations



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- The check and commissioning tests shall be carried out as part of the installation work and the contractor shall not be paid any extra amount for the same.
- The contractor shall have to bring all testing equipment/instruments in sufficient numbers. All instruments shall be calibrated to the satisfaction of the purchaser before actual testing and tests to be conducted by qualified experienced personnel.
- All documents/records regarding test data and all other measured values shall be submitted for approval and subsequent record and reference. All cables shall be energised only after certification from certification personnel that cable is ready for energizing. The results of all tests shall conform to the specification requirement as well as guaranteed data.

Tests at Site

- Measure conductor resistance Ohms/km.
- Measure insulation Mohms/km
- High voltage test as per IEC 502 clause 18.
- Voltage (dc) test on anti-corrosion outer covering as per Clause 5 IEC 229. This test should be carried out after laying but prior to jointing and backfilling above concrete slabs.
- Thermal resistivity measurement of the backfilled trench at characteristic locations, in intervals not less than 500 m in accordance with an approved method for HV cables (IEEE 442 or equivalent).
- After completion of the installation, all sheath insulation shall be tested in accordance with Clause 5 IEC 229.
- Capacitance test
- Earthing measurements
- Visual and functional test of solid bonding system and cable sheath temperature measurement system.
- Positive/negative and zero sequence impedance measurements.

CO-ORDINATION WITH OTHER CONTRACTOR

- During the execution of this contract, other contractor shall also be working in the Pump House and Sub-Station. The supplier shall, therefore, co-ordinate with other contractors to avoid any dispute with other contractor during execution of this contract.

STANDARDS AND REGULATIONS

- All materials in cables shall comply with applicable provisions of the latest editions of relevant Indian Standards, Indian Electricity Rules, Indian Electricity Act and other applicable statutory provisions, rules and regulations such as IEC, IEEE and other relevant International Standards.
- Equipment meeting the requirements of IEC/ANSI or any other internationally recognised standard which ensure a quality equal to or better than as per the standards indicated below shall also be acceptable. When the equipment conforms to any other standards, salient points of difference between the standards adopted and those prescribed in this specification shall be clearly brought out in the tender and a copy of



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the applicable standards(s) in English language shall also be enclosed by the supplier with the tender.

- Unless otherwise specified, the design, manufacture and performance of all the equipment and material provided under this specification shall generally conform to the latest issues of the following standards:-

1.	IS-694	PVC insulated cables for working voltages upto and including 1100V.
2.	IS-1554 (Part-I)	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V.
3.	IS-1554 (Part-II)	PVC insulated (heavy duty) electric cables for working voltages from 3.3kV upto and including 11kV.
4.	IS-3961	Recommended current ratings for cables
5.	IS-8130	Conductors for insulated electric cables and flexible cords.
6.	IS-5831	PVC insulation and sheath of electric cables.
7.	IS-6380	Specification of Elastomeric Insulation & Sheath of Electric Cables.
8.	IS-7098 (Part-I & II)	Cross linked polyethylene insulated PVC sheathed cables for working voltages upto 33kV.
9.	IS-3975	Mild steel wires, strips and tapes for armouring cables.
10.	IS-1753	Aluminium conductors for insulated cables.
11.	IS-1255	Code of practice for installation and maintenance of power cables upto and including 33kV rating.
12.	IS-12943	Brass glands for PVC cables.
13.	IS-10418	Drums for electric cables.
14.	IS-10810 (Part 0 to 63)	Method of test for cables.
15.	IS-6474	Polyethylene insulation and sheath of electric cables.
16.	IS-5819	Recommended short circuit ratings of high voltage PVC cables.
17.	IEC-60502	Power Cables with extruded insulation & their accessories for rated voltages 1kV to 30 kV
18.	IEC-540 & 540A	Test methods for insulation and sheaths of electric cables and cord.
19.	IEC-60332	Test on electric cables under fire conditions.



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TERMS AND CONDITIONS:

- You have to use only those persons who are trained and appropriately skilled to carry out the work.
- You shall have to comply with the rules and regulations in force within the premises of our plant and to ensure the precautions for the safety of the plant and personnel during working.
- AmulFed dairy shall not be liable for any accident or injury to any workman or other person in the employment of the contractor.
- Any damage to the installation executed by you shall have to be replaced/repared by you free of cost immediately.
- **All tools and tackles required for the job are to be arranged by you like ladder, drill m/c etc.**
- You should engage electrical supervisor for supervision of work.
- You have to start work within max. two days after instruction given by AmulFed Dairy Engineer.
- You have to make your own arrangement for storage and safe keeping of tools, tackles which may be required to carry out the works. AmulFed Dairy will not be responsible for damage of your material.
- The entire work shall be carried out as per good engineering practices and as per instruction of our engineer.
- You will fill in rates and prices for **all items** of works described in Enquiry.
- The rates and prices quoted by you shall be fixed for the duration of the contract.
- You are expected to examine carefully all instructions, conditions, terms, specifications and drawings in the Enquiry. Quotations, which are not responsive to the requirements of the inquiry documents, will be rejected.
- On the completion of the works you will clear away and remove from the site all surplus materials, rubbish and temporary works of every kind, and leave the whole of the site and works clean and in a workmanlike condition to the satisfaction of the AmulFed dairy Engineer.
- Power supply for carrying out the electrical works would be supplied by the AmulFed Dairy free of cost.
- **Payment:** 30 days after completion of particular job given to you.
- AFD strictly prohibit use of Tobacco in dairy premises in any form. Such acts will be strictly penalized @ Rs. 5000/- per act along with to permanent no entry to the driver, cleaner or any of your workers identified.
- **If work is not found satisfactorily AmulFed Dairy reserved right to terminate the part or full contract without any reason.**



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Rate Sheet

Sr. No.	JOB DESCRIPTION	UNIT	Installation RATE (Rs.)	Removal RATE (Rs.)
1	Fixing/Laying of Conduit pipe MS			
	Fixing of M.S. conduit pipes size specified as under with its accessories on WALL / RCC with max. 450mm distance between two consecutive clamps/saddles.			
a	20mm	RM		
b	25mm	RM		
c	32mm	RM		
d	38mm	RM		
2	Fixing/Laying of Conduit pipe PVC		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of P.V.C. conduit pipes size specified as under with its accessories on WALL /RCC with max.450mm distance between two consecutive clamps/saddles.			
a	20mm	RM		
b	25mm	RM		
c	32mm	RM		
d	38mm	RM		
3	Fixing/Laying of PVC Cassing-capping patti		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of P.V.C. box type casing capping size specified as under with its accessories on WALL /RCC with max. 450mm distance between two consecutive screws.			
a	20mm	RM		
b	25mm	RM		
c	32mm	RM		
d	38mm	RM		



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4	Fixing/Laying of Conduit pipe MS		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of M.S. conduit pipes size specified as under with its accessories on CABLE TRAY with properly tied to the cable tray.			
a	20mm	RM		
b	25mm	RM		
c	32mm	RM		
d	38mm	RM		
5	Fixing/Laying of Conduit pipe PVC		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of P.V.C. conduit pipes size specified as under with its accessories on CABLE TRAY with properly tied to the cable tray.			
a	20mm	RM		
b	25mm	RM		
c	32mm	RM		
d	38mm	RM		
6	Fixing/Laying of PVC Casing-capping patti		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of P.V.C. box type casing capping size specified as under with its accessories on CABLE TRAY with properly tied to the cable tray.			
a	20mm	RM		
b	25mm	RM		
c	32mm	RM		
d	38mm	RM		
7	CONCEALED Fixing/Laying of Conduit pipe MS / PVC		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of M.S./PVC conduit pipes size specified as under with its accessories IN SLAB .			
a	20mm	RM		
b	25mm	RM		
c	32mm	RM		
d	38mm	RM		



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8	CONCEALED Fixing/Laying of Conduit pipe MS / PVC		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of M.S. /PVC conduit pipes size specified as under with its accessories IN WALL.			
a	20mm	RM		
b	25mm	RM		
c	32mm	RM		
d	38mm	RM		
9	CONCEALED Fixing of Ceiling outlet boxes MS / PVC		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of M.S./PVC ceiling outlet boxes size specified as under with its accessories IN SLAB.			
a	78MM x 78MM	NO.		
b	78MM x 100MM	NO.		
10	CONCEALED Fixing of Wall outlet boxes MS / PVC		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of M.S./PVC outlet boxes size specified as under with its accessories IN WALL.			
a	78MM x 78MM	NO.		
b	78MM x 100MM	NO.		
c	78MM x 140MM	NO.		
d	78MM x 205MM	NO.		
e	78MM x 230MM	NO.		
f	135MM x 120MM	NO.		
g	135MM x 205MM	NO.		
h	145MM x 215MM	NO.		
i	135MM x 230MM	NO.		
j	205MM x 215MM	NO.		
k	213MM x 215MM	NO.		
11	Fixing of Modules plates		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of Modules plates size specified as under including fan regulators, switches for lights, fans, plug sockets etc. with termination			
a	1 OR 2 Module plate	NO.		
b	3 Module plate	NO.		
c	4 Module plate	NO.		
d	6 Module plate	NO.		



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e	8 Module plate	NO.		
f	12 Module plate	NO.		
g	16 Module plate	NO.		
h	18 Module plate	NO.		
12	<u>Wiring with PVC insulated wires/cables</u>		Installation RATE (Rs.)	Removal RATE (Rs.)
	Laying of flexible cu. cable size specified as under in conduit pipe / casing capping.			
a	1 sqmm* 1core	RM		
b	1 sqmm* 2core	RM		
c	1 sqmm* 3core	RM		
d	1 sqmm* 4core	RM		
e	1.5 sqmm* 1core	RM		
f	1.5 sqmm* 2core	RM		
g	1.5 sqmm* 3core	RM		
h	1.5 sqmm* 4core	RM		
i	2.5 sqmm* 1core	RM		
j	2.5 sqmm* 2core	RM		
k	2.5 sqmm* 3core	RM		
l	2.5 sqmm* 4core	RM		
m	4 sqmm* 1core	RM		
n	4 sqmm* 2core	RM		
o	4 sqmm* 3core	RM		
p	4 sqmm* 4core	RM		
13	<u>Wiring with PVC insulated wires/cables</u>		Installation RATE (Rs.)	Removal RATE (Rs.)
	Laying of flexible cu. cable size specified as under on cable tray.			
a	1 sqmm* 1core	RM		
b	1 sqmm* 2core	RM		
c	1 sqmm* 3core	RM		
d	1 sqmm* 4core	RM		
e	1.5 sqmm* 1core	RM		
f	1.5 sqmm* 2core	RM		
g	1.5 sqmm* 3core	RM		
h	1.5 sqmm* 4core	RM		
i	2.5 sqmm* 1core	RM		



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j	2.5 sqmm* 2core	RM		
k	2.5 sqmm* 3core	RM		
l	2.5 sqmm* 4core	RM		
m	4 sqmm* 1core	RM		
n	4 sqmm* 2core	RM		
o	4 sqmm* 3core	RM		
p	4 sqmm* 4core	RM		
q	6 sqmm* 1core	RM		
r	10 sqmm* 1core	RM		
s	16 sqmm* 1core	RM		
t	25 sqmm* 1core	RM		
u	35 sqmm* 1core	RM		
14	Laying of Armoured Cable directly on wall surface		Installation RATE (Rs.)	Removal RATE (Rs.)
	Fixing of armoured, cu./alu. conductor,pvc/xlpe insulated cable size specified as under on WALL / RCC with max. 400mm distance between two consecutive clamps/saddles.			
A	2 Core Cable :			
a	1.5 sqmm	RM		
b	2.5 sqmm	RM		
c	4 sqmm	RM		
d	6 sqmm	RM		
e	10 sqmm	RM		
f	16 sqmm	RM		
g	25 sqmm	RM		
h	35 sqmm	RM		
i	50 sqmm	RM		
j	70 sqmm	RM		
k	95 sqmm	RM		
l	120 sqmm	RM		
m	150 sqmm	RM		
n	185 sqmm	RM		
o	240 sqmm	RM		
p	300 sqmm	RM		
q	400 sqmm	RM		
B	3 Core Cable :		Installation RATE (Rs.)	Removal RATE (Rs.)
a	1.5 sqmm	RM		



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b	2.5 sqmm	RM		
c	4 sqmm	RM		
d	6 sqmm	RM		
e	10 sqmm	RM		
f	16 sqmm	RM		
g	25 sqmm	RM		
h	35 sqmm	RM		
i	50 sqmm	RM		
j	70 sqmm	RM		
k	95 sqmm	RM		
l	120 sqmm	RM		
m	150 sqmm	RM		
n	185 sqmm	RM		
o	240 sqmm	RM		
p	300 sqmm	RM		
q	400 sqmm	RM		
C	3.5 Core/ 4 Core Cable :		Installation RATE (Rs.)	Removal RATE (Rs.)
a	1.5 sqmm	RM		
b	2.5 sqmm	RM		
c	4 sqmm	RM		
d	6 sqmm	RM		
e	10 sqmm	RM		
f	16 sqmm	RM		
g	25 sqmm	RM		
h	35 sqmm	RM		
i	50 sqmm	RM		
j	70 sqmm	RM		
k	95 sqmm	RM		
l	120 sqmm	RM		
m	150 sqmm	RM		
n	185 sqmm	RM		
o	240 sqmm	RM		
p	300 sqmm	RM		
q	400 sqmm	RM		
	Removing of above item & replace it by new one	RM		
15	Laying of Armoured Cable on Cable Tray		Installation RATE (Rs.)	Removal RATE (Rs.)



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A	2 Core Cable :			
a	1.5 sqmm	RM		
b	2.5 sqmm	RM		
c	4 sqmm	RM		
d	6 sqmm	RM		
e	10 sqmm	RM		
f	16 sqmm	RM		
g	25 sqmm	RM		
h	35 sqmm	RM		
i	50 sqmm	RM		
j	70 sqmm	RM		
k	95 sqmm	RM		
l	120 sqmm	RM		
m	150 sqmm	RM		
n	185 sqmm	RM		
o	240 sqmm	RM		
p	300 sqmm	RM		
q	400 sqmm	RM		
B	3 Core Cable :		Installation RATE (Rs.)	Removal RATE (Rs.)
a	1.5 sqmm	RM		
b	2.5 sqmm	RM		
c	4 sqmm	RM		
d	6 sqmm	RM		
e	10 sqmm	RM		
f	16 sqmm	RM		
g	25 sqmm	RM		
h	35 sqmm	RM		
i	50 sqmm	RM		
j	70 sqmm	RM		
k	95 sqmm	RM		
l	120 sqmm	RM		
m	150 sqmm	RM		
n	185 sqmm	RM		
o	240 sqmm	RM		
p	300 sqmm	RM		
q	400 sqmm	RM		
C	3.5 core / 4 Core Cable :		Installation	Removal



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			RATE (Rs.)	RATE (Rs.)
a	1.5 sqmm	RM		
b	2.5 sqmm	RM		
c	4 sqmm	RM		
d	6 sqmm	RM		
e	10 sqmm	RM		
f	16 sqmm	RM		
g	25 sqmm	RM		
h	35 sqmm	RM		
i	50 sqmm	RM		
j	70 sqmm	RM		
k	95 sqmm	RM		
l	120 sqmm	RM		
m	150 sqmm	RM		
n	185 sqmm	RM		
o	240 sqmm	RM		
p	300 sqmm	RM		
q	400 sqmm	RM		
16	Laying of Armoured Cable in Ground			
	Laying of armoured, cu. /alu. Conductor, pvc/xlpe insulated cable in ground with excavation of earth size specified as under.			
A	2 Core Cable :		Installation RATE (Rs.)	Removal RATE (Rs.)
a	1.5 sqmm	RM		
b	2.5 sqmm	RM		
c	4 sqmm	RM		
d	6 sqmm	RM		
e	10 sqmm	RM		
f	16 sqmm	RM		
g	25 sqmm	RM		
h	35 sqmm	RM		
i	50 sqmm	RM		
j	70 sqmm	RM		
k	95 sqmm	RM		
l	120 sqmm	RM		
m	150 sqmm	RM		
n	185 sqmm	RM		



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o	240 sqmm	RM		
p	300 sqmm	RM		
q	400 sqmm	RM		
B	3 Core Cable :		Installation RATE (Rs.)	Removal RATE (Rs.)
a	1.5 sqmm	RM		
b	2.5 sqmm	RM		
c	4 sqmm	RM		
d	6 sqmm	RM		
e	10 sqmm	RM		
f	16 sqmm	RM		
g	25 sqmm	RM		
h	35 sqmm	RM		
i	50 sqmm	RM		
j	70 sqmm	RM		
k	95 sqmm	RM		
l	120 sqmm	RM		
m	150 sqmm	RM		
n	185 sqmm	RM		
o	240 sqmm	RM		
p	300 sqmm	RM		
q	400 sqmm	RM		
C	3.5 core / 4 Core Cable :		Installation RATE (Rs.)	Removal RATE (Rs.)
a	1.5 sqmm	RM		
b	2.5 sqmm	RM		
c	4 sqmm	RM		
d	6 sqmm	RM		
e	10 sqmm	RM		
f	16 sqmm	RM		
g	25 sqmm	RM		
h	35 sqmm	RM		
i	50 sqmm	RM		
j	70 sqmm	RM		
k	95 sqmm	RM		
l	120 sqmm	RM		
m	150 sqmm	RM		
n	185 sqmm	RM		



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o	240 sqmm	RM		
p	300 sqmm	RM		
q	400 sqmm	RM		
16.1	Providing and laying of bricks to cover laid under ground cable:		Installation RATE (Rs.)	Removal RATE (Rs.)
	A layer of bricks (full size) shall be laid on the edge between two cables, above sand bedding on the sides of cables and a flat brick to cover cable completely. See sketch to be given.	NOS.		
17	Termination on ends of cables size specified as under with suitable size of lugs. Lugs shall be fitted on conductor by crimping process with appropriate crimping tool.			
AA	1 Core Cable:			
a	1.5 sqmm	NOS.		
b	2.5 sqmm	NOS.		
c	4 sqmm	NOS.		
d	6 sqmm	NOS.		
e	10 sqmm	NOS.		
f	16 sqmm	NOS.		
g	25 sqmm	NOS.		
h	35 sqmm	NOS.		
A	2 Core Cable :		Installation RATE (Rs.)	Removal RATE (Rs.)
a	1.5 sqmm	NOS.		
b	2.5 sqmm	NOS.		
c	4 sqmm	NOS.		
d	6 sqmm	NOS.		
e	10 sqmm	NOS.		
f	16 sqmm	NOS.		
g	25 sqmm	NOS.		
h	35 sqmm	NOS.		
i	50 sqmm	NOS.		
j	70 sqmm	NOS.		
k	95 sqmm	NOS.		
l	120 sqmm	NOS.		
m	150 sqmm	NOS.		
n	185 sqmm	NOS.		
o	240 sqmm	NOS.		



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p	300 sqmm	NOS.		
q	400 sqmm	NOS.		
B	3 Core Cable :		Installation RATE (Rs.)	Removal RATE (Rs.)
a	1.5 sqmm	NOS.		
b	2.5 sqmm	NOS.		
c	4 sqmm	NOS.		
d	6 sqmm	NOS.		
e	10 sqmm	NOS.		
f	16 sqmm	NOS.		
g	25 sqmm	NOS.		
h	35 sqmm	NOS.		
i	50 sqmm	NOS.		
j	70 sqmm	NOS.		
k	95 sqmm	NOS.		
l	120 sqmm	NOS.		
m	150 sqmm	NOS.		
n	185 sqmm	NOS.		
o	240 sqmm	NOS.		
p	300 sqmm	NOS.		
q	400 sqmm	NOS.		
C	3.5 core / 4 Core Cable :		Installation RATE (Rs.)	Removal RATE (Rs.)
a	1.5 sqmm	NOS.		
b	2.5 sqmm	NOS.		
c	4 sqmm	NOS.		
d	6 sqmm	NOS.		
e	10 sqmm	NOS.		
f	16 sqmm	NOS.		
g	25 sqmm	NOS.		
h	35 sqmm	NOS.		
i	50 sqmm	NOS.		
j	70 sqmm	NOS.		
k	95 sqmm	NOS.		
l	120 sqmm	NOS.		
m	150 sqmm	NOS.		
n	185 sqmm	NOS.		
o	240 sqmm	NOS.		



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p	300 sqmm	NOS.		
q	400 sqmm	NOS.		
18	Glanding with Double Compression/single Compression on ends of cables before it enters terminal box/panels/d.b. etc.size specified as under		Installation RATE (Rs.)	Removal RATE (Rs.)
	Gland size			
a	12mm	NOS.		
b	16mm	NOS.		
c	19mm	NOS.		
d	22mm	NOS.		
e	25mm	NOS.		
f	28mm	NOS.		
g	32mm	NOS.		
h	35mm	NOS.		
i	38mm	NOS.		
j	45mm	NOS.		
k	50mm	NOS.		
l	57mm	NOS.		
m	63mm	NOS.		
n	70mm	NOS.		
o	75mm	NOS.		
p	82mm	NOS.		
q	88mm	NOS.		
r	100mm	NOS.		
19	Laying of Telephone cable		Installation RATE (Rs.)	Removal RATE (Rs.)
	Laying of unarmoured tele. Cable size mentioned as under in conduit pipe / casing capping .			
a	1 pair	RM		
b	2 pair	RM		
c	3 pair	RM		
d	4 pair	RM		
e	5 pair	RM		
f	10 pair	RM		
g	20 pair	RM		
h	50 pair	RM		
i	100 pair	RM		
20	Laying of Telephone cable			



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	Laying of unarmoured tele. Cable size mentioned as under on cable tray .		Installation RATE (Rs.)	Removal RATE (Rs.)
a	1 pair	RM		
b	2 pair	RM		
c	3 pair	RM		
d	4 pair	RM		
e	5 pair	RM		
f	10 pair	RM		
g	20 pair	RM		
h	50 pair	RM		
i	100 pair	RM		
21	<u>Laying of Telephone cable</u>			
	Laying of unarmored JELLY FILLED tele. Cable size mentioned as under in conduit .		Installation RATE (Rs.)	Removal RATE (Rs.)
a	10 pair	RM		
b	20 pair	RM		
22	<u>Laying of Telephone cable</u>		Installation RATE (Rs.)	Removal RATE (Rs.)
	Laying of unarmoured, JELLY FILLED tele. Cable size mentioned as under on cable tray .			
a	10 pair	RM		
b	20 pair	RM		
c	50 pair	RM		
d	100 pair	RM		
23	<u>Laying of Telephone cable</u>			
	Laying of Armoured, JELLY FILLED tele. Cable size mentioned as under on cable tray .		Installation RATE (Rs.)	Removal RATE (Rs.)
a	10 pair	RM		
b	20 pair	RM		
c	50 pair	RM		
d	100 pair	RM		
24	<u>Laying of Telephone cable</u>		Installation RATE (Rs.)	Removal RATE (Rs.)
	Laying of unarmoured, JELLY FILLED tele. Cable in ground with excavation of earth size specified as under .			
a	10 pair	RM		
b	20 pair	RM		
c	50 pair	RM		



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d	100 pair	RM		
25	Laying of Telephone cable			
	Laying of Armoured, JELLY FILLED tele. Cable in ground with excavation of earth size specified as under .		Installation RATE (Rs.)	Removal RATE (Rs.)
a	10 pair	RM		
b	20 pair	RM		
c	50 pair	RM		
d	100 pair	RM		
26	Cable jointing (Heat shrinkable kit supply by AmulFed dairy)			
a	3.5 C* 50mm ²			
b	3.5 C* 70 mm ²	No.		
c	3.5 C* 95 mm ²	No.		
d	3.5 C *120 mm ²	No.		
e	3.5 C *240 mm ²	No.		
f	3.5 C * 300mm ²	No.		
g	3.5 C *400 mm ²	No.		
27	Laying of computer Cable(CAT 6)	m		
28	Termination of computer cable(CAT 6)	No.		
29	Laying of Fiber cable on cable tray/pipe	m		
30	Laying of fiber cable in ground with excavation of earth size specified as under.			
a	3 pair	m		
b	4 pair	m		
31	Termination/Splicing of Fiber cable	No.		
32	Laying of CCTV cable on cable tray/pipe	m		
A	Installation, Testing and commissioning of FLUORESCENT LIGHT FITTINGS		Installation RATE (Rs.)	Removal RATE (Rs.)
1	Installation, Testing and commissioning of ALL TYPE OF Fluorescent tubelight fittings with its accessories on WALL / CEILING.	Nos.		



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2	Installation, Testing and commissioning of ALL TYPE OF Fluorescent tubelight fittings with its accessories on FALSE CEILING .	Nos.		
B	Installation, Testing and commissioning of CFL FITTINGS		Installation RATE (Rs.)	Removal RATE (Rs.)
1	Installation, Testing and commissioning of ALL TYPE OF CFL fittings with its accessories on WALL / CEILING .	Nos.		
2	Installation, Testing and commissioning of ALL TYPE OF CFL fittings with its accessories on FALSE CEILING .	Nos.		
C	Installation, Testing and commissioning of SODIUM / METAL HELIDE / MERCURY FITTINGS		Installation RATE (Rs.)	Removal RATE (Rs.)
1	Installation, Testing and commissioning of ALL TYPE OF SODIUM / METAL HELIDE / MERCURY fittings and their control gear with its accessories on CEILING .	Nos.		
2	Installation, Testing and commissioning of ALL TYPE OF SODIUM / METAL HELIDE / MERCURY fittings and their control gear with its accessories on WALL / PILLAR .	Nos.		
D	Installation, Testing and commissioning of CEILING FANS		Installation RATE (Rs.)	Removal RATE (Rs.)
	Installation, Testing and commissioning of ALL TYPE OF CEILING FANS OF ALL SIZES with their accessories on CEILING .	Nos.		
E	Installation, Testing and commissioning of WALL FANS		Installation RATE (Rs.)	Removal RATE (Rs.)
	Installation, Testing and commissioning of ALL TYPE OF WALL FANS OF ALL SIZES with their accessories on WALL .	Nos.		
F	Installation, Testing and commissioning of EXHAUST FANS		Installation RATE (Rs.)	Removal RATE (Rs.)
	Installation, Testing and commissioning of ALL TYPE OF EXHAUST FANS OF ALL SIZES with their accessories on WALL .	Nos.		
G	Installation, Testing and commissioning of DISTRIBUTION BOARD CONCEALED		Installation RATE (Rs.)	Removal RATE (Rs.)



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	Installation, Testing and commissioning of concealed distribution board size specified as under with ELCB/MCB, termination and other accessories.			
1	SPN DBs			
a	4 way	Nos.		
b	8 way	Nos.		
c	12 way	Nos.		
2	TPN DBs			
a	4 way	Nos.		
b	6 way	Nos.		
c	8 way	Nos.		
d	12 way	Nos.		
e	16 way	Nos.		
H	Installation, Testing and commissioning of DISTRIBUTION BOARD ON WALL		Installation RATE (Rs.)	Removal RATE (Rs.)
	Installation, Testing and commissioning of concealed distribution board size specified as under with ELCB/MCB, termination and other accessories.			
1	SPN DBs			
a	4 way	Nos.		
b	8 way	Nos.		
c	12 way	Nos.		
2	TPN DBs			
a	4 way	Nos.		
b	6 way	Nos.		
c	8 way	Nos.		
d	12 way	Nos.		
e	16 way	Nos.		
I	Installation, Testing and Commissioning of Earthing strip with saddling and support.	Rm		
J	Installation of Cable Tray on support		Installation RATE (Rs.)	Removal RATE (Rs.)
1	150 * 50	m		
2	250 *50	m		
3	300* 50	m		
4	400*50	m		
5	600 * 50	m		



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K	Fabrication of Support for cable tray work with arc welding works.(including welding rods and welding machine)	KG		
L	Earthing			
1	GI plate(600*600*5mm) -Earthing (including all earthing materials i.e charcoal,salt,plate,earthing chamber with cover)	No.		
2	Cu plate -(600*600*3mm) Earthing (including all earthing materials i.e charcoal,salt,plate,earthing chamber with cover)	No.		
O	Installation of Junction Box	No.		
P	Installation of Switch socket Box(SS combined)	No.		
Q	Road crossing (auguring work)			
	Dia 4 inch	no		
	Dia 6 inch	no		
	Dia 8 inch	no		
R	Installation of MCCB in Panel/DB			
	160 A	no		
	250 A	no		
	400 A	no		
	630 A	no		
S	Shifting-Loading/Unloading work of Panel	KG		
T	Laying of Flexible cable on cable tray			
1	1.5/2.5 mm2 ,6 Core	m		
2	1.5/2.5 mm2 ,10 Core	m		
3	1.5/2.5 mm2 ,19 Core	m		
4	1.5/2.5 mm2 ,24 Core	m		
U	SOLAR PANEL CLEANING HEIGHT 7.5 METER	no		
V	SOLAR STREET LIGHT BATTERY WATER CHECKING AND WATER FILLING WORK (1 SET = 2 NO BATTERY)	set		
	GST in %			