# Government of Madhya Pradesh, Urban Administration and Development Department 



## INTEGRATED STANDARD SCHEDULE OF RATES (4 VOLUMES)

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\text { VOLUME - } 4
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## ELECTRICAL WORKS



## INFORCE FROM

## 1st JUNE 2011

ISSUED BY

COMMISSIONER
Urban Administration and Development Department Government of Madhya Pradesh, Bhopal


## FOREWORD

The $74^{\text {th }}$ Constitutional Amendment has created a focus on improving and strengthening Urban infrastructure and systems in Urban Local Bodies. With the availability of substantial funds from various sources and with our own increased revenues, shortage of development funds is no longer a major constraint for development. However ensuring the effective utilization of available funds is a major concern.

Procurement processes in the Urban Local Bodies is one such area which requires basic system improvement and transparency. Estimating the cost of works correctly prior to the execution is one of the major challenges. Till now, Urban Administration and Development Department, Government of Madhya Pradesh did not have its own Standard Schedule of Rates which forms a basis for estimating the costs of various Building and Infrastructure works including Water Supply, Drainage, Road, Sewerage and Sanitation and Electrical Works. Presently Urban Local Bodies have to depend on Schedule of Rates of various Works Departments of the State Government such as MP Public Health Engineering Department, Public Works Department, Water Resource Department etc. for civil works and Madhya Pradesh State Electricity Board for electrical works. The infrastructure and maintenance works done by our Urban Local Bodies are town specific as well as need specific and therefore, new items are required to be created which are currently not mentioned in these SoRs. Hence the Department of Urban Administration and Development has decided to develop its own Integrated Standard Schedule of Rates for all Building and Infrastructure and maintenance works keeping in view the current and future requirements of the Urban Local Bodies.

I am extremely happy that the Department, with the assistance of Project Utthan, Madhya Pradesh Urban Services for the Poor (MPUSP), a DFID assisted programme has taken up this task and have completed it.

To complete this task, a 18 member Working Group was formed vide order number यांप्र/7/09/2442 dated 12th October 2009. This Working Group decided about the various items required by Urban Local Bodies to carry out the infrastructure development and construction works smoothly, and to be included in the ISSR.

The ISSR is prepared in four parts i.e. Volume - 1 Water Supply, Sewerage \& Tube well works, Volume - 2 Building works, Volume - 3 Road \& Bridge works, Volume - 4 Electrical works. Specifications for various works have also been illustrated in three separate volumes.

An Output Review Panel was also constituted vide order number MPUSP/Engg./SSRs/10/439, Bhopal Dated 23-7-2010. The Output Review Panel reviewed the process outputs and finalized various reports including Rate Analysis for various items under Integrated Standard Schedule of Rates.

All the volumes of the ISSR along with the applications are also available on the Website of UADD (mpurban.gov.in). Arrangements have been made for annual updation of the ISSR. This will help the Urban Local Bodies in preparing cost estimates close to the prevailing market values and hence, avoid high tender rates.

I extend my sincere thanks to the Project Director, Project Utthan, MPUSP, UADD, Bhopal and to all the members of Working Group and the Output Review Panel for taking keen interest in completing the voluminous job of preparation \& completion of ISSR well in time.

I am sure that this Integrated Standard Schedule of Rates will be quite useful for all the construction, development and maintenance works of Urban Local Bodies of Madhya Pradesh.

(S.N. Mishra)

Commissioner
Urban Administration and Development
Government of Madhya Pradesh
Bhopal

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## GENERAL NOTES

1
The SOR of UADD Department consists of 4 Volumes
VOLUME - I WATER SUPPLY, SEWRAGE AND TUBE WELL WORKS
VOLUME - II Building Works
VOLUME - III Road \& Bridge Works
VOLUME -IV Electrical Works

2
The contents of each Volume are given below
VOLUME-I
WATER SUPPLY, SEWRAGE AND TUBE WELL WORKS

| 1 | Cast Iron Pipes and Specials with with Socket \& Spigot lead joints. |
| :--- | :--- |
| 2 | Cast Iron Tyton Pipes with Tyton Joints. |
| 3 | Cast Iron Pipes and Specials with flanged joints. |
| 4 | Ductile Iron Pressure Pipes and Special with Tyton joints. |
| 5 | Unplasticized PVC Pipes \& Fittings for potable water supply. |
| 6 | Cast Iron Valves. |
| 7 | Galvanised Iron Pipes, Specials and Gun Metal/Brass Metal Fittings. |
| 8 | HDPE Pipes and Specials. |
| 9 | GRP Pipes and Specials. |
| 10 | Asbestos Cement Pressure Pipe and Cast Iron Fittings. |
| 11 | Salt Glazed Stoneware Pipes. |
| 12 | Unplasticized Non-Pressure Polyvinyl <br> underground sewerage system. |
| 13 | Reinforced Cement concrete Pipes. |
| 14 | Sewer Appurtenances. |
| 15 | Civil Works for Water Supply \& Sewerage works. |
| 16 | Miscellaneous. |
| 17 | Drawings for Water Supply \& Sewerage. |
| 18 | Drilling of Tube Wells. |

VOLUME - II
BUILDING WORKS

| 1 | Carriage of Material |
| :--- | :--- |
| 2 | Earth work |
| 3 | Motars |
| 4 | Concrete work |
| 5 | Reinforced Cement Concrete |
| 6 | Brick work |
| 7 | Stone work |
| 8 | Marble work other than flooring |
| 9 | Wood Work \& P.V.C. Works |
| 10 | Steel work |
| 11 | Flooring |
| 12 | Roofing and celling |
| 13 | Finishing |
| 14 | Repair to Building |
| 15 | Dismantling \& Demolishing |
| 16 | Pile work |


| 17 | Aluminium work |
| :--- | :--- |
| 18 | Water proofing |
| 19 | Horticulture \& Landscaping |
| 20 | Form Work |
| 21 | Higher Charges of Machine |
| 22 | Water Harvesting, Recycle and Reuse wastewater |
| 23 | Buillding Water Supply |
| 24 | Buillding Drainage |
| 25 | Sanitary Installation |

## VOLUME - III ROAD \& BRIDGES WORKS

| ROAD |  |
| :--- | :--- |
| 1 | Carriage of Material |
| 2 | Site Clearance |
| 3 | Earth work, erosion control and Drainage |
| 4 | Sub-Bases, Bases (Non-Bituminous) and Shoulders |
| 5 | Bases and Surface courses (Bituminous) |
| 6 | Cement Concrete Pavements |
| 7 | Geosynthetics and Reinforced Earth |
| 8 | Traffic Signs, marking \& other Road Appurtenances. |
| 9 | Supply of Material |
| 10 | Maintenance of Roads |
| 11 | Horticulture |
| 12 | Survey \& investigation, Preparation of D.P.R. and other Miscellaneous items |
| BRIDGES |  |
| 13 | Foundations |
| 14 | Sub-Structure |
| 15 | Super-Structure |
| 16 | River Training and protection works |
| 17 | Repair and Rehabilitation |

## VOLUME - IV

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| 1 | Wiring in surface /concealed rigid P.V.C. conduit system. |
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## Internal \& External Electrification

## $3 \quad$ Point Wiring

3.1 Method and type of wiring shall be fully described and measured separately, it shall be classified according to the size and types of cables used.
3.2 Concealed conduit work and surface conduit work shall also be classified and described separately the former shall include embedding the conduit and allied fitting in walls, floors etc. during constructions or cutting chases, or both and making good as necessary.
3.3 Point wiring shall include all work necessary in complete wiring of a switch circuit of any length from the tapping point on the distribution circuit to the following via a switch:
(a) Ceiling rose or connector (in case of ceiling and exhaust fan points or stiff pendent).
(b) Ceiling rose (in case of pendent points except stiff pendent points).
(c) Lamp holder (in case of wall brackets, batten points bulk head fittings and similar other fittings).
(d) Call bell or Buzzer (in this case the words "Via the switch" shall be read as "Via the bell push or ceiling rose" as the case may be.
(e) Upto Electric Clock outlet.
(f) Upto Socket outlet.
3.3.1 When there is only one point on the distribution circuit (one way), the same shall be measured in two parts i.e. one as circuit wiring according to the definition of the circuit wiring and the other as "Points" according to the above definition for "Points".
3.3.2 The following shall be deemed to be included in the Point Wiring.
(a) Rigid steel conduit/rigid PVC non-metallic conduit/HDPE conduit/casing and capping as the case may be, accessories for the same and wiring cables from controlling switch or any other type of switch to the point including earth wire.
(b) Switch and ceiling rose or connector or batten holder with special and suitable round block for neatly housing the connector as required.
(c) In case of wall brackets, bulk head fitting and similar fittings, cable as required upto the Lamp Holder
(d) Bushed conduit or porcelain tubing when cables pass through wall etc.
(e) All PVC/Metal blocks switch boards and boxes sunk or surface type, with suitable covering, i.e. (Phenolic laminated sheet, modular plate with base frame) including those frame required for mounting fan regulator but excluding those under the distribution board and main control switch, but as specified in schedule of items in this SOR, the boxes and covering shall be included.
(f) All fixing accessories such as clips, nails, screws, phil plug, rawl plug etc. as required.
(g) Joint for junction boxes and connecting the same as required.
(h) Connections to ceiling rose or connector, socket outlet, lamp holder, fan regulator etc.
(i) Socket outlets as specified.
(j) Inter connection wiring between points on the same circuits in same switch box or from another.
(k) connector as required for looping of wiring for two or more wires wherever required.
(I) Pendants, if provided shall be paid extra.
3.3.3 The mechanical protection to the wiring coming within 1.5 Mtr . from floor level upto switch board shall be deemed to have been included in the item of work. Method of installation and making good the damages shall be described in the specification.
3.3.4 The common bare earth continuity conductor as specified in the schedule of items shall be included in point/circuit wiring or fixing and drawing of all items and green colour PVC insulated Multi strand FR copper wire as earth wire. However, Switch Board with sheet modular or non-modular type included in the rates of point wiring and switch boards should be selected so as to accommodate atleast similar one switch \& socket in future.
3.4 Wiring points shall be classified as follows:
(a) Short points-not exceeding 3 Mtr. in length.
(b) Medium points-exceeding 3 Mtr. but not exceeding 6 Mtr. in length.
(c) Long point-exceeding 6 Mtr. but not exceeding 10 Mtr. in length.
(d) Extra Long Point-I:- Exceeding 10 Mtr. but not exceeding 15 Mtr. in length.
(e) Extra Long Point-II Exceeding 15 Mtr. but not exceeding 20 Mtr. in length.
(f) Extra Long Point-III:- Exceeding 20 Mtr.in length as required.
3.4.1 The terms length per point in point wiring in the case of fan points, light points and socket outlet hall mean the distance between the switch and ceiling rose/connector or back plate or lamp holder or socket outlet point depending upon the fitting measured along the run of wiring irrespective of the number of wires in the run, separate measurement may be made where the switches and socket outlet points are located on the same board.
3.4.2 In the case of boards with socket outlet point only, the length shall mean the distance between the socket outlet and the tapping point of live wire on the nearest switch board or junction box, as the case may be.
3.4.3 Any junction box provided for extending the wiring beyond the point referred to shall not be treated as the nearest tapping point.
3.4.4 Light point controlled by two, two way switches shall be measured as two points from fitting to switches on either side and classified according to the length.
3.4.5 In case of point with more than one light point controlled by the same switch such points shall be measured in parts i.e. from the switch to the first light point classified as one point and for the subsequent point, the distance from the fitting to fitting shall be measured along the run of wiring classified and treated as equivalent to half the point so derived.
3.4.6 In case of call bell/buzzer points, with single call bell/buzzer, controlled by more than one push, the length of point shall be measured in parts, i.e. from the call bell/buzzer to one of the nearest push classified as one point and for the other pushes, the distance from each push to the call bell shall be measured along the run of wiring classified and treated as equivalent to half the point so derived.
3.4.7 Where more than one call bell/buzzer points as controlled by the same push, the length of the points shall be measured as in 1.4.5.
3.4.8 Same Board socket outlet point means sockets and switches are provided on same board, if another sockets outlets is provided in adjacent switch board upto conduit length of 0.3 M away shall be considered on same board. If length of conduits is above 0.3 m (i.e. adjacent switch board is away above 0.3 m ) the point shall be considered as separate socket point.
3.4.9 M.S. Boxes will be embedded in wall of all types of wiring.
3.4.10 Any wiring should be carried out as per ISI/IS/BIS (emended upto date)
3.4.11 Wiring in PVC casing capping should be used in regular/for maintenance work.

4 The agency carrying out the work shall certify that the work has been carried out as per statutory or other regulations inforce and prescribed specifications.
4.1 The materials and labour involved shall be described and it shall be stated that the materials used are of approved make and as per list attached to the agreement/NIT etc.
4.2 Cutting through walls and floors lifting up floor boards and refixing cutting out plaster and making good all the work disturbed, notching or drilling holes through joists etc. shall be deemed to be included with the item of work.
4.3 The work shall be strictly carried out is accordance with the detailed layout plan of Electrical installation unless otherwise necessary to be altered due to site conditions during the course of execution.
4.4 Completion plans for the installation carried out shall be furnished.
4.5 Measurement - Tolerances for areas and cubic contents are applicable only for Civil Works associated with the electrical work:
(a) Dimension shall be measured to the nearest 0.05 M .
(b) Areas shall be worked out in the nearest 0.01 Sqm.
(c) Cubic contents shall be worked out to the 0.01 Cum.
4.6 The material is to be used as per "List of standard list of electrical material "annexed herewith. However, the competent authority of UADD may further issue the list of electrical material of new Make/model keeping in view the quality and the required specification. In case of non-availability of material as specified in the 'List of Approved material' in any particulars are at any point of item, the Engineer-in-Charge may permit the use of material of the different equivalent make/model after taking permission from Higher Autority.
4.7 The rates given are for finished complete work. All material, labour, wastage, royalties, lease rent, scaffolding, temporary work, T\&P hire charges, breakage, making good any damage to wall, surface, fitting etc. to original finish, transportation, replacement of any defective material, theft pilferage, insurance, variation in market rates etc. are included in the rates, unless specified otherwise. Removal of rubbish, dismantled material, cleaning of work/site is also included in the rates. Rectification of work due to defective/inappropriate materials and or workmanship.
4.8 In case of contradiction/conflict in the provisions of this SSR and UADD specifications, the former will prevail. In situations, where the provisions are not provided or silent in this SSR the provisions of UADD specification shall apply. However decision of competent authority for Technical sanction shall be final and binding.

## 5 <br> CIRCUIT WIRING'

5.1 Circuit wiring is to be done in 2.5 sqmm cable. The rate of the earth wire of green colour of 2.5 sqmm copper Multi strand FR to be run inside the same conduit shall be payable separately as per actual measurements. Similarly, green colour earth wire of design size for sub-main shall run inside the same conduit and shall be paid separately. Separate conduit shall be used for point, circuit and sub-main wiring.
5.2 In case of exclusive socket outlet points with switch \& socket the length of point shall be the distance between the socket outlet and the tapping point of live wire in the nearest distribution or sub distribution board and hence no separate measurement need be taken for circuit wiring or for earth continuity conductor.
5.3 Except as described above different types of wiring shall be measured separately and given in running meters. The length shall be the actual length of wiring installed and the number and size of cables shall be stated.
5.4 The length of sub mains, circuit wiring or any other type of wiring on linear basis shall include all lengths from end to end of casing and capping, conduits as the case may be exclusive of inter connections inside the switch board etc. The increase on account of division or slackness shall not be included in the measurements.
5.5 Modular accessories, and (non-modular), have been given accordingly.
5.6 The rewirable based SFUs and fuses are to be used.
5.7 MCB DBs of double door of sheet metal only are to be used and are included. MCBs of "C" curve type are to be used and rates have been accordingly provided.
5.8 Energy saver ceiling fans confirming to IS : 374 (update) with amended upto date are to be used. Provision for step type electronic regulator has been made and payable separately.
5.9 In addition to conventional energy saver CFL fitting and lamps are introduce.
5.10 Only Copper conductor (ICPCI approved) multi-strand cable with PVC Insulated Fire Retardant (FR) having minimum oxygen index value $29 \%$ is to be used.
5.11 Fixing and drawing of all items and green colour PVC insulated Multi strand FR copper wire as earth wire. However, Switch Board with sheet-modular or non-modular type is not included in the rates of point wiring and shall be paid separately and switch boards should be selected so as to accommodate atleast similar one switch \& socket in future.
5.12 Fire extinguishers required for panel/sub-stations have also included.

## CABLES

Cables shall be classified according to their voltage, materials, size and type of insulation armoring etc. Each type of cable shall be described and measured separately.
6.1 The length measured shall be actual length fixed or laid including connections upto switch for all cables other than paper insulated, lead covered cables and upto the entry point of cable end box of PILC cables.
6.2 The method of laying and the type of jointing shall be fully described.
6.3 Cables shall be described and given in running meters. Terminal and joint boxes of various type shall be enumerated and measured separately according to their type and size.
6.4 The mechanical protection for cables laid in walls or floor or underground shall be measured
6.5 4.5 manholes shall be described and enumerated separately.

7 EARTHING'
7.1 The object of an earthing system is to provide as nearly as possible a system of conductors at a uniform potential and as nearly zero or absolute earth potential as possible. The purpose of this is to ensure that in general all parts of apparatus other than live parts shall be at earth potential as well as to ensure that persons coming in contact with it shall be at earth potential at all times,

### 7.2 System Earthing '

Earthing associated with current carrying conductor is normally essential to the security of the system and is generally known as system earthing.

### 7.3 Equipment Earthing'

Earthing of non-current carrying metal work and conductor is essential to the safety of human life, of animals and or property and is generally known as equipment earthing.

As far as possible all earth connections shall be visible for inspection and shall be carefully made; if they are poorly made or inadequate the purposed for which they are intended, loss of life and property or serious personal injury may result. Earthing shall conform to the follow specifications. For other details not covered in this specification IS : 3043-1987 shall be referred to.
For checking the efficiency of earthing, the following tests are done.
(a) The earth resistance of each electrode shall be measured.
(b) Earth resistance of earthing grid shall be measured.
(c) All electrodes shall be connected to the grid and the earth resistance of the entire earthing system shall be measured.

These tests shall preferably be done during the summer months.

8 Safety measures shall be followed as per IS Code 4770-1991 and IS 5424-1969 (Update)

9 Work shall be carried out by License holder Electrican/wireman registered from licensesing board.

10 The items and rates taken in this SCHEDULE OF RATES are for finished items of work covering all materials, required labour, wastage, temporary work, tools, plants, overhead charges, lead and lifts, transportation, cleaning of obstacles if any, required to complete the work unless otherwise specified.

11 The rates mentioned in the SCHEDULE OF RATES are inclusive of all taxes and duties.

12 For technical specification, the I.E. rules 1956, Indian Electricity Act 1910, relevant IS codes with upto date amendments and Technical Specification (if enclosed) will be applicable unless otherwise specified.

While taking the measurement of overhead line conductor, $3 \%$ sag will be added in straight length.

14 The Tender form will be issued to the contractors having " $A$ " class electrical contractor's valid license from M.P. Electrical Licensing Board, Govt. of M.P., and registered in appropriate category of M.P. departments as per N.I.T. conditions, unless otherwise specified.

The layout plan for External electrification shall be got approved from concerning authority of UADD and will be supplied to the contractor for execution.

All materials, fitting appliances etc. used in installation work shall be as per approved list of Deptt.

All materials will be confirming to relevant IS specifications wherever they exist.

Before inviting the tenders following special condition be added in notice inviting tender drafts:
(a) The contractor will be responsible for submitting the guarantee certificates for a period of 24 months from the date of charging, and handing over of installation to the Deptt. for Transformer, Circuit breaker and other equipment and accessories.
(b) The contractor shall submit the bill of purchase of materials, Test Certificate etc. and Excise gate passes (wherever required) before making payment.
(c) The contractor shall be responsible for arranging inspections of authorities of Electricity Board, Electrical Licenising Board and other local bodies, getting approval of layouts, drawings, installation from them and to submit the required document, charging certificate etc. to MP UADD.
(d) No final payment will be made till the lines are handed over to the deptt.
(e) $5 \%$ of cost of transformer and VCBs will be kept in miscellaneous deposits till the same is taken over by MP Electricity Board/Depositor. In addition to above 2\% of total cost of work will be kept in Misc. deposit till the lines are taken over by the deptt.
(f) The contractor will be responsible for taking shutdown required from MPEB for execution and commissioning of work at his own risk \& cost.
(g) The rate quoted shall be deemed to be inclusive of all taxes, duties including service tax if any.
(h) Income Tax, Commercial Tax, VAT, Labour Welfare etc. shall be deducted from the bill of contractors as per rules.
(i) The contractor shall make his own arrangements of water supply, site office, store and electricity at site for execution of work.
(j) The contractor shall be responsible for a period of 24 months for any loss/theft, if caused to the lines, sub-station and other materials from the date of charging and handing over the lines to the UADD.
(k) During the guarantee period of two years, 5\% (Five Percent) amount of total value of work done shall be retained by the Deptt. Or the contractor shall have to give Bank guarantee/FDR of the said amount in favour of UADD.
(I) TransformerVCBs and associated items will be inspected/tested as per IS specification by M.C. before dispatch of materials at works. The above items will be accepted subject to the above qualifying.

The labour rates adopted for preparation of S.O.R. are inclusive of provision for weekend holiday.

Rates payable for any work to be done departmentally then rates should be reduced by (contractor profit percentage $10 \%+\mathrm{T} \& \mathrm{P}$ charge 2\%) i.c. $100 \times 12 / 115=10.434 \%$

| CHAPTER -1 to 8 |  |
| :---: | :---: |
| Wiring, Control Switch gear/Bus bar, MCCB's, Isolators and fixing |  |
| 1 | General |
|  | (a) Rates include all lead and lift, for all materials, for all items, unless otherwise specified. |
|  | (b) The provision of scaffolding or ladder or any tools and plants required-shall be deemed to be included in the items, unless otherwise stated. |
|  | (c) Excavation for poles, underground cables, concreting in foundations, painting of poles, struts etc, shall be measured separately. |
|  | (d) Cutting through walls and floors, lifting up floor boards and re-fixing, cutting out plaster and making good all the work disturbed, notching or drilling holes through joists, etc., shall be deemed to be included with the item of work. |
| 2 | Point Wiring : - |
|  | (a) Concealed conduit work shall include embedding the conduit and allied fittings in walls, floors etc., during construction or cutting chases, or both and making goods and necessary. |
|  | (b) The work shall be strictly carried out in accordance with the detailed layout plan of electrical installation, unless otherwise necessary to be altered due to site conditions during the course of execution. |
|  | (c) Completion plans for the installation carried out shall be furnished. |
|  | (d) Point wiring shall include all work necessary to complete wiring of a switch circuit of any length from the tapping point on the distribution circuit to the following Via the switch: |
|  | (i) Ceiling rose or connector (in case of ceiling and exhaust fan points or stiff pendant); |
|  | (ii) Ceiling rose (in the case of pendant point except stiff pendant points); |
|  | (iii) Socket outlet (in. the case of socket outlet points); |
|  | (iv) Lamp holder(in the case of wall bracket(s), button points, bulb head fittings and similar other fittings. |
|  | (v) Call bell or buzzer (in this case the words 'Via the switch' shall be read as 'via the bell push or ceiling rose as the case may be') |
|  | (vi) Upto electric clock outlet. |
|  | (e) Switches, |
|  | (i) When measured separately from point wiring, the switches shall be described stating the type and rated capacity. Cover plates, if any, shall be included with the item. |
|  | (ii) Switch plug combination, comprising socket outlet, switch and plug shall be described, and the type and rated capacity shall be stated. |
|  | (e) When there is only one point on the distribution circuit (one way) the same shall be measured in two parts, one circuit wiring according to the definition of the circuit wiring and the other points according to the above definition for points. |
|  | (f) The following shall be deemed to be included in the point wiring :- |
|  | (i) Switch and ceiling rose of connector with special and suitable round block for neatly housing the connector as required; |



| 3 | Circuit Wiring :- |  |  |
| :---: | :---: | :---: | :---: |
|  | (a) Length of wiring from the distribution board of sub-distribution board up to the tapping point of the first point, that is, up to first switch board shall be considered as circuit wiring The length of circuit wiring with two wires shall be measured from the distribution or sub-distribution board to the first switch board in the circuit irrespective of whether the neutral conductor goes into the switch box or not. The earth wire from the distribution or sub-distribution board up to the first tapping point shall be measured separately. |  |  |
|  | (b) In case of exclusive socket outlet circuits such as wiring points for power plugs, the length of points |  |  |
|  | (c) The lengths of sub-main, circuit wiring or any other type of wiring on linear basis shall include all |  |  |
| 4 | Cables - |  |  |
|  | (a) Cables shall be classified according to their voltage, materials, size and type of insulation, armouring, etc. Each type of cable shall be described and measured separately. |  |  |
|  | (b) The length measured shall be actual length fixed or laid including connections up to switch for all cables other than paper-insulated, lead-covered cables and up to the entry point of cables en-box of PILC cables. |  |  |
|  | (c) Cables shall be described and given in runningMeters. Terminal and joints boxes of various types shall be enumerated and measured separately according to their size and type. |  |  |
|  | (d) The mechanical protection for cables on walls or floors or underground shall be measured separately |  |  |
|  | (e) Manholes shall be described and enumerated separately. |  |  |
| 5 | Power wiring shall be done in steel conduit system. |  |  |
|  |  |  |  |
| The following Indian Standards may be referred to :- Chapter 1 to 8 |  |  |  |
|  |  |  |  |
|  | S.No. | Standards | Title Codes of Practice/ Guide |
|  | 1 | IS:732-1989 | Code of practice for electrical wiring installation |
|  | 2 | IS:4648-1968 | Guide for electrical layout in residential buildings. |
|  | 3 | IS:8061-1976 | Code of practice for design, installation and maintenance of service lines upto and including 650 V . |
|  | 4 | IS:8884-1978 | Code of practice for installation of electric bells and call system. |
|  | 5 | IS:5578-1985 | Guide for marking of insulated conductor. |
|  | 6 | IS:11353-1985 | Guide for uniform system of marking and identification of conductors and apparatus terminals. |
|  | 7 | IS:5728-1970 | Guide for short circuit calculations. |
|  | 8 | IS:7752 (Part-1)-1975 | Guide for improvement of power factor in consumer installation Low and medium supply voltage. |
|  | 9 | IS:10118(Part-1)-1982 | Code of practice for selection, installation and maintenance of switch gear and control gear General. |
|  | 10 | IS:10118(Part-2)-1982 | Code of practice for selection, installation and maintenance of switch gear and control gear selection. |
|  | 11 | IS:10118(Part-3)-1982 | Code of practice for selection, installation and maintenance of switch gear and control gear installation. |
|  | 12 | IS:10118(Part-4)-1982 | Code of practice for selection, installation and maintenance of switch gear and control gear maintenance. |


|  | 13 | IS:5216(Part-1)-1982 | Guide for safety procedures and practices in electrical work General. |
| :---: | :---: | :---: | :---: |
|  | 14 | IS:4237-1983 | General requirements for switch gear and control gear for voltages not exceeding 1000 V AC or 1200 V DC. |
|  | 15 | IS:6875(Part-1)-1973 | Control switches (switching devices control and auxiliary circuits including contractor relays) for voltages upto and including 100 VAC and 1200 V DC : General requirements and tests. |
|  | 16 | IS:6875(Part-2)-1973 | Control switches (switching devices for control and auxiliary circuits including contactor relays) for voltages upto and including 1000 V AC and 1200 V DC : Part 2 Push button and related control switches (Amendment 2). |
|  | 17 | IS:6875(Part-3)-1983 | Control switches (switching devices for control and auxiliary circuits including contactor relays) for voltages upto and including 1000 V AC and 1200 V DC: Rotary control switches. |
|  | 18 | IS:2675-1983 | Enclosed distribution fuse boards and cutouts for voltages not exceeding 1000 V . |
|  | 19 | IS:8828-1978 | Miniature air break circuit breakers for voltages not exceeding 1000 volt. |
|  | 20 | IS:13032-1991 | Miniature circuit breaker boards for voltages upto and including 1000 volts AC. |
|  | 21 | IS:12610-1988 | Residual current operated circuit breakers. |
|  | 22 | $\begin{aligned} & \text { IS:2516(Part-1/Sec. } 1 \\ & \text { 1985) } \end{aligned}$ | Circuit breakers: Requirements and test voltages not exceeding 1000 V AC or 1200 V DC. |
|  | 23 | IS:8623(Part1)-1977 | Factory built assemblies of switch gear and control gear for voltages upto and including 1000 V AC and 1200 V DC: General requirements. |
|  | 24 | IS:8623(Part-2)-1980 | Factory built assemblies of switch-gear and control gear for voltages upto and including 100 V AC and 1200 V DC: Particular requirements for bus bar trunking system (bus ways). |
|  | 25 | IS:694-1990 | PVC insulated cables for working voltages upto and including 1100 V/ |
|  | 26 | IS:3964(Part-2)-1968 | Recommended current ratings for cables PVC insulated light duty cables. |
|  | 27 | IS:1289(Part-1)-1984 | Flexible cables for lifts and other flexible connections : Elastomer insulated cables. |
|  | 28 | IS:9537(Part-1)-1980 | Conduits for electrical installations: General requirements. |
|  | 29 | IS:9537(Part-2)-1981 | Conduits for electrical installations: Rigid steel conduits |
|  | 30 | IS:3480-1966 | Flexible steel conduits for electrical wiring. |
|  | 31 | IS:2667-1988 | Fittings for rigid steel conduits for electrical wiring. |
|  | 32 | IS:3837-1976 | Accessories for rigid steel conduits for electrical wiring. |
|  | 33 | IS:9537(Part-4)-1983 | Conduits for electrical installation : Pliable self recovering conduits for insulating materials. |
|  | 34 | IS:6946-1973 | Flexible (pliable) non-metallic conduits for electrical installations. |
|  | 35 | IS:3419-1989 | Fittings for rigid non-metallic conduits. |
|  | 36 | IS:5133(Part-1)-1969 | Boxes for enclosure of electrical accessories: Steel and cast iron boxex. |
|  | 37 | IS:5133(Part-2)-1969 | Boxes for enclosure of electrical accessories : Boxes made of insulating materials. |
|  | 38 | IS:2412-1975 | Like clips for electrical wiring. |


|  | 39 | IS:371-1979 | Ceiling roses. |
| :--- | :--- | :--- | :--- |
|  | 40 | IS:3854-1988 | Switches for domestic and similar purposes. |
|  | 41 | IS:4615-1968 | Switch socket outlets (non-interlocking type). |
|  | 42 | IS:4160-1967 | Interlocking switch socket outlet. |
|  | 43 | IS:1293-1988 | Plugs and socket outlets of rated voltage upto and including 250 <br> volts and rated current upto and including 16 Amperes. |
|  | 44 | IS:2551-1982 | Danger notice plates. |
|  | 45 | IS:2448 (Part-1)-1963 | Adhesive insulating tapes for electric purposes: Tapes with cotton <br> textile subtraction. |
|  | 46 | IS:4770-1991 | Rubber gloves for electrical purposes. |
|  | 47 | IS:5424-1969 | Rubber mats for electrical purposes. (xv) |
|  | Note:- The above IS Codes shall be applicable with latest amendments if any. |  |  |



| S.No. | Description of Items | Unit | rate |
| :---: | :---: | :---: | :---: |
| 1.2 | Point Wiring in surface rigid P.V.C. conduit system with Modular |  |  |
|  | Point wiring including metallic switch box, sheet, switches, sockets, lamp holders/ceiling roses etc with 1.5 Sq . mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. conduit (MMS) ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting etc. as required as per specification for :- |  |  |
| 1.2.1 | Light Point/Fan Points. |  |  |
|  | a) Short point | Each | 324.00 |
|  | b) Medium point | Each | 551.00 |
|  | c) Long point | Each | 820.00 |
| 1.2.2 | 3 Pin 6 Amp socket outlet on Separate Board |  |  |
|  | a) Short point | Each | 369.00 |
|  | b) Medium point | Each | 596.00 |
|  | c) Long point | Each | 865.00 |
| 1.2.3 | Call Bell / Buzzer Points |  |  |
|  | a) Short point | Each | 327.00 |
|  | b) Medium point | Each | 560.00 |
|  | c) Long point | Each | 832.00 |
| 1.2.4 | Twin Control light points |  |  |
|  | a) Short point | Each | 324.00 |
|  | b) Medium point | Each | 592.00 |
|  | c) Long point | Each | 911.00 |
| 1.2.5 | Point wiring including metallic switch box, sheet, switches, sockets for 3 pin 6 Amp . Socket outlet point with $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. conduit (MMS) ISI marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board . | Each | 224.00 |
| 1.3 | WIRING IN CONCEALED RIGID PVC CONDUIT (HEAVY DUTY) SYSTEM WITH FLUSH TYPE ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet, switches, sockets, lamp holders/ceiling roses etc with $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI Marked of suitable size and 1.5 Sq . mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting etc. as required as per specification for :- |  |  |
| 1.3.1 | Light Point/Fan Points. |  |  |
|  | a) Short point | Each | 348.00 |
|  | b) Medium point | Each | 643.00 |
|  | c) Long point | Each | 982.00 |
|  |  |  |  |
| 1.3.2 | 3 Pin 6 Amp socket outlet on Separate Board |  |  |
|  | a) Short point | Each | 358.00 |
|  | b) Medium point | Each | 653.00 |
|  | c) Long point | Each | 991.00 |


| S.No. | Description of Items | Unit | rate |
| :---: | :---: | :---: | :---: |
| 1.3.3 | Call Bell / Buzzer Points |  |  |
|  | a) Short point | Each | 355.00 |
|  | b) Medium point | Each | 656.00 |
|  | c) Long point | Each | 997.00 |
| 1.3.4 | Twin Control light points |  |  |
|  | a) Short point | Each | 391.00 |
|  | b) Medium point | Each | 727.00 |
|  | c) Long point | Each | 1116.00 |
| 1.3.5 | Point wiring including metallic switch box, sheet, switches, sockets for 3 pin 6 Amp. Socket outlet point with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5 Sq . mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board . | Each | 128.00 |
| 1.3.6 | Circuit Wiring |  |  |
|  | Wiring for circuit wiring with PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) of ISI marked suitable size including painting etc. as required as per specification |  |  |
|  | a) $2 \times 2.5$ Sq.mm. | meter | 101.00 |
|  | b) $4 \times 2.5$ Sq.mm. | meter | 144.00 |
|  | c) $6 \times 2.5$ Sq.mm. | meter | 184.00 |
|  | d) $8 \times 2.5$ Sq.mm. | meter | 223.00 |
| 1.4 | WIRING IN CONCEALED RIGID PVC CONDUIT (HEAVY DUTY) SYSTEM WITH MODULER ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet, switche, socket, lamp holders/ceiling roses etc with $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting etc. as required as per specification for :- |  |  |
| 1.4.1 | Light Point/Fan Points. |  |  |
|  | a) Short point | Each | 394.00 |
|  | b) Medium point | Each | 689.00 |
|  | c) Long point | Each | 1027.00 |
|  |  |  |  |
| 1.4.2 | 3 Pin 6 Amp socket outlet on Separate Board |  |  |
|  | a) Short point | Each | 439.00 |
|  | b) Medium point | Each | 734.00 |
|  | c) Long point | Each | 1072.00 |
| 1.4.3 | Call Bell / Buzzer Points |  |  |
|  | a) Short point | Each | 396.00 |
|  | b) Medium point | Each | 698.00 |
|  | c) Long point | Each | 1039.00 |
|  |  |  |  |


| S.No. | Description of Items | Unit | rate |
| :---: | :---: | :---: | :---: |
| 1.4.4 | Twin Control light points |  |  |
|  | a) Short point | Each | 394.00 |
|  | b) Medium point | Each | 730.00 |
|  | c) Long point | Each | 1118.00 |
| 1.4.5 | Point wiring including metallic switch box, sheet, switche, socket for 3 pin 6 Amp. Socket outlet point with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board . | Each | 224.00 |
| 1.5 | POWER WIRING IN SURFACE RIGID P.V.C.CONDUIT (HEAVY DUTY) SYSTEM WITH FLUSH TYPE ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet, for 3 Pin 16 Amp. Socket Outlet Point With 4 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C.Conduit (HMS) ISI Marked of suitable size including painting etc. with 16 Amp. F.T. Switch \& Socket / S.S.Combined 16 Amp. of ISI Marked and 4 Sq. mm . PVC insulated copper earth continuity conductor of green colour inside conduit as per specification for :- |  |  |
| 1.5.1 | On Separate Board |  |  |
|  | A. Short Point | Each | 488.00 |
|  | B. Medium Point | Each | 821.00 |
|  | C. Long Point | Each | 1223.00 |
|  | D. Extra Long -I | Each | 1536.00 |
|  | E. Extra Long -II | Each | 2080.00 |
|  | F. Extra Long -III | Each | 2526.00 |
| 1.5.2 | Same board socket 16 Amp | Each | 300.00 |
| 1.5.3 | POWER WIRING IN SURFACE RIGID P.V.C.CONDUIT (HEAVY DUTY) SYSTEM WITH MODULAR ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet, for 3 Pin 16 Amp. Socket Outlet Point With $4 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C.Conduit (MMS) ISI Marked of suitable size including painting etc. with 16 Amp. F.T. Switch \& Socket / S.S.Combined 16 Amp. of ISI Marked and 4 Sq. mm . PVC insulated copper earth continuity conductor of green colour inside conduit as per specification for :- |  |  |
|  | On Separate Board |  |  |
|  | A. Short Point | Each | 760.00 |
|  | B. Medium Point | Each | 1094.00 |
|  | C. Long Point | Each | 1496.00 |
|  | D. Extra Long -I | Each | 1810.00 |
|  | E. Extra Long -II | Each | 2353.00 |
|  | F. Extra Long-III | Each | 2799.00 |
|  |  |  |  |
| 1.5.4 | Same board socket 16 Amp | Each | 560.00 |



| S.No. | Descripiton of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 2.2 | WIRING IN SURFACE RIGID STEEL CONDUIT SYSTEM WITH MODULAR ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet, switche, socket, lamp holders/ceiling roses etc with 1.5 Sq . mm. PVC insulated cable FR with copper multi strand conductor ISI marked in surface rigid steel conduit ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting, etc. as required as per specification for :- |  |  |
| 2.2.1 | Light Point/Fan Points. |  |  |
|  | a) Short point | Each | 416.00 |
|  | b) Medium point | Each | 771.00 |
|  | c) Long point | Each | 1188.00 |
| 2.2.2 | 3 Pin 6 Amp socket outlet on Separate Board |  |  |
|  | a) Short point | Each | 461.00 |
|  | b) Medium point | Each | 815.00 |
|  | c) Long point | Each | 1233.00 |
| 2.2.3 | Call Bell / Buzzer Points |  |  |
|  | a) Short point | Each | 419.00 |
|  | b) Medium point | Each | 780.00 |
|  | c) Long point | Each | 1200.00 |
| 2.2.4 | Twin Control light points |  |  |
|  | a) Short point | Each | 452.00 |
|  | b) Medium point | Each | 848.00 |
|  | c) Long point | Each | 1316.00 |
| 2.2.5 | Point wiring including metallic switch box, sheet, switche, socket for 3 pin 6 Amp. Socket outlet point with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in surface rigid steel conduit ISI marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board | Each | 224.00 |
| 2.3 | WIRING IN CONCEALED RIGID STEEL CONDUIT SYSTEM WITH FLUSH TYPE ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet, switche, socket, lamp holders/ceiling roses etc with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Concealed rigid steel conduit ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting, etc. as required as per specification for :- |  |  |
| 2.3.1 | Light Point/Fan Points. |  |  |
|  | a) Short point | Each | 440.00 |
|  | b) Medium point | Each | 862.00 |
|  | c) Long point | Each | 1350.00 |
| 2.3.2 | 3 Pin 6 Amp socket outlet on Separate Board |  |  |
|  | a) Short point | Each | 450.00 |
|  | b) Medium point | Each | 872.00 |
|  | c) Long point | Each | 1360.00 |


| S.No. | Descripiton of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 2.3.3 | Call Bell / Buzzer Points |  |  |
|  | a) Short point | Each | 446.00 |
|  | b) Medium point | Each | 875.00 |
|  | c) Long point | Each | 1366.00 |
| 2.3.4 | Twin Control light points |  |  |
|  | a) Short point | Each | 483.00 |
|  | b) Medium point | Each | 947.00 |
|  | c) Long point | Each | 1484.00 |
| 2.3.5 | Point wiring including metallic switch box, sheet, switche, socket for 3 pin 6 Amp. Socket outlet point with $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable FR with copper multi strand conductor ISI marked in Concealed rigid steel conduit ISI marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board | Each | 128.00 |
| 2.3.6 | Circuit Wiring |  |  |
|  | Wiring for circuit wiring with PVC insulated cable FR with copper multi strand conductor ISI marked in Concealed rigid steel conduit of ISI marked suitable size including painting etc. as required as per specification |  |  |
|  | a) $2 \times 2.5$ Sq.mm. | meter | 157.00 |
|  | b) $4 \times 2.5$ Sq.mm. | meter | 201.00 |
|  | c) $6 \times 2.5$ Sq.mm. | meter | 240.00 |
|  | d) $8 \times 2.5$ Sq.mm. | meter | 280.00 |
| 2.4 | WIRING IN CONCEALED RIGID STEEL CONDUIT SYSTEM WITH MODULAR ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet, switche, socket, lamp holders/ceiling roses etc with 1.5 Sq . mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Concealed rigid steel conduit ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting, etc. as required as per specification for :- |  |  |
| 2.4.1 | Light Point/Fan Points. |  |  |
|  | a) Short point | Each | 486.00 |
|  | b) Medium point | Each | 908.00 |
|  | c) Long point | Each | 1396.00 |
| 2.4.2 | 3 Pin 6 Amp socket outlet on Separate Board |  |  |
|  | a) Short point | Each | 531.00 |
|  | b) Medium point | Each | 953.00 |
|  | c) Long point | Each | 1441.00 |
| 2.4.3 | Call Bell / Buzzer Points |  |  |
|  | a) Short point | Each | 488.00 |
|  | b) Medium point | Each | 917.00 |
|  | c) Long point | Each | 1408.00 |
| 2.4.4 | Twin Control light points |  |  |
|  | a) Short point | Each | 486.00 |
|  | b) Medium point | Each | 949.00 |
|  | c) Long point | Each | 1487.00 |


| S.No. | Descripiton of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 2.4.5 | Point wiring including metallic switch box, sheet, switche, socket ) for 3 pin 6 Amp. Socket outlet point with $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable FR with copper multi strand conductor ISI marked in Concealed rigid steel conduit ISI marked of suitable size and 1.5 Sq . mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board | Each | 224.00 |
| 2.5 | POWER WIRING IN SURFACE RIGID STEEL CONDUIT SYSTEM WITH FLUSH TYPE ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet for 3 Pin 16 Amp. Socket Outlet Point With 4 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid Steel Conduit ISI Marked of suitable size including painting etc. with 16 Amp. Switch \& Socket / S.S.Combined 16 Amp. of ISI Marked and 4 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit as per specification for :- |  |  |
| 2.5.1 | On Separate Board |  |  |
|  | A. Short Point | Each | 579.00 |
|  | B. Medium Point | Each | 1041.00 |
|  | C. Long Point | Each | 1591.00 |
|  | D. Extra Long -I | Each | 2020.00 |
|  | E. Extra Long -II | Each | 2647.00 |
|  | F. Extra Long -III | Each | 3200.00 |
| 2.5.2 | Same board socket 16 Amp | Each | 183.00 |
| 2.5.3 | POWER WIRING IN SURFACE RIGID STEEL CONDUIT SYSTEM WITH MODULAR ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet for 3 Pin 16 Amp. Socket Outlet Point With 4 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid Steel Conduit ISI Marked of suitable size including painting etc. with 16 Amp. Switch \& Socket / S.S.Combined 16 Amp. of ISI Marked and 4 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit as per specification for :- |  |  |
|  | On Separate Board |  |  |
|  | A. Short Point | Each | 852.00 |
|  | B. Medium Point | Each | 1314.00 |
|  | C. Long Point | Each | 1865.00 |
|  | D. Extra Long -I | Each | 2292.00 |
|  | E. Extra Long -II | Each | 2920.00 |
|  | F. Extra Long -III | Each | 3473.00 |
|  |  |  |  |
| 2.5.4 | Same board socket 16 Amp | Each | 478.00 |


| S.No. | Descripiton of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 2.5.5 | POWER WIRING IN CONCEALED RIGID STEEL CONDUIT SYSTEM WITH FLUSH TYPE ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet for 3 Pin 16 Amp. Socket Outlet Point with 4 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Concealed rigid Steel Conduit ISI Marked of suitable size including painting etc. with 16 Amp. Switch \& Socket / S.S.Combined 16 Amp. of ISI Marked and 4 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit as per specification for :- |  |  |
|  | On Separate Board |  |  |
|  | A. Short Point | Each | 618.00 |
|  | B. Medium Point | Each | 1118.00 |
|  | C. Long Point | Each | 1716.00 |
|  | D. Extra Long -I | Each | 2167.00 |
|  | E. Extra Long -II | Each | 2578.00 |
|  | F. Extra Long -III | Each | 3017.00 |
| 2.5.6 | Same board socket 16 Amp | Each | 183.00 |
| 2.5.7 | POWER WIRING IN CONCEALED RIGID STEEL CONDUIT SYSTEM WITH MODULAR ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet for 3 Pin 16 Amp. Socket Outlet Point with 4 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Concealed rigid Steel Conduit ISI Marked of suitable size including painting etc. with 16 Amp. Switch \& Socket / S.S.Combined 16 Amp. of ISI Marked and 4 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit as per specification for :- |  |  |
|  | On Separate Board |  |  |
|  | A. Short Point | Each | 891.00 |
|  | B. Medium Point | Each | 1392.00 |
|  | C. Long Point | Each | 1989.00 |
|  | D. Extra Long -I | Each | 2440.00 |
|  | E. Extra Long -II | Each | 2851.00 |
|  | F. Extra Long -III | Each | 3291.00 |
| 2.5.8 | Same board socket 16 Amp | Each | 478.00 |
| 2.6 | SUPPLYING AND FIXING RIGID STEEL CONDUIT FOR SURFACE CONDUIT SYSTEM |  |  |
|  | Supplying and fixing rigid steel conduit ISI marked alongwith the accessories on surface including painting etc. as required |  |  |
| 1 | H.G. Conduit 20 mm , wall thickness-1.6mm | meter | 94.00 |
| 2 | H.G. Conduit 25 mm , wall thickness-1.6mm | meter | 104.00 |
| 3 | H.G. Conduit 32 mm , wall thickness-1.6mm | meter | 113.00 |
| 4 | H.G. Conduit 40 mm , wall thickness-2.0mm | meter | 133.00 |
| 5 | H.G. Conduit 50 mm , wall thickness-2.0mm | meter | 172.00 |


| S.No. | Descripiton of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 2.7 | SUPPLYING AND FIXING RIGID STEEL CONDUIT FOR CONCEALED CONDUIT SYSTEM |  |  |
|  | Supplying and fixing rigid steel conduit ISI marked alongwith the accessories in concealed system including cutting the wall and plastering \& repainting the wall with matching colour to bring in its original condition as required |  |  |
| 1 | H.G. Conduit 20 mm , wall thickness-1.6mm | meter | 115.00 |
| 2 | H.G. Conduit 25 mm , wall thickness-1.6mm | meter | 126.00 |
| 3 | H.G. Conduit 32 mm , wall thickness-1.6mm | meter | 134.00 |
| 4 | H.G. Conduit 40 mm , wall thickness-2.0mm | meter | 154.00 |
| 5 | H.G. Conduit 50 mm , wall thickness-2.0mm | meter | 193.00 |
| 2.8 | METALLIC SWITCH BOXES |  |  |
|  | Supplying and fixing factory fabricated hot dip galvanised switch box for normal flush type accessories of minimum 1.2 mm (18 swg gauge) thickness with earth terminal stud with nut and washer, with 3 mm thick synthetic phenollic resin bonded laminated sheet conforming to grade $P$. I of IS:2036-1974 on surface / concealed including painting etc. as required as per specification: |  |  |
| 1 | MSBox $100 \mathrm{~mm} \times 100 \mathrm{~mm}$ X60mm deep | Each | 72.00 |
| 2 | MS Box $200 \mathrm{~mm} \times 150 \mathrm{~mm} \times 60 \mathrm{~mm}$ Deep | Each | 118.00 |
| 3 | MS Box $180 \mathrm{~mm} \times 100 \mathrm{~mm} \times 60 \mathrm{~mm}$ Deep | Each | 90.00 |
| 4 | MS Box $200 \mathrm{~mm} \times 125 \mathrm{~mm} \times 60 \mathrm{~mm}$ Deep | Each | 113.00 |
| 5 | MS Box $200 \mathrm{~mm} \times 250 \mathrm{~mm} \times 60 \mathrm{~mm}$ Deep | Each | 156.00 |
| 6 | MS Box $250 \mathrm{~mm} \times 300 \mathrm{~mm} \times 60 \mathrm{~mm}$ Deep | Each | 201.00 |
| 7 | MS Box $200 \mathrm{~mm} \times 300 \mathrm{~mm} \mathrm{X} 60 \mathrm{~mm}$ Deep | Each | 175.00 |
| 2.9 | MODULAR SWITCH BOXES |  |  |
|  | Supplying and fixing of approved make modular type metal box with modular frame/ base plate and cover plate including fixing in concealed / surface excluding switch,socket etc. as required for:- |  |  |
| 1 | 1 Or 2 Module | Each | 90.00 |
| 2 | 4 Module | Each | 153.00 |
| 3 | 6 Module | Each | 155.00 |
| 4 | 8 Module | Each | 180.00 |
| 5 | 12 Module | Each | 228.00 |


| CHAPTER -3 |  |  |  |
| :---: | :---: | :---: | :---: |
| Wiring in surface rigid P.V.C. casing capping system |  |  |  |
|  |  |  |  |
| S.No. | Description of Items | Unit | Rate |
| 3.1 | WIRING IN SURFACE RIGID PVC CASING AND CAPPING SYSTEM WITH FLUSH TYPE ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet, switche, socket, lamp holders/ceiling roses etc with $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. CASING AND CAPPING ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside casing \& capping including painting etc. as required as per specification for :- |  |  |
| 3.1.1 | Light Point/Fan Points. |  |  |
| 1 | a) Short point | Each | 240.00 |
| 2 | b) Medium point | Each | 426.00 |
| 3 | c) Long point | Each | 647.00 |
|  |  |  |  |
| 3.1.2 | 3 Pin 6 Amp socket outlet on Separate Board |  |  |
| 1 | a) Short point | Each | 250.00 |
| 2 | b) Medium point | Each | 435.00 |
| 3 | c) Long point | Each | 657.00 |
|  |  |  |  |
| 3.1.3 | Call Bell / Buzzer Points |  |  |
| 1 | a) Short point | Each | 246.00 |
| 2 | b) Medium point | Each | 432.00 |
| 3 | c) Long point | Each | 653.00 |
|  |  |  |  |
| 3.1.4 | Twin Control light points |  |  |
| 1 | a) Short point | Each | 283.00 |
| 2 | b) Medium point | Each | 504.00 |
| 3 | c) Long point | Each | 772.00 |
| 3.1.5 | Point wiring including metallic switch box, sheet, switche, socket for 3 pin 6 Amp. Socket outlet point with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. CASING AND CAPPING ISI marked of suitable size and $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated copper earth continuity conductor of green colour inside casing \& caping with required materials as per specification on same board | Each | 128.00 |
| 3.1.6 | Circuit Wiring |  |  |
|  | Wiring for circuit wiring with PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. CASING AND CAPPING of ISI marked suitable size including painting etc. as required as per specification |  |  |
| 1 | a) $2 \times 2.5$ Sq.mm. | meter | 78.00 |
| 2 | b) $4 \times 2.5 \mathrm{Sq} . \mathrm{mm}$. | meter | 122.00 |
| 3 | c) $6 \times 2.5 \mathrm{Sq} . \mathrm{mm}$. | meter | 161.00 |
| 4 | d) $8 \times 2.5$ Sq.mm. | meter | 200.00 |
|  |  |  |  |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 3.2 | WIRING IN SURFACE RIGID PVC CASING AND CAPPING SYSTEM WITH MODULAR ACCESSORIES |  |  |
|  | Point wiring including metallic switch box, sheet, switche, socket, lamp holders/ceiling roses etc with $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. CASING AND CAPPING ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside casing \& capping including painting etc. as required as per specification for :- |  |  |
| 3.2.1 | Light Point/Fan Points. |  |  |
| 1 | a) Short point | Each | 286.00 |
| 2 | b) Medium point | Each | 472.00 |
| 3 | c) Long point | Each | 693.00 |
|  |  |  |  |
| 3.2.2 | 3 Pin 6 Amp socket outlet on Separate Board |  |  |
| 1 | a) Short point | Each | 331.00 |
| 2 | b) Medium point | Each | 517.00 |
| 3 | c) Long point | Each | 738.00 |
| 3.2.3 | Call Bell / Buzzer Points |  |  |
| 1 | a) Short point | Each | 288.00 |
| 2 | b) Medium point | Each | 474.00 |
| 3 | c) Long point | Each | 695.00 |
| 3.2.4 | Twin Control light points |  |  |
| 1 | a) Short point | Each | 286.00 |
| 2 | b) Medium point | Each | 506.00 |
| 3 | c) Long point | Each | 774.00 |
| 3.2.5 | Point wiring including metallic switch box, sheet, switche, socket for 3 pin 6 Amp. Socket outlet point with $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. CASING AND CAPPING ISI marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside casing \& caping with required materials as per specification on same board | Each | 224.00 |
| 3.3 | Power Wiring in PVC Casing Caping System with Flush Type Accessories <br> Point wiring including metallic switch box, sheet for 3 Pin 16 Amp. Socket Outlet Point With 4 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C.CASING AND CAPPING ISI Marked of suitable size including painting etc. with 16 Amp. F.T. Switch \& Socket / S.S.Combined 16 Amp. of ISI Marked and 4 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside capping as per specification for :- |  |  |
|  |  |  |  |
| 3.3.1 | On Separate Board |  |  |
|  | A. Short Point | Each | 448.00 |
|  | B. Medium Point | Each | 742.00 |
|  | C. Long Point | Each | 1096.00 |


| S.No. | Description of Items | Unit | Rate |
| :--- | :--- | :---: | :---: |
|  | D. Extra Long -I | Each | 1371.00 |
|  | E. Extra Long -II | Each | 1808.00 |
|  | F. Extra Long -III | Each | 2300.00 |
| 3.3 .2 | Same board socket 16 Amps | 183.00 |  |
| 3.3 .3 | Power Wiring in PVC Casing Caping System with Mobular Accessories |  |  |
|  | Point wiring including metallic switch box, sheet for 3 Pin 16 Amp. <br> Socket Outlet Point With 4 Sq. mm. PVC insulated cable FR with <br> copper multi strand conductor IS marked in Surface rigid P.V.C.CASING <br> AND CAPPING ISI Marked of suitable size including painting etc. with 16 <br> Amp. F.T. Switch \& Socket / S.S.Combined 16 Amp. of ISI Marked and 4 <br> Sq. mm. PVC insulated copper earth continuity conductor of green colour <br> inside capping as per specification for :- |  |  |
|  | On Separate Board |  |  |
|  | A. Short Point | B. Medium Point | Each |
|  | C. Long Point | 721.00 |  |
|  | D. Extra Long -I | Each | 1015.00 |
|  | E. Extra Long -II | Each | 1369.00 |
|  | F. Extra Long -III | Each | 1644.00 |
| 3.3 .4 | Same board socket 16 Amps | Each | 2032.00 |
|  | Each | 2495.00 |  |


| CHAPTER - 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Wiring in existing/conduit/P.V.C. casing capping system |  |  |  |
| S.No. | Description of Items | Unit | Rate |
| 4.1 | Point Wiring in Existing Surface rigid Conduit System with Flush Type Accessories. |  |  |
|  | Point wiring (excluding metallic switch box, but including sheet, switches, sockets,lamp holders/ceiling roses etc) with $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable with Copper Stranded Conductor ISI marked in existing surface rigid conduit ISI Marked of suitable size with PVC insulated copper earth continuity conductor of green colour as per specification including earthing of regulator etc as required for :- |  |  |
| 4.1.1 | Light Point / Fan Points. |  |  |
| 1 | a) Short point | Each | 183.00 |
| 2 | b) Medium point | Each | 328.00 |
| 3 | c) Long point | Each | 497.00 |
| 4.1.2 | 3 Pin 6 Amp socket outlet on Serarate Board |  |  |
| 1 | a) Short point | Each | 193.00 |
| 2 | b) Medium point | Each | 337.00 |
| 3 | c) Long point | Each | 507.00 |
| 4.1.3 | Call Bell / Buzzer Points |  |  |
| 1 | a) Short point | Each | 189.00 |
| 2 | b) Medium point | Each | 334.00 |
| 3 | c) Long point | Each | 504.00 |
| 4.1.4 | Twin Control light points |  |  |
| 1 | a) Short point | Each | 226.00 |
| 2 | b) Medium point | Each | 406.00 |
| 3 | c) Long point | Each | 622.00 |
| 4.2 | POINT WIRING IN EXISTING SURFACE RIGID CONDUIT SYSTEM WITH MODULAR ACCESSORIES |  |  |
|  | Point wiring (excluding metallic switch box, but including sheet, switches, sockets,lamp holders/ceiling roses etc) with $1.5 \mathrm{Sq} . \mathrm{mm}$. PVC insulated cable with Copper Stranded Conductor ISI marked in existing surface rigid conduit ISI Marked of suitable size with PVC insulated copper earth continuity conductor of green colour as per specification including earthing of regulator etc as required for :- |  |  |
| 4.2.1 | Light Point / Fan Points. |  |  |
| 1 | a) Short point | Each | 236.00 |
| 2 | b) Medium point | Each | 381.00 |
| 3 | c) Long point | Each | 551.00 |
|  |  |  |  |
| 4.2.2 | 3 Pin 6 Amp socket outlet on Serarate Board |  |  |
| 1 | a) Short point | Each | 281.00 |
| 2 | b) Medium point | Each | 426.00 |
| 3 | c) Long point | Each | 596.00 |
|  |  |  |  |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 4.2.3 | Call Bell / Buzzer Points |  |  |
| 1 | a) Short point | Each | 239.00 |
| 2 | b) Medium point | Each | 383.00 |
| 3 | c) Long point | Each | 553.00 |
| 4.2.4 | Twin Control light points |  |  |
| 1 | a) Short point | Each | 236.00 |
| 2 | b) Medium point | Each | 416.00 |
| 3 | c) Long point | Each | 632.00 |
| 4.3 | CIRCUIT WIRING IN EXISTING CONDUIT / PVC CASING CAPPING |  |  |
|  | Supplying and drawing single core PVC insulated cable FR with copper multi strand conductor ISI marked in existing rigid conduit in surface or concealed as per specification. |  |  |
| 4.3.1 | 1.5 Sq mm cable |  |  |
| 1 | $1 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 23.00 |
| 2 | $2 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 45.00 |
| 3 | $3 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 68.00 |
| 4 | $4 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 91.00 |
| 5 | $5 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 114.00 |
| 6 | $6 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 136.00 |
| 7 | $7 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 159.00 |
| 8 | $8 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 182.00 |
| 9 | $9 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 204.00 |
| 10 | $10 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 227.00 |
|  |  |  |  |
| 4.3.2 | 2.5 Sq mm cable |  |  |
| 1 | $1 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 30.00 |
| 2 | $2 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 61.00 |
| 3 | $3 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 91.00 |
| 4 | $4 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 121.00 |
| 5 | $5 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 151.00 |
| 6 | $6 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 182.00 |
| 7 | $7 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 212.00 |
| 8 | $8 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 242.00 |
| 9 | $9 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 272.00 |
| 10 | $10 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 303.00 |
|  |  |  |  |
| 4.3.3 | 4.00 Sq mm cable |  |  |
| 1 | $1 \times 4.00 \mathrm{sq} \mathrm{mm}$ | meter | 39.00 |
| 2 | $2 \times 4.00 \mathrm{sq} \mathrm{mm}$ | meter | 79.00 |
| 3 | $3 \times 4.00 \mathrm{sq} \mathrm{mm}$ | meter | 118.00 |
| 4 | $4 \times 4.00 \mathrm{sq} \mathrm{mm}$ | meter | 157.00 |
| 5 | $5 \times 4.00 \mathrm{sq} \mathrm{mm}$ | meter | 197.00 |
| 6 | $6 \times 4.00 \mathrm{sq} \mathrm{mm}$ | meter | 236.00 |
| 7 | $7 \times 4.00 \mathrm{sq} \mathrm{mm}$ | meter | 275.00 |
| 8 | $8 \times 4.00 \mathrm{sq} \mathrm{mm}$ | meter | 315.00 |
| 9 | $9 \times 4.00 \mathrm{sq} \mathrm{mm}$ | meter | 354.00 |
| 10 | $10 \times 4.00 \mathrm{sq} \mathrm{mm}$ | meter | 393.00 |
|  |  |  |  |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 4.3 .4 | 6.00 Sq mm cable |  |  |
| 1 | $1 \times 6.00 \mathrm{sq} \mathrm{mm}$ | meter | 55.00 |
| 2 | $2 \times 6.00 \mathrm{sq} \mathrm{mm}$ | meter | 109.00 |
| 3 | $3 \times 6.00 \mathrm{sq} \mathrm{mm}$ | meter | 164.00 |
| 4 | $4 \times 6.00 \mathrm{sq} \mathrm{mm}$ | meter | 219.00 |
| 5 | $5 \times 6.00 \mathrm{sq} \mathrm{mm}$ | meter | 274.00 |
| 6 | $6 \times 6.00 \mathrm{sq} \mathrm{mm}$ | meter | 328.00 |
| 7 | $7 \times 6.00 \mathrm{sq} \mathrm{mm}$ | meter | 383.00 |
| 8 | $8 \times 6.00 \mathrm{sq} \mathrm{mm}$ | meter | 438.00 |
| 9 | $9 \times 6.00 \mathrm{sq} \mathrm{mm}$ | meter | 493.00 |
| 10 | $10 \times 6.00 \mathrm{sq} \mathrm{mm}$ | meter | 548.00 |



| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 5.2 | SUB-MAIN IN CONCEALED RIGID STEEL CONDUIT IN COPPER CONDUCTOR |  |  |
|  | Wiring for sub-mains with PVC insulated cable FR with copper multi strand conductor ISI marked in recessed / concealed rigid steel ISI marked conduit of suitable size(Conduit included) including connection painting etc ,as required as per specification |  |  |
| 5.2.1 | 2 WIRE SUB-MAIN |  |  |
| 1 | 2.5 sq mm cable in 20 mm conduit | meter | 176.00 |
| 2 | 4.0 sq mm cable in 20 mm conduit | meter | 196.00 |
| 3 | 6.0 sq mm cable in 25 mm conduit | meter | 241.00 |
| 4 | 10.0 sq mm cable in 25 mm conduit | meter | 317.00 |
| 5 | 16.0 sq mm cable in 25 mm conduit | meter | 422.00 |
| 6 | 25.0 sq mm cable in 32 mm conduit | meter | 601.00 |
| 7 | 35.0 sq mm cable in 40 mm conduit | meter | 775.00 |
| 8 | 50.0 sq mm cable in 50 mm conduit | meter | 1132.00 |
|  |  |  |  |
| 5.2.2 | 3 WIRE SUB-MAIN |  |  |
| 1 | 2.5 sq mm cable in 20 mm conduit | meter | 197.00 |
| 2 | 4.0 sq mm cable in 20 mm conduit | meter | 227.00 |
| 3 | 6.0 sq mm cable in 25 mm conduit | meter | 288.00 |
| 4 | 10.0 sq mm cable in 25 mm conduit | meter | 402.00 |
| 5 | 16.0 sq mm cable in 25 mm conduit | meter | 560.00 |
| 6 | 25.0 sq mm cable in 32 mm conduit | meter | 824.00 |
| 7 | 35.0 sq mm cable in 40 mm conduit | meter | 1074.00 |
| 8 | 50.0 sq mm cable in 50 mm conduit | meter | 1590.00 |
|  |  |  |  |
| 5.2.3 | $31 / 2$ WIRE SUB-MAIN |  |  |
| 1 | $3 \times 2.5+1 \times 1.5 \mathrm{sq} \mathrm{mm}$ cable in 20 mm conduit | meter | 210.00 |
| 2 | $3 \times 4.0+1 \times 2.5 \mathrm{sq} \mathrm{mm}$ cable in 25 mm conduit | meter | 259.00 |
| 3 | $3 \times 6.0+1 \times 4.0 \mathrm{sq} \mathrm{mm}$ cable in 25 mm conduit | meter | 319.00 |
| 4 | $3 \times 10.0+1 \times 6.0 \mathrm{sq} \mathrm{mm}$ cable in 25 mm conduit | meter | 449.00 |
| 5 | $3 \times 16.0+1 \times 10.0$ sq mm cable in 32 mm conduit | meter | 654.00 |
| 6 | $3 \times 25.0+1 \times 16.0$ sq mm cable in 50 mm conduit | meter | 418.00 |
| 7 | $3 \times 35.0+1 \times 16.0$ sq mm cable in 50 mm conduit | meter | 1253.00 |
|  |  |  |  |
| 5.2.4 | 4 WIRE SUB-MAIN |  |  |
| 1 | 2.5 sq mm cable in 20 mm conduit | meter | 218.00 |
| 2 | 4.0 sq mm cable in 20 mm conduit | meter | 269.00 |
| 3 | 6.0 sq mm cable in 25 mm conduit | meter | 335.00 |
| 4 | 10.0 sq mm cable in 25 mm conduit | meter | 487.00 |
| 5 | 16.0 sq mm cable in 25 mm conduit | meter | 707.00 |
| 6 | 25.0 sq mm cable in 32 mm conduit | meter | 1069.00 |
| 7 | 35.0 sq mm cable in 40 mm conduit | meter | 1414.00 |


| CHAPTER - 6 |  |  |  |
| :---: | :---: | :---: | :---: |
| Rewiring in existing conduit. |  |  |  |
| S.No. | Description of Items | Unit | RATE |
| 6 | REWIRING IN EXISTING RIGID STEEL / PVC NON METALLIC CONDUIT WITH COPPER CONDUCTOR |  |  |
|  | Rewiring in existing surface /concealed rigid steel /PVC non metalic conduit with PVC insulated cable FR with copper multi strand conductor ISI marked and other materials as required including replacement of worn-out /damaged/missing material, painting etc. complete as per specification. This shall include all work, arrangement required for wiring but shall exclude switch, ceiling rose fitting etc. |  |  |
| 6.1 | Light/Fan/3Pin 6AMP socket outlet on separate board / Call Bell/ Buzzer Points :- |  |  |
| 1 | Short Point | Each | 146.00 |
| 2 | Medium Point | Each | 291.00 |
| 3 | Long Point | Each | 461.00 |
| 6.2 | Twin Control Light Point |  |  |
| 1 | Short Point | Each | 181.00 |
| 2 | Medium Point | Each | 361.00 |
| 3 | Long Point | Each | 577.00 |
| 6.3 | Circuit Wiring |  |  |
| 1 | $2 \times 1.5 \mathrm{Sq} \mathrm{mm}$. | meter | 25.00 |
| 2 | $2 \times 2.5 \mathrm{Sq} \mathrm{mm}$. | meter | 68.00 |
| 6.4 | 3 Pin 5 Amp Socket Outlet Point on Same Board |  |  |
| 1 | 3 Pin 5 Amp Socket Outlet Point on Same Board with flush type accessires | Each | 161.00 |
| 2 | 3 Pin 5 Amp Socket Outlet Point on Same Board with modular accessires | Each | 224.00 |
| 6.5 | 2 WIRE SUB-MAIN |  |  |
| 1 | $2 \times 2.5 \mathrm{Sq} \mathrm{mm}$ | meter | 52.00 |
| 2 | $2 \times 4.00 \mathrm{Sq} \mathrm{mm}$ | meter | 70.00 |
| 3 | $2 \times 6.00 \mathrm{Sq} \mathrm{mm}$ | meter | 101.00 |
| 4 | $2 \times 10.0$ Sq mm | meter | 172.00 |
| 5 | $2 \times 16.00 \mathrm{Sq} \mathrm{mm}$ | meter | 271.00 |
| 6 | $2 \times 25.00 \mathrm{Sq} \mathrm{mm}$ | meter | 430.00 |
| 7 | $2 \times 35.00 \mathrm{Sq} \mathrm{mm}$ | meter | 572.00 |
| 8 | $2 \times 50.00 \mathrm{Sq} \mathrm{mm}$ | meter | 867.00 |
| 6.6 | 3 WIRE SUB-MAIN |  |  |
| 1 | $3 \times 2.5 \mathrm{Sq} \mathrm{mm}$ | meter | 71.00 |
| 2 | $3 \times 4.0 \mathrm{Sq} \mathrm{mm}$ | meter | 99.00 |
| 3 | $3 \times 6.0 \mathrm{Sq} \mathrm{mm}$ | meter | 145.00 |
| 4 | $3 \times 10.0 \mathrm{Sq} \mathrm{mm}$ | meter | 252.00 |
| 5 | $3 \times 16.0$ Sq mm | meter | 400.00 |
| 6 | $3 \times 25.0 \mathrm{Sq} \mathrm{mm}$ | meter | 638.00 |
| 7 | $3 \times 35.0$ Sq mm | meter | 851.00 |


| S.No. | Description of Items | Unit | RATE |
| :---: | :---: | :---: | :---: |
| 8 | $3 \times 50.0 \mathrm{Sq} \mathrm{mm}$ | meter | 1295.00 |
| 6.7 | $31 / 2$ WIRE SUB-MAIN |  |  |
| 1 | a) $3 \times 2.5+1 \times 1.5 \mathrm{sq} \mathrm{mm}$ | meter | 83.00 |
| 2 | b) $3 \times 4.0+1 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 118.00 |
| 3 | c) $3 \times 6.0+1 \times 4.0 \mathrm{sq} \mathrm{mm}$ | meter | 174.00 |
| 4 | d) $3 \times 10.0+1 \times 6.0 \mathrm{sq} \mathrm{mm}$ | meter | 296.00 |
| 5 | e) $3 \times 16.0+1 \times 10.0 \mathrm{sq} \mathrm{mm}$ | meter | 479.00 |
| 6 | f) $3 \times 25.0+1 \times 16.0 \mathrm{sq} \mathrm{mm}$ | meter | 200.00 |
| 7 | g) $3 \times 35.0+1 \times 16.0 \mathrm{sq} \mathrm{mm}$ | meter | 980.00 |
|  |  |  |  |
| 6.8 | 4 WIRE SUB-MAIN |  |  |
| 1 | $4 \times 2.5 \mathrm{sq} \mathrm{mm}$ | meter | 91.00 |
| 2 | $4 \times 4.0 \mathrm{sq} \mathrm{mm}$ | meter | 127.00 |
| 3 | $4 \times 6.0$ sq mm | meter | 190.00 |
| 4 | $4 \times 10.0 \mathrm{sq} \mathrm{mm}$ | meter | 331.00 |
| 5 | $4 \times 16.0 \mathrm{sq} \mathrm{mm}$ | meter | 528.00 |
| 6 | 4 X 25.0 sq mm | meter | 846.00 |
| 7 | $4 \times 35.0$ sq mm | meter | 1130.00 |
| 8 | $4 \times 50.00 \mathrm{sq} \mathrm{mm}$ | meter | 1722.00 |


| CHAPTER-7 |  |  |  |
| :---: | :---: | :---: | :---: |
| Control switch gear/Bus bar. |  |  |  |
|  |  |  |  |
| S.No. | Description of Items | Unit | Rate |
| 7.1 | Suppyling of ISI Marked Switch Fuse Unit (rewirable type ) triple pole with neutral link , 415 Volt having conduit / cable gland entry with two earthing terminals confirming to IS : 13947(Part I \& III) |  |  |
| 1 | 16 Amps. | Each | 1065.00 |
| 2 | 32 Amps. | Each | 1478.00 |
| 3 | 63 Amps. | Each | 3096.00 |
| 4 | 100 Amps. | Each | 5769.00 |
| 5 | 200 Amps. | Each | 9360.00 |
| 6 | 320 Amps. | Each | 12929.00 |
| 7.2 | Supplying of ISI Marked iron clad / metal clad triple pole and neutral switch fuse unit with two earthing terminals \& without HRC fuses -- |  |  |
| 1 | 16 Amps. 415/500 Volts. | Each | 972.00 |
| 2 | 32 Amps. 415/500 Volts. | Each | 1358.00 |
| 3 | 63 Amps. 415/500 Volts. | Each | 2906.00 |
| 4 | 100 Amps. 415/500 Volts. | Each | 5427.00 |
| 5 | 200 Amps. 415/500 Volts. | Each | 7757.00 |
| 6 | 400 Amps. 415/500 Volts. | Each | 14760.00 |
| 7 | 500 Amps. 415/500 Volts. | Each | 17927.00 |
| 8 | 600 Amps. 415/500 Volts. | Each | 21403.00 |
| 7.3 | Supplying of ISI Marked Change over switches in sheet encloser confirming to IS : 4064 / IS : 13947 (part I \& III) with side handle operated 4 pole with two earthing terminals |  |  |
| 1 | 16 Amps. 415/500 Volts. (on load ) | Each | 1717.00 |
| 2 | 32 Amps. 415/500 Volts.(on load ) | Each | 2064.00 |
| 3 | 63 Amps. 415/500 Volts.(on load ) | Each | 4199.00 |
| 4 | 100 Amps. 415/500 Volts.(on load ) | Each | 8447.00 |
| 5 | 200 Amps. 415/500 Volts.( off load ) | Each | 12087.00 |
| 6 | 320 Amps. 415/500 Volts.( off load ) | Each | 15376.00 |
| 7 | 400 Amps. 415/500 Volts.( off load ) | Each | 20052.00 |
| 8 | 630 Amps. 415/500 Volts.( off load ) | Each | 30774.00 |
| 9 | 800 Amps. 415/500 Volts.( off load ) | Each | 38368.00 |
| 7.4 | Supplying of ISI Marked On-Load Change over switches panel mouniting type confirming to IS : 13947 (part I \& III ) with front operated 4 pole, 415 V with two earthing terminals if required. |  |  |
| 1 | 40 Amps. (open - execution) | Each | 3770.00 |
| 2 | 63 Amps. (open - execution) | Each | 3971.00 |
| 3 | 100 Amps. (open - execution) | Each | 5068.00 |
| 4 | 125 Amps. .(open - execution ) | Each | 7578.00 |
| 5 | 160 Amps. (open - execution) | Each | 7846.00 |
| 6 | 200 Amps. (open - execution) | Each | 9653.00 |
| 7 | 250 Amps. (open - execution) | Each | 13798.00 |
| 8 | 320 Amps. .(open - execution) | Each | 14591.00 |
| 9 | 400 Amps. .(open - execution ) | Each | 21251.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 10 | 630 Amps. .(open - execution ) | Each | 24592.00 |
| 11 | 800 Amps. .(open - execution ) | Each | 35424.00 |
| 12 | 40 Amps. (With enclosure ) | Each | 5101.00 |
| 13 | 63 Amps . (With enclosure ) | Each | 5530.00 |
| 14 | 100 Amps.(With enclosure ) | Each | 6568.00 |
| 15 | 125 Amps. .(With enclosure ) | Each | 9268.00 |
| 16 | 160 Amps. .(With enclosure ) | Each | 11261.00 |
| 17 | 200 Amps. .(With enclosure ) | Each | 12424.00 |
| 18 | 320 Amps. .(With enclosure ) | Each | 18497.00 |
| 19 | 400 Amps. .(With enclosure ) | Each | 25575.00 |
| 20 | 630 Amps. .(With enclosure ) | Each | 29351.00 |
| 21 | 800 Amps. .(With enclosure ) | Each | 41655.00 |
| 7.5 | Supplying of ISI Marked AutomaticTransfer Switches (ATS) confirming to IEC : 60947-1 \& IEC : 60947-6-1 with automatic inbuilt time delay 4 pole, 415 V with two earthing terminals if |  |  |
| 1 | 100 Amp (open execution) | Each | 29758.00 |
| 2 | 160 Amp (open execution) | Each | 38515.00 |
| 3 | 200 Amp (open execution ) | Each | 47620.00 |
| 4 | 315 Amp (open execution) | Each | 56366.00 |
| 5 | 400 Amp (open execution ) | Each | 69066.00 |
| 6 | 630 Amp (open execution ) | Each | 85266.00 |
| 7 | 100 Amp (with enclosure ) | Each | 32567.00 |
| 8 | 160 Amp (with enclosure ) | Each | 41318.00 |
| 9 | 200 Amp (with enclosure ) | Each | 50423.00 |
| 10 | 315 Amp (with enclosure ) | Each | 59180.00 |
| 11 | 400 Amp (with enclosure ) | Each | 74499.00 |
| 12 | 630 Amp (with enclosure ) | Each | 90693.00 |
| 7.6 | Supplying of Two Way Centre off MCB Changeover Switch confirming to IS:13947 (part III ) / IEC : 60947-3, $2 / 4$ pole ,AC 240 / 415 Volt, 50 Hz |  |  |
| 1 | 25 Amps, Double Pole (DP) | Each | 837.00 |
| 2 | 40 Amps, Double Pole (DP) | Each | 1135.00 |
| 3 | 25 Amps, Four Pole (FP) | Each | 1461.00 |
| 4 | 40 Amps, Four Pole (FP) | Each | 2216.00 |
| 7.7 | Supplying of ISI Marked Switch Disconnector Fuse (SDF), open execution (Panel mounting cubicle type) confirming to IS:13947 (part I \& III ) 2 pole , AC -23A ,50 Hz , 415 Volt with 2 HBC fuses complete. |  |  |
| 1 | 32 Amps | Each | 1570.00 |
| 2 | 63 Amps | Each | 2097.00 |
| 3 | 100 Amps | Each | 3960.00 |
| 4 | 125 Amps | Each | 4362.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 7.8 | Supplying of ISI Marked Switch Disconnector Fuse (SDF), in sheet steel enclosure (Panel mounting cubicle type) confirming to IS:13947 (part I \& III ) 2 pole , AC -23A ,50 Hz , 415 Volt with 2 HBC fuses complete. |  |  |
| 1 | 32 Amps | Each | 2086.00 |
| 2 | 63 Amps | Each | 2602.00 |
| 3 | 100 Amps | Each | 4498.00 |
| 4 | 125 Amps | Each | 4900.00 |
| 7.9 | Supplying of ISI Marked Switch Disconnector Fuse (SDF), open execution (Panel mounting cubicle type) confirming to IS:13947 (part I \& III ) 3 pole and neutral , AC -23A , $50 \mathrm{~Hz}, 415$ Volt with 3 HBC fuses complete. |  |  |
| 1 | 32 Amps | Each | 1814.00 |
| 2 | 63 Amps | Each | 2428.00 |
| 3 | 100 Amps | Each | 4254.00 |
| 4 | 125 Amps | Each | 5019.00 |
| 5 | 160 Amps | Each | 6475.00 |
| 6 | 200 Amps | Each | 6790.00 |
| 7 | 250 Amps | Each | 7986.00 |
| 8 | 320 Amps | Each | 10517.00 |
| 9 | 400 Amps | Each | 12494.00 |
| 10 | 630 Amps | Each | 19855.00 |
| 7.10 | Supplying of ISI Marked Switch Disconnector Fuse (SDF), in sheet steel enclosure (Panel mounting cubicle type) confirming to IS:13947 (part I \& III ) 3 pole and neutral , AC $-23 \mathrm{~A}, 50 \mathrm{~Hz}$, 415 Volt with 3 HBC fuses complete. |  |  |
| 1 | 32 Amps | Each | 2694.00 |
| 2 | 63 Amps | Each | 3183.00 |
| 3 | 100 Amps | Each | 5737.00 |
| 4 | 125 Amps | Each | 6166.00 |
| 5 | 160 Amps | Each | 8464.00 |
| 6 | 200 Amps | Each | 8855.00 |
| 7 | 250 Amps | Each | 9756.00 |
| 8 | 320 Amps | Each | 12451.00 |
| 9 | 400 Amps | Each | 14222.00 |
| 10 | 630 Amps | Each | 23636.00 |
| 7.11 | Supplying of ISI Marked Direct On-Line Starters confirming to IS 13947-4 with suitable over load relay range and contactor size, $415 \mathrm{~V}, 3$-Phase with two earthing terminals |  |  |
| 1 | i) $0.75 / 1.0 / 2.0 / 3.0 / 5.0 / 7.5 \mathrm{HP}$ | Each | 1347.00 |
| 2 | ii) 10 HP | Each | 1456.00 |
| 7.12 | Supplying of ISI Marked Automatic Star-Delta Starters confirming to IS : 13947-4 with suitable over load relay range and contactor size \& timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals |  |  |
| 1 | i) 10.0 HP | Each | 4998.00 |
| 2 | ii) 12.5 / 15.0 HP | Each | 5215.00 |
| 3 | iii) 20 HP | Each | 6084.00 |
| 4 | iv) 25 HP | Each | 6193.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 5 | v) 30 HP | Each | 7931.00 |
| 6 | vi) 35 HP | Each | 9724.00 |
| 7 | vii) 50 HP | Each | 14776.00 |
| 8 | viii) 60 HP | Each | 21186.00 |
| 9 | ix) 75 HP | Each | 23902.00 |
| 7.13 | Supplying \& fixing of High Breaking Capacity (HBC) Fuse Links bolted connection type as per IS : 13703: 1993 \& IEC : 60269 :1986 with 80 kA breaking capacity of approved make |  |  |
| 1 | 20 Amp. to 32 Amp | Each | 43.00 |
| 2 | 36 Amp to 63 Amp | Each | 68.00 |
| 3 | 80 Amp to 125 Amp | Each | 152.00 |
| 4 | 160 Amp to 250 Amp | Each | 228.00 |
| 5 | 300 Amp to 315 Amp | Each | 321.00 |
| 6 | 400 Amp to 500 Amp | Each | 684.00 |
| 7 | 630 Amp | Each | 1309.00 |
| 7.14 | Supplying \& fixing of High Breaking Capacity (HBC) Fuse Links knife (DIN) type as per IS: 13703: 1993 \& IEC : $60269: 1986$ with 80 kA breaking capacity of approved make |  |  |
| 1 | 20 Amp. to 100 Amp | Each | 201.00 |
| 2 | 125 Amp to 160 Amp | Each | 223.00 |
| 3 | 200 Amp to 315 Amp | Each | 435.00 |
| 4 | 350 Amp to 400 Amp | Each | 522.00 |
| 5 | 425 Amp to 630 Amp | Each | 761.00 |
| 7.15 | Supplying \& fixing of ISI marked Porcelain Rewireable type fuse carrier \& base unit of approved make \& confirming to IS: 20861993 |  |  |
| 1 | 16 Amps./240 Volts | Each | 30.00 |
| 2 | 16 Amps./415 Volts or 32 Amps/240 Volts | Each | 41.00 |
| 3 | 32 Amps /415 Volts | Each | 85.00 |
| 4 | 63 Amps /415 Volts | Each | 133.00 |
| 5 | 100 Amps /415 Volts | Each | 272.00 |
| 6 | 200 Amps /415 Volts | Each | 771.00 |
| 7 | 300 Amps /415 Volts | Each | 923.00 |
|  |  |  |  |
| 7.16 | BUSBAR CHAMBERS |  |  |
|  | Supplying of metal clad ISI Marked busbar chamber made of heavy gauge iron sheet complete with copper strip and busbar supports as per specification confirming to IS -4064 |  |  |
| 1 | 32 AMP 440/500 VOLTS, 4 way | Each | 633.00 |
| 2 | 60/63 AMP 440/500 VOLTS, 4 way | Each | 1238.00 |
| 3 | 100 AMP 440/500 VOLTS, 4 way | Each | 1843.00 |
| 4 | 200 AMP 440/500 VOLTS, 4 way | Each | 3311.00 |
| 5 | 300 AMP 440/500 VOLTS, 4 way | Each | 3955.00 |
| 6 | 400 AMP 440/500 VOLTS, 4 way | Each | 4352.00 |
| 7 | 500 AMP 440/500 VOLTS, 4 way | Each | 5839.00 |


| CHAPTER - 8 |  |  |  |
| :---: | :---: | :---: | :---: |
| MCCB's, Isolators, MCB's, MCB-DB and fixing. |  |  |  |
| S.No. | Description of Items | Unit | Rate |
| 8 | Supplying of ISI Marked and approved make of Moulded Case Circuit Breaker (MCCB) suitable for 3 phase, 3 pole, $50 \mathrm{~Hz}, 415$ Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS - 8828 |  |  |
| 8.1 | MCCB with Breaking Capacity 25 KA at 415 V |  |  |
| 1 | Current Rating -25 to100 Amps \& 70\% -100\% adjustable | Each | 4490.00 |
| 2 | Current Rating -125 Amps \& 70\% -100\% adjustable | Each | 5674.00 |
| 3 | Current Rating -160 Amps \& 70\% -100\% adjustable | Each | 7918.00 |
| 4 | Current Rating -200 Amps \& 70\% -100\% adjustable | Each | 7800.00 |
| 8.2 | MCCB with Breaking Capacity 35 KA at 415 V |  |  |
| 1 | Current Rating -160 Amps \& Adjustable: 70\% -100\% thermal \& 5-10 times magnetic setting | Each | 12673.00 |
| 2 | Current Rating -200 Amps \& Adjustable: 70\% -100\% thermal \& 5-10 times magnetic setting | Each | 13091.00 |
| 3 | Current Rating -250 Amps \& Adjustable: 70\% -100\% thermal \& 5-10 times magnetic setting | Each | 16189.00 |
| 4 | Current Rating -315 Amps \& Adjustable: 70\% -100\% thermal \& 5-10 times magnetic setting | Each | 19006.00 |
| 5 | Current Rating -400 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 19006.00 |
| 6 | Current Rating -500/630 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 21117.00 |
| 7 | Current Rating -800 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 25340.00 |
| 8.3 | MCCB with Breaking Capacity 50 KA at 415 V |  |  |
| 1 | Current Rating -400 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 20418.00 |
| 2 | Current Rating -500/630 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 23228.00 |
| 3 | Current Rating -800 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 26745.00 |
| 8.4 | Supplying of ISI Marked and approved make of Air Circuit Breaker (ACB) with Microprocessor release with LCD screen showing kW ,kVA,PF, maximum demand with breaking capacity of $50 \mathrm{kA}, 4$ pole , 415 Volts conforming to IEC : 60947-2 / IS :13947-II |  |  |
| 1 | 630 Amp,manual,fixed | Each | 66982.00 |
| 2 | 800 Amp,manual,fixed | Each | 69374.00 |
| 3 | 1000 Amp,manual,fixed | Each | 72962.00 |
| 4 | 1250 Amp,manual,fixed | Each | 102865.00 |
| 5 | 1600 Amp, manual,fixed | Each | 107052.00 |
| 6 | 2000 Amp,manual,fixed | Each | 121405.00 |
| 7 | 630 Amp,manual,drawout | Each | 112135.00 |
| 8 | 800 Amp,manual,drawout | Each | 113331.00 |
| 9 | 1000 Amp,manual,drawout | Each | 119192.00 |
| 10 | 1250 Amp,manual,drawout | Each | 148796.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 11 | 1600 Amp,manual,drawout | Each | 160218.00 |
| 12 | 2000 Amp,manual,drawout | Each | 193530.00 |
| 8.5 | Supplying of ISI Marked and accepted standard of Miniature Circuit Breaker (MCB) of 'C' series suitable for 240/415 Volts, 50 Cycle , 10 kA Value AC supply confirming to IS : 8828: 1996, IEC : 60898 :2002 but without enclosures :- |  |  |
| 8.5.1 | SINGLE POLE (SP) |  |  |
| 1 | 0.5 Amp to 5 Amp Rating | Each | 221.00 |
| 2 | 6 Amp to 32 Amp Rating | Each | 151.00 |
| 3 | For 40 Amps. Rating only. | Each | 311.00 |
| 4 | 50 Amp to 63 Amp Rating | Each | 365.00 |
| 8.5.2 | SINGLE POLE \& NEUTRAL(SPN) |  |  |
| 1 | 0.5 Amp to 5 Amp Rating | Each | 508.00 |
| 2 | 6 Amp to 32 Amp Rating | Each | 455.00 |
| 3 | For 40 Amps. Rating only. | Each | 628.00 |
| 4 | 50 Amp to 63 Amp Rating | Each | 712.00 |
| 8.5.3 | DOUBLE POLE (DP) |  |  |
| 1 | 0.5 Amp to 5 Amp Rating | Each | 610.00 |
| 2 | 6 Amp to 32 Amp Rating | Each | 508.00 |
| 3 | For 40 Amps. Rating only. | Each | 682.00 |
| 4 | 50 Amp to 63 Amp Rating | Each | 831.00 |
| 8.5.4 | FOR TRIPLE POLE (TP) |  |  |
| 1 | 0.5 Amp to 5 Amp Rating | Each | 837.00 |
| 2 | 6 Amp to 32 Amp Rating | Each | 754.00 |
| 3 | For 40 Amps. Rating only. | Each | 1041.00 |
| 4 | 50 Amp to 63 Amp Rating | Each | 1208.00 |
| 8.5.5 | FOR TRIPLE POLE \& NEUTRAL(TPN) |  |  |
| 1 | 0.5 Amp to 5 Amp Rating | Each | 1130.00 |
| 2 | 6 Amp to 32 Amp Rating | Each | 987.00 |
| 3 | For 40 Amps. Rating only. | Each | 1298.00 |
| 4 | 50 Amp to 63 Amp Rating | Each | 1525.00 |
| 8.5.6 | FOUR POLE(FP) |  |  |
| 1 | 0.5 Amp to 5 Amp Rating | Each | 1238.00 |
| 2 | 6 Amp to 32 Amp Rating | Each | 1094.00 |
| 3 | For 40 Amps. Rating only. | Each | 1393.00 |
| 4 | 50 Amp to 63 Amp Rating | Each | 1609.00 |
| 8.4.(B) | Supplying of MCB Isolators suitable for 240/415 Volts, 50 Hz AC supply with KA value rating 10 kA of approved make confirming to IS :13947-Part III : 1993 \& IEC :60947- 3:2001 (without enclosures ) |  |  |
| 8.4.1 | SINGLE POLE |  |  |
| 1 | 40 Amps. | Each | 191.00 |
| 2 | 63 Amps. | Each | 215.00 |
| 8.4 .2 | DOUBLE POLE |  |  |
| 1 | 40 Amps. | Each | 299.00 |
| 2 | 63 Amps. | Each | 377.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 8.4.3 | TRIPLE POLE |  |  |
| 1 | 40 Amps. | Each | 544.00 |
| 2 | 63 Amps. | Each | 592.00 |
| 8.4.4 | FOUR POLE |  |  |
| 1 | 40 Amps. | Each | 664.00 |
| 2 | 63 Amps. | Each | 688.00 |
| 3 | 80 Amps. | Each | 897.00 |
| 4 | 100 Amps. | Each | 897.00 |
| 8.5.(B) | Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of Busbar, Neutral bar, Earth bar \& two earth terminals etc. complete as per IS:13032( exclusive of MCB \& isolator)- |  |  |
| 1 | 2 way single door | Each | 179.00 |
| 2 | 4 way single door | Each | 437.00 |
| 3 | 4 way double door | Each | 754.00 |
| 4 | 6 way double door | Each | 885.00 |
| 5 | 8 way double door | Each | 1017.00 |
| 6 | 12 way double door | Each | 1310.00 |
| 7 | 16 way double door | Each | 1627.00 |
| 8.6 | Supplying of approved make TPN MCB DB Metal Double Door with provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoing inclusive of Busbar, Neutral bar, Earth bar \& two earth terminals etc. complete as per IS:13032( exclusive of MCB \& isolator ): |  |  |
| 1 | 4 way (4+12) | Each | 2045.00 |
| 2 | 6 way (4+18) | Each | 2590.00 |
| 3 | 8 way (4+24) | Each | 2990.00 |
| 4 | 4 way (8+12) | Each | 2134.00 |
| 5 | 6 way ( $8+18$ ) | Each | 2661.00 |
| 6 | 8 way (8+24) | Each | 3170.00 |
| 7 | 12 way (8+36) | Each | 4288.00 |
| 8.7 | Supplying of approved make Vertical TPN MCB DB Metal Double Door with provision for FP CB/Isolator/RCCB/RCBO as incomer and SP/TP MCBs as outgoing inclusive of Busbar, Neutral bar, Earth bar \& two earth terminals etc. complete as per IS:13032( exclusive of MCB \& isolator ) |  |  |
| 1 | 4 way (8+12) | Each | 6068.00 |
| 2 | 6 way (8+24) | Each | 7685.00 |
| 3 | 12 way (8+36) | Each | 10288.00 |
| 8.8 | Supplying of approved make, powder coated Vertical TPN MCB DB Metal Double Door with MCCB 100A TP 10kA as incomer and space for SP/TP MCBs as outgoing (without MCBs) inclusive of busbar \&connections etc without MCB: |  |  |
| 1 | 4 way with MCCB | Each | 7799.00 |
| 2 | 8 way with MCCB | Each | 8654.00 |
| 3 | 12 way with MCCB | Each | 9898.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 8.9 | Supplying \& fixing of approved make Industrial type metal plug \& socket DBs (without MCB) SPN sheet encloser (dust protected ) inclusive of 2 pole and earth metal plug and socket and space to incorporate SP MCB complete as per specification as required. |  |  |
| 1 | 10 Amps | Each | 664.00 |
| 2 | 20 Amps | Each | 681.00 |
| 8.10 | Supplying \& fixing of ISI marked Industrial type metal plug socket D.B.s (without MCBs) for TPN encloser three pole and earth metal plug and socket including space incorporating TP MCB complete as per specification as required. |  |  |
| 1 | 20 Amps | Each | 1310.00 |
| 2 | 30 Amps | Each | 1824.00 |
| 8.11 | Supply \& fixing of approved make Industrial type metal plug \& socket, 3 pin ( $2 \mathrm{P}+\mathrm{E}$ ) conforming to IEC : $60309-1 \& 3$ complete as per specification |  |  |
| 1 | 10 Amps Plug only | Each | 108.00 |
| 2 | 10 Amps socket only | Each | 108.00 |
| 3 | 20 Amps Plug only | Each | 120.00 |
| 4 | 20 Amps socket only | Each | 138.00 |
| 8.12 | Supplying and installing of RCBOs (Residual current circuit breaker with overload and short circuit protection) ISI marked complete as per I.S. standard confirming to IEC:61009-2-1 \& IS:126402:2001,240/415V 50 Hz with 10 kA short circuit withstand capacity for earth leakage,overload \& short circuit protection including connection in existing enclosure in approved manner as per specification. |  |  |
| 8.12 .1 | DP(4 module) |  |  |
| 1 | 2 pole 6 to 25 Amps, 30 mA sensitivity | Each | 1980.00 |
| 2 | 2 pole $32 \mathrm{Amps}, 30 \mathrm{~mA}$ sensitivity | Each | 2075.00 |
| 3 | 2 pole $40 \mathrm{Amps}, 30 \mathrm{~mA}$ sensitivity | Each | 2165.00 |
| 4 | 2 pole $63 \mathrm{Amps}, 30 \mathrm{~mA}$ sensitivity | Each | 4013.00 |
| 5 | 2 pole 6 to $25 \mathrm{Amps}, 100 \mathrm{~mA}$ sensitivity | Each | 2069.00 |
| 6 | 2 pole $32 \mathrm{Amps}, 100 \mathrm{~mA}$ sensitivity | Each | 2177.00 |
| 7 | 2 pole $40 \mathrm{Amps}, 100 \mathrm{~mA}$ sensitivity | Each | 2243.00 |
| 8 | 2 pole 63 Amps, 100 mA sensitivity | Each | 4281.00 |
| 8.12 .2 | FP(8 module) |  |  |
| 1 | 4 pole $16 \mathrm{Amps}, 30 \mathrm{~mA}$ sensitivity | Each | 3647.00 |
| 2 | 4 pole 25-32 Amps, 30 mA sensitivity | Each | 3861.00 |
| 3 | 4 pole $40 \mathrm{Amps}, 30 \mathrm{~mA}$ sensitivity | Each | 3921.00 |
| 4 | 4 pole $63 \mathrm{Amps}, 30 \mathrm{~mA}$ sensitivity | Each | 4662.00 |
| 5 | 4 pole 16 Amps, $100 / 300 \mathrm{~mA}$ sensitivity | Each | 4079.00 |
| 6 | 4 pole $25-32$ Amps, $100 / 300 \mathrm{~mA}$ sensitivity | Each | 4079.00 |
| 7 | 4 pole $40 \mathrm{Amps}, 100 / 300 \mathrm{~mA}$ sensitivity | Each | 4164.00 |
| 8 | 4 pole 63 Amps, 100/300 mA sensitivity | Each | 4789.00 |
| 8.13 | FIXING OF SFUs, DBs,BUSBAR,MCCBs,MCBs, ISOLATORs \& RCBOs |  |  |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
|  | Fixing of metal clad enclosure on $25 \times 5 \mathrm{~mm}$ flat iron clamps including supplying and fixing of clamps as required duly embedded in masonary including cable connection and other required material as per specification :- |  |  |
| 1 | 16 Amps SP/DP Switch /SPN DB up to 4 way | Each | 83.00 |
| 2 | 32 Amps DP switch /SPN DB up to 8 way /16 AmpTPN DB up to 3 way per pole or 16 Amps TP or TPN switch / 16 Amps 415 V Isolator | Each | 87.00 |
| 3 | 32 Amps TP or TPN switch/ 32 Amps 415 V Isolator / 16 Amps TPN DB up to 6 way per pole / 32 Amps 415 Volt busbar 4 way | Each | 94.00 |
| 8.14 | Fixing of metal clad enclosure on $25 \mathrm{X} 25 \times 5 \mathrm{~mm}$ angle iron clamps including supplying and fixing of clamps as required duly embedded in masonary including cable connection and other required material as per specification :- |  |  |
| 1 | Fixing of 63 Amps TP or TPN main switches/ DB 63 Amps. 240/415 Volt 4 to 8 way or 63 Amps change over switch / 63 Amps 415 Volt Isolator /30 Amps 415V TPN DB upto 6 way per pole and busbar 4 way | Each | 146.00 |
| 2 | Fixing of 100 Amps TP or TPN main switch or 100 Amps change over switch /100 Amps 415 Volt Isolators and busbar 4 way | Each | 199.00 |
| 3 | Fixing of 200 Amps TP or TPN main switch or 200 Amps change over switch / 200 Amps 415 Volt Isolators and busbar 4 way | Each | 263.00 |
| 8.15 | Fixing of metal clad enclosure on $35 \mathrm{X} 35 \times 5 \mathrm{~mm}$ angle iron clamps including supplying and fixing of clamps as required duly embedded in masonary including cable connection and other required material as per specification :- |  |  |
| 1 | Fixing of 300/400 Amps TP or TPN main switch or 300/400 Amps change over switch /300/400 Amps 415 Volt Isolators and busbar 4 way | Each | 280.00 |
| 2 | Fixing of 500/600 Amps TP or TPN main switch or 500/600 Amps change over switch 500/600 Amps 415 Volt Isolators and busbar 4 way | Each | 283.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 8.16 | Fixing of MCB /MCCB/ Isolator |  |  |
| 1 | Fixing of MCB / Isolator SP/DP in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (Labour only ) | Each | 8.00 |
| 2 | Fixing of MCB /MCCB Isolator TP /TPN/FP in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete. | Each | 16.00 |
| 8.17 | Labour charges for fixing sheet steel enclosure, MCB DB surface mounting type, as per accepted practice on $25 \times 5 \mathrm{~mm}$ flat iron clamps duly embedded in wall,cable connection etc. complete. |  |  |
|  | FOR S.No :- |  |  |
| 1 | 8.5 (1) to 8.5 (4) | Each | 83.00 |
| 2 | 8.5 (5) \& 8.5 to 8.6 (2) | Each | 88.00 |
| 3 | 8.6 (3), 8.6(4) \& 8.7 (1) | Each | 94.00 |
| 8.18 | Labour charges for fixing sheet steel enclosures, MCB DB surface mounting type, as per accepted practice on $25 \times 25 \times 5 \mathrm{~mm}$ angle iron clamp,including supplying and fixing of clamps duly embedded in wall, cable connection etc. complete :- |  |  |
|  | FOR S.No :- |  |  |
| 1 | $8.5(6) \& 8.5(7), 8.6(5)$ to 8.6 (7) | Each | 146.00 |
|  | $8.7(2) \& 8.7(3) \& 8.8(1)$ to 8.8 (3) |  |  |
| 8.19 | Labour charges for fixing sheet steel enclosures, MCB DB flush mounting type, as per accepted practice, duly embedded and end plate completely flushed in wall, cable connection etc.complete :- |  |  |
|  | FOR S.No :- |  |  |
| 1 | 8.5 (1) to 8.5(5), 8.6(1) to 8.6 (5) \& 8.7(1) | Each | 136.00 |
| 2 | $8.5(6) \& 8.5(7), 8.6(6)$ to 8.6(7), 8.7(2) to 8.7(3) \& 8.8(1) to 8.8(3) | Each | 190.00 |

## CHAPTER NO.- 9 <br> ACCESSORIES, PANELS, LAMPS, TELEPHONE WIRES, FANS, LUMINAIRES

| 1 | Rates include all lead and lift for all materials for all items unless otherwise specified. |
| :---: | :---: |
|  |  |
| 2 | The provision of scaffolding of ladder or any tools and plants required shall be deemed to be included in the items unless otherwise stated. |
|  |  |
| 3 | Cutting through walls and floors, lifting up floor boards and re-fixing, cutting out plaster and making good all the work disturbed, notching or drilling holes through joists, etc. shall be deemed to be included with the item of work. |
|  |  |
| 4 | Description and Enumeration of fittings: - |
|  | 4.1 Ordinary Pendants |
|  | 4.1.1 Ordinary Pendants shall be described as including |
|  | (a) Lamp holders, and |
|  | (b) Required length of flexible cord. |
|  |  |
|  | 4.2 Stiff pendants. |
|  | 4.2.1 Stiff pendants shall be described as including- |
|  | (a) Back plate, |
|  | (b) Required length of conduit, |
|  | (c) Adapter, and |
|  | (d) Lamp holder, |
|  |  |
|  | 4.3 Plain Brackets. |
|  | 4.3.1 Plain brackets shall be described as including- |
|  | (a) Back-plate, |
|  | (b) Tumbling with nozzle, and |
|  | (c) Lamp holder. |
|  |  |
|  | 4.4 Watertight Brackets, |
|  | 4.4.1 Watertight brackets shall be described as including - |
|  | (a) Back-plate, |
|  | (b) Conduit, |
|  | © Gallery, |
|  | (d) Reflector, |
|  | (e) Well glass screw guard fitting, |
|  | (f) Lamp holder, and |
|  | (g) Rubber washers. |
|  |  |
|  | 4.5 Switches, |
|  | 4.5.1 When measured separately from point wiring, the switches shall be described stating the type and rated capacity. Cover plates, if any, shall be included with the item. |
|  | 4.5.2 Switch plug combination, comprising socket outlet, switch and plug shall be described, and the type and rated capacity shall be stated. |
|  |  |
|  | 4.6 Bulk-Head fittings, |
|  | 4.6.1 Bulk-head fittings shall be described as including- |
|  | (a) Lamp holder (all insulated) |
|  | (b) Reflector, |
|  | (c) Water tight glass front, hinged and with wing nuts, and |
|  | (d) Wire guard. |


|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  | 4.7 Lamps, |  |  |
|  | 4.7.1 Lamps shall be described stating the type, wattage and voltage. |  |  |
|  |  |  |  |
|  | 4.8 Fluorescent-Lamp fittings, |  |  |
|  | 4.8.1 Fluorescent-lamp fittings shall be described as including- |  |  |
|  | (a) Single tube or twin tube (stating the type and length), |  |  |
|  | (b) Choke (ballast), |  |  |
|  | (c) Capacitor, |  |  |
|  | (d) Starter, |  |  |
|  | (e) Lamp holders, |  |  |
|  | (f) Starter- holders, |  |  |
|  | (g) Reflector, |  |  |
|  | (h) Back-plate |  |  |
|  | (i) Inter-connecting wiring |  |  |
|  | (j) Make and type of fitting, and |  |  |
|  | (k) Louver or perplex panel |  |  |
|  |  |  |  |
| 5 | The provisions of scaffolding or ladder or any tools and plants required shall be deemed to be included in the items, unless otherwise stated. |  |  |
|  |  |  |  |
| 6 | Cutting through walls and floors, lifting up floor boards and refixing, cutting out plaster and making good all the work disturbed, notching or drilling holes through joists, etc. shall be deemed to be included with the item of work. |  |  |
|  |  |  |  |
|  | The following Indian Standards may be referred to :- Chapter 9 |  |  |
|  |  |  |  |
|  | S.No. | Standards | Title Codes of Practice/ Guide |
|  | 1 | IS:3646 (Part-1)-1966 | Code of practice for interior illumination Principles for good lighting and aspects of design. |
|  | 2 | IS:3646 (Part-2)-1966 | Code of practice for interior illumination: Schedule of illumination and glare index. |
|  | 3 | IS:3646 (Part-3)-1968 | Code of practice for interior illumination : Calculation of coefficients of utilization by the BZ method. |
|  | 4 | IS:4347-1967 | Code of practice for hospital lighting. |
|  | 5 | IS:6665-1972 | Code of Practice for industrial lighting. |
|  | 6 | IS:2672-1966 | Code of Practice for library lighting. |
|  | 7 | IS:555-1979 | Electric table type fans and regulators. |
|  | 8 | IS:1169-1967 | Electric pedestal type fans and regulators. |
|  | 9 | IS:374-1979 | Electric ceiling type fans and regulators. |
|  | 10 | IS:2997-1961 | Air circulator type electric fans and regulators. |
|  | 11 | IS:2312-1967 | Propeller type AC ventilating fans. |
|  | 12 | IS:3588-1987 | Electrical axial flow fans. |
|  | 13 | IS:3963-1987 | Roof Extractor units. |
|  | 14 | IS:1283-1981 | Hor air fan. |
|  | 15 | IS:6272-1987 | Industrial cooling fans (man coolers) |
|  | 16 | IS:4894-1987 | Centrifugal fans |
|  | 17 | IS:11037-1984 | Electronic type fan regulators. |
|  | 18 | IS:12155-1987 | General and Safety requirements for fans and regulators for household and similar purposes. |
|  | 19 | IS:118-1978 | Tungsten filament general service electric lamps. |
|  | 20 | IS:2118(Part-1)-1977 | Tubular fluorescent lamps for general lighting service: Requirements and tests. |
|  | 21 | IS:9900(Part-1)-1981 | High pressure mercury vapor lamps: Requirements and test. |


|  | 22 | IS:9974(Part-1)-1981 | High pressure sodium vapor lamps: General requirements and tests. |
| :---: | :---: | :---: | :---: |
|  | 23 | IS:1258-1987 | Bayonet lamp holders. |
|  | 24 | IS:3323-1980 | B1-pin lamp holders for tubular fluorescent lamps. |
|  | 25 | IS:3324-1982 | Holders for starters for tubular fluorescent lamps. |
|  | 26 | IS:2215-1984 | Starters for fluorescent lamps. |
|  | 27 | IS:1534(Part-1)-1977 | Ballast for fluorescent lamps: For switch start circuits. |
|  | 28 | IS:1569-1976 | Capacitors for use in tubular fluorescent high pressure mercury and low pressure sodium vapor discharge lamp circuits. |
|  | 29 | IS:6616-1982 | Ballasts for high pressure mercury vapor lamps. |
|  | 30 | IS:1913(Part-1)-1978 | General and safety requirements for luminaries: Tubular flu (2) |
|  | 31 | IS:10322(Part-1)-1982 | Luminaries: General requirements |
|  | 32 | IS:10322(Part-2)-1982 | Luminaries: Constructional requirements |
|  | 33 | IS:10322(Part-5/Sec-1) 1987 | Luminaries: Particular requirements : Recessed luminaries. |
|  | 34 | IS: 10322(Part-5/Sec-3) 1987 | Luminaries: Particulars requirements: Luminaries for road and street lighting. |
|  | 35 | IS:10322 (Part-5/Sec-5) 1987 | Luminaries: Particulars requirements: Portable general purpose luminaries |
|  | 36 | IS:10322(Part-5/Sec-5) 1987 | Luminaries: Particulars requirements : Floodlight |
|  | 37 | IS: 3287-1965 | Industrial lighting fittings with plastic reflectors. |
|  | 38 | IS: 1777-1978 | Industrial luminaries with metal |
|  | 39 | IS:2206(Part-1)-1984 | Flame proof electric lighting fittings : Well glass and bulk head types. |
|  | 40 | IS:3528-1966 | Water proof electric lighting fittings. |
|  | 41 | IS:3553-1966 | Water tight electric lighting fittings. |
|  | 42 | IS:8030-1976 | Luminaries for hospitals. |
|  | 43 | IS:7537-1974 | Road traffic signals. |
|  | 44 | IS:9583-1981 | Emergency lighting units. |
|  | 45 | IS:302-1979 | General and safety requirements for household and similar electrical appliances. |
|  | 46 | IS:2268-1988 | Electric call bells and buzzers for indoor use. |
|  | 47 | IS:3412-1985 | Electric water boilers. |
|  | 48 | IS:4770-1991 | Rubber gloves for electrical purposes. |
|  | 49 | IS:5424-1969 | Rubber mats for electrical purposes. (xv) |
|  | Note:- The above IS Codes shall be applicable with latest amendments if any. |  |  |



| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 9.9 | Supplying and fixing of approved make 3 pin plug top ISI marked |  |  |
| 1 | 6 Amp 250 Volt 3 Pin | Each | 56.00 |
| 2 | 16 Amp 250 Volt Pin | Each | 71.00 |
| 9.10 | Supplying and fixing as per specification Ball Socket of approved make with necessary material complete. | Each | 29.00 |
| 9.11 | Supplying and fixing as per specification Caution / Danger Board as required of approved make \& design with necessary material complete. |  |  |
| 1 | Small Size | Each | 96.00 |
| 2 | Large Size | Each | 192.00 |
| 9.12 | Supplying and fixing as per specification bakelite Ceiling rose 3 Plate of approved make ISI marked with necessary material complete. | Each | 25.00 |
| 9.13 | Supplying and fixing as per specification Switch of approved make ISI marked with necessary material complete. |  |  |
| 1 | 6 Amp S.P. porcelain Base 250 Volt | Each | 54.00 |
| 2 | 16 Amp S.P. porcalane Base 250 Volt | Each | 80.00 |
| 3 | 6 Amp Flush type | Each | 15.00 |
| 4 | 16 Amp Flush type | Each | 44.00 |
| 5 | 6 Amp S.P. 250 Volt two way Flush type | Each | 24.00 |
| 6 | 10 Amps S.P. 250 Volt Modular Switch | Each | 97.00 |
| 7 | 20 Amps S.P. 250 Volt Modular Switch | Each | 156.00 |
| 8 | 10 Amps S.P. 250 Volt Modular Switch 2 way | Each | 113.00 |
| 9.14 | Supplying and fixing as per specification 6 Amp 250 Volt Bell Push switch of approved make ISI marked with necessary material complete. |  |  |
| 1 | 10 Amps S.P. 250 Volt Modular Switch Bell Push | Each | 113.00 |
| 2 | Flush Type | Each | 25.00 |
|  | Locking arrangement for Switch Gear Mounting |  |  |
| 9.15 | Supplying, fixing,testing \& commissioning wall / floor mounted LT Panel primer coated with two coat of enamel paint \& provided with required gasket for dust/ vermin proof with degree of protection IP42 suitable for 415 V 3 phase , $50 \mathrm{~Hz}, 4$ wire system fabricated out of CRCA sheet upto 2 mm thick ( 1.6 mm for doors) with frame work of angle iron/ channel/ bolted type construction duly compartmentalised for incomer,bus section, outgoings ,cable alleys \& CT,PT Ampere Meter ,Volt Meter , selector switches,Frequency Meter ,phase indicating lamps, energy Meter complete including cost of busbar supports,detachable cable gland plates,2 earthing terminals, internal wiring \& fixing of separately supplied MCBs, MCCBs ,panel mounted Changeover switch/SFUs, etc. as required but excluding cost of busbar strips,Ampere Meter, Volt Meter, Selector switch as per approved design \& specification | Kg | 105.00 |
| 9.16 | Supplying and fixing of LT Panel accessaries of approved make in existing LT Panel including connections etc.as required as per spececification |  |  |
| 1 | Digital Ampere Meter with CTs with selector switch | per set | 2140.00 |
| 2 | Digital Volt Meter with selector switch \& HRC fuse | per set | 2300.00 |
| 3 | Frequency Meter | Each | 1325.00 |



| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 3 | 11 Watt | Each | 162.00 |
| 4 | 15 Watt | Each | 174.00 |
| 5 | 18 Watt | Each | 204.00 |
| 6 | 20 Watt | Each | 270.00 |
| 7 | 25 Watt | Each | 290.00 |
| 8 | 30 Watt | Each | 300.00 |
| 9 | 36 watt | Each | 480.00 |
| 10 | 45 Watt | Each | 780.00 |
| 11 | 65 Watt | Each | 900.00 |
| 12 | 85 Watt | Each | 960.00 |
|  |  |  |  |
| 9.24 | Supplying,Fixing and Testing of Helogen Rod of approved make as required as per specification |  |  |
| 1 | 500 Watt | Each | 96.00 |
| 2 | 1000 Watt | Each | 120.00 |
|  |  |  |  |
| 9.25 | Supplying,Fixing and Testing of Ball Bearing of approved make as required as per specification |  |  |
| 1 | 6201 | Each | 83.00 |
| 2 | 6202 | Each | 88.00 |
| 3 | 6203 | Each | 108.00 |
| 4 | 6204 | Each | 160.00 |
|  |  |  |  |
| 9.26 | suppling and drawing following pair, 0.5 Sq mm PVC Insulated copper conductor unarmoured telephone cable in existing surface / concealed ,steel / PVC Conduit as required. |  |  |
| 1 | (i) 1 Pair | meter | 28.00 |
| 2 | (ii) 2 Pair | meter | 33.00 |
| 3 | (iii) 4 Pair | meter | 36.00 |
| 9.27 | suppling and drawing Co-axial T.V. Cable RG-6 Grade , 0.7 mm Solid Copper conductor PE Insulated, Shielded with fine tined copper braid and protected with PVC Sheath in the existing surface / concealed ,steel / PVC. Conduit as required. | meter | 40.00 |
| 9.28 | Suppling and fixing of approved make Resistance type Fan regulator including connection etc. as required on existing board | Each | 55.00 |
| 9.29 | Suppling and fixing of approved make step type electronic Fan regulator including connection etc. as required on existing board |  |  |
| 1 | 450 Watt | Each | 227.00 |
| 9.30 | Suppling and fixing of approved make electronic dimmer / requlator including connection etc. as required on existing board |  |  |
| 1 | 650 Watt | Each | 218.00 |
| 2 | 1000 Watt | Each | 268.00 |
| 9.31 | Suppling and fixing of approved make step type Modular electronic, Fan regulator single/double module including connection etc. as required on existing board |  |  |
| 1 | upto 120 watt | Each | 545.00 |
|  |  |  |  |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 9.32 | Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete as required confirming to IS : 374/1979 with upto date ammendments. |  |  |
| 1 | Ceiling Fan (Energy Saver 50 W )-1200 mm Sweep | Each | 1717.00 |
| 2 | Ceiling Fan (Energy Saver 60 W)-1400 mm Sweep | Each | 1817.00 |
| 9.33 | Supplying, erection and testing of approved make Wall Mounting fan complete with Wall Bracket ,canopy, blades, speed Regulator etc .A.C 230250 volts with connections and including raw bolt/Anchor hole fastener etc. complete finished and as required. |  |  |
| 1 | 300 sweep | Each | 1785.00 |
| 2 | 400 sweep | Each | 1890.00 |
| 9.34 | Supplying, erection and testing of approved make Cabin fan oscillating type with base, blades, guard, speed regulator etc. AC 230-250 volts with connections and including raw bolt/Anchor hole fastener etc. complete finished and as required. |  |  |
| 1 | 300 sweep | Each | 1811.00 |
| 2 | 400 sweep | Each | 1945.00 |
| 9.35 | Supplying, erection and testing of approved make 'Fresh Air Fan' AC 230250 volts with connection and including frame bolt/Anchor hole fasteners etc. compelte finished and as required. |  |  |
| 1 | 225 mm sweep | Each | 1024.00 |
| 2 | 300mm sweep | Each | 1224.00 |
| 9.36 | Supplying, erecting and testing of approved make Exhaust Fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/ Anchor hole fastners etc. complete finished and as required. |  |  |
| 1 | 300mm sweep 900 RPM | Each | 2573.00 |
| 2 | 380mm sweep 900 RPM | Each | 2755.00 |
| 3 | 450 mm sweep 900 RPM | Each | 3901.00 |
| 9.37 | Supplying and testing of approved make Pedestal fan A.C. 230-250 volts with blades speed regulator 'pedestal etc duly wired with all necessary material complete as required |  |  |
| 1 | 400 mm Sweep | Each | 2260.00 |
|  | Fluorescent Tube Fitting |  |  |
| 9.38 | Supplying, fixing and testing of approved make fluorescent tube fitting 36/40 watt, rust resistant, stove enamelled paint, box type channel with cover, complete with electronic ballast (HF) complete duly wired (without tube rod) as per specification \& fixing as below: |  |  |
| 1 | I) Fixing on wall/Ceiling on wooden round block with 'J' hook / Anchor hole fastners/hollow bow with rod fixed in Ceiling and other necessary materials including connections etc. and as required. | Each | 840.00 |
| 2 | II) Fixing by stiff pendant arrangement with two pieces of steel conduit 19/20 dia 16 SWG and other necessary materials such as ball socket, wooden round block with 'J' hook/Anchor hole fasteners fixed in Ceiling including connection and as required for length upto 1.5 Meter | Each | 1110.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 3 | III) Fixing by pendant arrangement with two pieces of approved metallic chain and other necessary materials such as wooden block with 'J' hook Anchor hole fastner fixed in Ceiling including connection as required for length up to 1.5 Meter | Each | 1050.00 |
| 9.39 | Supplying, fixing and testing of approved make fluorescent tube fitting 36/40 watt, rust resistant, stove enamelled paint, CRCA sheet steel housing with white stove enamelled reflector complete with copper ballast complete duly wired (without tube rod) as per specification \& fixing as below: | Each | 588.00 |
| 9.40 | Supplying, fixing and testing of approved make fluorescent single \& double tube fitting 36/40 watt, rust resistant, stove enamelled paint, CRCA sheet steel housing with opal acrylic diffuser and decorative end plates complete with copper ballast complete duly wired (without tube rod) as per specification \& fixing . |  |  |
| 1 | $1 \times 40 / 36$ watt | Each | 1100.00 |
| 2 | 2x36/40 watt | Each | 1848.00 |
| 9.41 | Supplying, fixing and testing of approved make surface mounting mirror optics luminaires for single/twin 36/40 watt fluorescent lamp comprising of white powder coated CRCA sheet steel housing raw silk / navy brown / white colour M.S. Iow profile flat housing complete with all accessories i.e. electronic ballast (HF) duly wired (without tube rod) and high purity anodised aluminium reflector assmebly along with cross louvers as per specification and fixing as below. |  |  |
| 9.41 .1 | Fixing on wall/Ceiling on wooden round block with 'J' hook/Anchor hole fastener fixed in Ceiling and other necessary materials including connectons etc. and as requried. |  |  |
| 1 | 1x36/40w | Each | 2184.00 |
| 2 | 2x40w | Each | 3420.00 |
| 9.41 .2 | Fixing by stiff pendant arragement with two pieces of steel conduit 19/20mm dia 16 SWG and other necesssary materials such as ball socket, T.W. block with 'J' hook/ Anchor hole fastner fixed in Ceiling including connections and as required for length upto 1.5 Meter. |  |  |
| 1 | 1x40w | Each | 2286.00 |
| 2 | 2x36/40w | Each | 3522.00 |
| 9.41 .3 | Fixing by pendant arrangment with two pieces of approved metallic chain and other necessary materials such as T.W. block with 'J' hook/ Anchor hole fastner fixed in Ceiling including connections and as required for length upto 1.5 Meter. |  |  |
| 1 | 1x40w | Each | 2258.00 |
| 2 | 2x40w | Each | 3462.00 |
| 9.42 | Supplying, fixing and testing of approved make surface mounting mirror optics luminaires for single/twin 36/40 watt fluorescent lamp comprising of white powder coated CRCA sheet steel housing raw silk / navy brown / white colour M.S. low profile flat housing complete with all accessories i.e. copper ballast duly wired (without tube rod) and high purity anodised aluminium reflector assmebly along with cross louvers as per specification and fixing as below. |  |  |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 9.42.1 | Fixing on wall/Ceiling on wooden round block with 'J' hook/Anchor hole fastener fixed in Ceiling and other necessary materials including connectons etc. and as requried. |  |  |
| 1 | 1x36/40w | Each | 1764.00 |
| 2 | 2x40w | Each | 2580.00 |
|  | Mirror Optics (recessed/concealed) |  |  |
| 9.43 | Supplying, fixing and testing of approved make recess mounting mirror optics luminaires for single/twin 36/40 watt fluorescent lamp comprising of white powder coated CRCA sheet steel housing raw silk / navy brown / white colour M.S. Iow profile flat housing complete with all accessories i.e. electronic ballast (HF) duly wired (without tube rod) and high purity anodised aluminium reflector assmebly along with cross louvers as per specification and fixing . |  |  |
| 1 | 1×40 Watt | Each | 2100.00 |
| 2 | 2x40 Watt | Each | 3300.00 |
| 9.44 | Street Lights |  |  |
|  | Supplying, fixing and tesing of approved make street/ road light fitting complete with copper wound polyster choke, lamp holder,starter holder, starter duly wired, side entry with clear acrylic cover with fixing clamps (without tube rod) including fixing with 20 mm dia G.I. pipe medium class of required length upto 2 Meter for mounting on wall/existing pole, on existing"D" Bracket including bending the pipe to required shape and connectios including all materials as required. |  |  |
| 1 | 1×40 Watt | Each | 1353.00 |
| 2 | 2x40 Watt | Each | 1744.00 |
|  |  |  |  |
| 9.45 | BULK HEAD |  |  |
|  | Supplying, fixing and testing of approved make bulk head luminaire consisting of pressure die aluminium housing lamp holder, prismatic glass cover, rubber gasket and wire guard, delux type, including fixing on wall as required, with necessary material complete Fitting(sutiable for GLS w/o lamp upto 11 watt Retorted CFL) | Each | 510.00 |
| 9.46 | Supplying, fixing and testing of approved make high pressure M.V. fitting, consisting of cast aluminium cotrol gear housing, highly polished reflector, highly transparent acrylic hinged cover, complete with taped polyster choke, capacitor, connector etc. suaitable for end mounting duly wired (without lamp) including fixing with $25 / 30 \mathrm{~mm}$ dia G.I. pipe medium class of required length upto 2 Meter for mounting on wall / existing pole/on existing 'D' bracket, including bending the pipe to required shape and connections including all materials as required. |  |  |
| 1 | 80 Watt | Each | 2475.00 |
| 2 | 125 Watt | Each | 2690.00 |
| 3 | 250 Watt | Each | 3653.00 |
| 4 | 400 Watt | Each | 4516.00 |
|  |  |  |  |
| 9.47 | H.P. Sodium Vapour Fitting |  |  |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
|  | Supplying, fixing \& testing of approved make H.D. Sodium vapour fitting consisting of matallic cast aluminium alloy housing highly polished anodised aluminium reflector clear acrylic cover, gasket and equipped with accessories; such as ballast, condensor, ignitor, skirted ceramic lamp holder (without lamp) suitable for end mounting duly wired, including fixing with $32 / 38 \mathrm{~mm}$ dia G.I. pipe medium class of required length upto 2 Meter for mounting on wall/exisiting pole/on existing D bracket including bending the pipe to required shape and connections including all materials as requried. |  |  |
| 1 | 70 watt | Each | 2757.00 |
| 2 | 150 watt | Each | 3800.00 |
| 3 | 250 watt | Each | 4751.00 |
| 4 | 400 watt | Each | 5472.00 |
| 9.48 | Supplying ,fixing and testing of approved make of H.P.Sodium vapour side road lighting/ main road lighting lantern consisting of single piece cast aluminium housing complete with all accessories suitable for tubular 70W /150W /250W/HPSV lamp pot type high purity ALGLAS coated electromechanically brightened anodized aluminium reflector/ with ripples embossing above the lamp, lamp holder, clear acrylic cover \& $3 / 5$ stainless steel toggle, ignitor \& ballast, condensor(without lamp) i/c fixing with $32 / 38$ mmdia G.I. pipe medium class of required length upto 2 mtr . for mounting on wall/existing pole/on existing "D" bracket i/c bending the pipe to required shape and connections, i/c all material as required \& suitable for: |  |  |
| 1 | 70 Watt | Each | 3200.00 |
| 2 | 150 Watt | Each | 4776.00 |
| 3 | 250 Watt | Each | 6030.00 |
| 9.49 | Flood Lighting |  |  |
|  | Supplying, fixing \& testing of approved make of intergal type compact flood light fitting consisting of cast aluminium housing complete with all accessories ALGLAS coated aluminium reflector, lamp holder heat resisting toughned clear glass cover and mounting bracket with aiming disc, including fixing \& connections as requried in position with all necessary materials required, suitable for single ended tubular lamp (without lamp) |  |  |
| 1 | 150 Watt S.V. Lamp | Each | 5151.00 |
| 2 | 150 Watt metal halide Lamp | Each | 5550.00 |
| 9.50 | Supplying, fixing \& testing of approved make H.D. asymmetrical beam flood light fitting suitable for tubular single lamp consisting of cast aluminium housing 'ALGLAS coated aluminium faceted reflector assly tonghned glass cover, mounting bracket and aiming disc, seperate control gear box required for HPSV/M.H. Lamp (without lamp) including fixing \& connection as required in position with all necessary material required |  |  |
| 1 | 250 watt S.V. Lamp/Metal Halide with control gear box. | Each | 6800.00 |
| 2 | 400 Watt S.V. Lamp/metal Halide with control gear box | Each | 7700.00 |
|  | POST TOP LANTERNS |  |  |
|  |  |  |  |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 9.51 | Supplying, fixing \& testing of approved make of integral type decorative post top lantern consisting of aluminium canopy opal acrylic bottom cover and cast aluminium spigot complete with all accessories and control gear box (without lamp) including fixing on gate pillers/ existing G.I. pipe, pole with connection and all required material on required size of G.I. pipe, suitable for |  |  |
| 1 | 125 Watt M.V. Iamp | Each | 3700.00 |
| 2 | 70 Watt S.V. Lampwith ignitor | Each | 3900.00 |
| 9.52 | Supplying, fixing \& testing of approved make of integral mushroom type roto moulded/Diamond shaped roto moulded post top lantern, consisting of cast aluminium spigot complete with all accessories, lamp holder, control gear box( without lamp) including fixing on gate Pillers/exiting G.I. pipe, pole with connection \& all required materials on required size of G.I. pipe, suitable for |  |  |
| 1 | 125 Watt M.V. Iamp | Each | 3700.00 |
| 2 | 70 Watt S.V. Lampwith ignitor | Each | 3800.00 |
| 9.53 | LOW WATT MOUNTINGS |  |  |
|  | Supplying, fixing \& testing of approved make of low watt surface mounting luminaires, made of white powder coated CRCA sheet steel housing with aluminium mirror reflector complete with control gear, wired upto terminal block on a detachable tray including fixing on wall/ Ceiling on wooden round block including wiring \& connection as required and suitable for CFL as following :- (without lamp) |  |  |
| 1 | 2 nos. 11 watt CFL | Each | 1440.00 |
| 2 | 2 no. 18 watt CFL | Each | 1452.00 |
| 3 | 2 Nos 36 watt CFL | Each | 2436.00 |
| 4 | 3 Nos 36 watt CFL | Each | 4116.00 |
| 9.54 | Supplying, fixing \& testing of approved make of low watt recessed mounting luminaire made of CRCA sheet steel housing with false Ceiling lips finished in stove enamelled white inside/outside fitted with high purity anodised aluminium mirror reflector and complete with control gear, including fixing with recessed mounting arragement with necessary materials connection etc. complete as required and suitable for single/twin 9 \& 11 watt CFL (without lamp) |  |  |
| 1 | 2 nos. 11 watt CFL aluminium mirror reflector | Each | 1398.00 |
| 2 | 2 nos. 36 watt CFL ( $595 \mathrm{~mm} \times 595 \mathrm{~mm}$ ) aluminium darklight reflector | Each | 3600.00 |
| 3 | 2 no. 36 watt CFL ( $295 \mathrm{~mm} \times 595 \mathrm{~mm}$ ) aluminium mirror reflector | Each | 2724.00 |
| 4 | 3 Nos 36 watt CFL aluminium mirror reflector | Each | 3756.00 |
| 5 | 3 Nos 36 watt CFL ( 597 mm X 597 mm ) aluminium darklight reflector | Each | 4644.00 |
| 9.55 | Supplying, fixing \& testing of approved make of low watt surface / recessed mounting CFL down lighter luminaire with white powder coated aluminium cover with anodised aluminium reflector with necessary materials connection etc. complete as required (without lamp) |  |  |
| 1 | CFL $1 \times 10$ / 13 / 18 watt | Each | 684.00 |
| 2 | CFL 2 X 13 / 18 watt | Each | 924.00 |
|  |  |  |  |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 9.56 | Supplying, fixing \& testing of approved make of low watt CFL roadway / street light luminaire with epoxy powder coated sheet aluminium / steel housing with epoxy white powder coated CRCA sheet steel gear tray ,clear acrylic cover with necessary materials connection including mounting with GI pipe 32 mm OD, clamps on existing wall / pole etc. complete as required (without lamp) |  |  |
| 1 | CFL $1 \times 9 / 11$ watt | Each | 1080.00 |
| 2 | CFL $1 \times 13$ / 18 watt | Each | 1140.00 |
| 3 | CFL $2 \times 11$ watt | Each | 1224.00 |
| 4 | CFL $2 \times 18$ watt | Each | 1380.00 |
| 5 | CFL 1 X 36 watt | Each | 1380.00 |
| 9.57 | Supplying, fixing \& testing of approved make of T- 5 lamp channel luminaire with plastic extruded housing with in-built electronic control gear with decorative end caps with necessary materials connection etc. complete as required (with lamp) |  |  |
| 1 | T - 5 Lamp $1 \times 28$ watt | Each | 744.00 |
| 9.58 | Supplying, fixing \& testing of approved make of T- 5 lamp channel luminaire with epoxy white powder coated CRCA sheet steel housing with reflector cover with necessary materials connection etc. complete as required (with lamp) |  |  |
| 1 | T-5 Lamp $1 \times 28$ watt | Each | 1200.00 |
| 9.59 | Supplying and fixing of Delux fresh air fan with louvers ( ventilating fan ) with self closing louvers of decorative PVC blades mounting square frame of approved maked complete with all necessary material as required |  |  |
| 1 | 150 mm | Each | 1134.00 |
| 2 | 200 mm | Each | 1200.00 |
| 3 | 250 mm | Each | 1302.00 |
| 9.60 | supplying and fixing of Cooler Kit including cooler fan 450 mm ISI marked and Vertical pump complete with all necessary material as required | Each | 2160.00 |
| 9.61 | supplying and fixing of cooler / A.C. MS angle iron stand including flat iron supports, including grouting in wall if required,welding ,painting with primer and two coat of superior quality paint complete. | Kg | 54.00 |
| 9.62 | Supplying,Fixing and Testing of Flourescent Tube rod T-5 ISI marked of approved make as required as per specification | Each |  |
| 1 | 14 watt T-5 | Each | 110.00 |
| 2 | 21 watt T-5 | Each | 120.00 |
| 3 | 24 watt T-5 | Each | 150.00 |
| 4 | 28 watt T-5 | Each | 120.00 |
| 9.63 | Supplying,Fixing and Testing of Compact Flourescent Lamp (CFL) without electronic ballast ISI marked of approved make as required as per specification |  |  |
| 1 | 9 Watt | Each | 75.00 |
| 2 | 11 Watt | Each | 80.00 |
| 3 | 18 Watt | Each | 185.00 |
| 4 | 36 watt | Each | 200.00 |


| CHAPTER - 10 |  |  |  |
| :---: | :---: | :---: | :---: |
| Miscellaneous |  |  |  |
| S.No. | Description of Items | Unit | Rate |
| 10.1 | Fixing of Flourescent Tube fitting on wall /ceiling on wooden round block with anchor fastener /J hook \& necessary material including connection with 3 core flexible wire etc. complete as required. | Each | 72.20 |
| 10.2 | Fixing of Flourescent Tube fitting on wall with two approved type swan neck steel conduit brackets on wooden round block with anchor fastener /J hook \& necessary material including connection with 3 core flexible wire etc. complete as required. | Each | 180.00 |
| 10.3 | Fixing of Flourescent Tube fitting with pendant arrangement of two pieces of approved metalic chain with necessary material including connection with 3 core flexible wire etc. complete as required. |  |  |
| 1 | For pendent length up to 1.5 meter | Each | 169.00 |
| 2 | Add additional pendent length in excess of 1.5 meter | meter | 72.00 |
| 10.4 | Fixing of Flourescent Tube fitting with stiff pendant arrangement of two pieces of steel conduit and with anchor fastener /J hook \& other necessary material including connection with 3 core flexible wire etc. complete as required. |  |  |
| 1 | For pendent length up to 1.5 meter | Each | 308.00 |
| 2 | Add additional pendent length in excess of 1.5 meter | meter | 201.00 |
| 10.5 | Fixing of Flourescent Tube recessed / concealed mounting Fitting in existing recesses with necessary material including connection with 3 core flexible wire etc. complete as required. | Each | 87.00 |
| 10.6 | Supplying and fixing fan clamps of 16 mm dia steel bar as per specification complete :- |  |  |
| 1 | For stone slab roof "J" Type hook | Each | 63.00 |
| 2 | For R.C.C. Slabs / Beams | Each | 22.00 |
| 3 | For existing old R.C.C. Slabs / Beams | Each | 63.00 |
| 10.7 | Supplying and fixing fan clamps with hook on existing T.W. beam/ trusses with required size flat iron etc.as per specification complete :- | Each | 57.00 |
| 10.8 | Erection of ceiling fan in position with regulator on existing switch board including wiring, testing etc. with necessary material complete as required. | Each | 95.00 |
| 10.9 | Fixing of fan Regulator on existing switch board in position with necessary material connection etc.complete as required. | Each | 16.00 |
| 10.10 | Erection of exhaust fan / wall bracket fan/cabin fan in position with required PVC cable, rawl bolts etc. complete including connections and making wall surface good. | Each | 70.00 |
| 10.11 | Supplying and fixing down rod of MS pipe for ceiling fan including threading, painting, making holes etc. as required complete :- | meter | 88.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 10.12 | Numbering of ceiling fans or fittings with approved paint including all labour material etc. complete as required :- |  |  |
| 1 | Lettering up to 7 cm height | Each | 1.00 |
| 2 | Lettering above 7 cm but up to 15 cm height | Each | 2.00 |
| 10.13 | Providing and fixing pilot lamp over Main Distribution Fuse Boards / Boxes with 16 mm bracket with lamp holder, paw shade, controlling switch , including wiring and other necessary material as required | Each | 44.00 |
| 10.14 | Providing and fixing wooden board of suitable size (maxinum 12" X 18" ) for fixing of house service meter with necessary materials and connection testing etc. complete as per specification : |  |  |
| 1 | Single phase meter | Each | 100.00 |
| 2 | Three phase meter | Each | 103.00 |
| 10.15 | Chemical Servicing of Window /Split Air Conditioning unit 1.5 TR/2 TR capacity including cleaning of cooling \& condensing units,filters,grills etc \& all other parts oiling \& greasing of fan motor testing of A.C unit etc. | Each | 568.00 |
| 10.16 | Providing \& refilling of wood wool / Khas pads of normal size cooler panels 3 Nos including scraping of old paint, making surface even,painting with red oxide primer \& two coats of paint of required shade including fixing new wiremesh complete. | Each | 482.00 |
| 10.17 | Servicing \& overhauling of cooler fan motor, pump including replacemnt of distribution \& delivary pipes, PVC elbows, painting etc. as reqd. complete with nacessary material \& labour including replacement of connection leads. | Each | 228.00 |
| 10.18 | Rewinding of fans by copper enamelled wire of suitable gauge including all required material, insulation, varnishing,connection leads,oiling .greasing etc complete with testing including dismentalling \& refitting of fan at site.Scrap old material is not returnable to the department. |  |  |
| 1 | Ceiling Fan 1400 mm sweep new model / Exhaust Fan 380 mm sweep | Each | 456.00 |
| 2 | Ceiling Fan 1200 mm sweep new model / Exhaust Fan 300 mm sweep | Each | 401.00 |
| 3 | Fresh Air Fan up to 300 mm sweep / Wall Bracket /Cabin Fan 400 mm sweep | Each | 285.00 |
| 10.19 | Cleaning, overhauling, servicing of ceiling / Exhaust / Wall bracket fan by applying grease \& oil, including testing with mounting / Hanging arrangement including replacement of safty pins, check nuts,lock nut,nut bolts etc. making perfect allignment \& refitting at site as required. | Each | 117.00 |
| 10.20 | Supplying \& Fixing of Batten type Tube fitting (Channel Type) single 4' x 40 / 36 watts complete with copper wound choke, rotor holders, starter holder, starter duly wired ( without tube rod ) on wooden block with nacessary materials complete as reqd. | Each | 316.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| LABOUR RATES FOR WIRING |  |  |  |
| 10.21 | Labour rate for point wiring a Light / Fan / Twin control light / Socket out let on seperate board / Call bell Point in (open) surface rigid steel conduit system. | Each | 72.00 |
| 10.22 | Labour rate for point wiring a Light / Fan / Twin control light / Socket out let on seperate board / Call bell Point in recessed/concealed rigid steel conduit system. | Each | 233.00 |
| 10.23 | Labour rate for point wiring a Light / Fan / Twin control light / Socket out let on seperate board / Call bell Point in (open) surface rigid PVC conduit system. | Each | 75.00 |
| 10.24 | Labour rate for point wiring a Light / Fan / Twin control light / Socket out let on seperate board / Call bell Point in recessed/concealed rigid PVC conduit system. | Each | 405.00 |
| 10.25 | Labour rate for point wiring a Power Point in surface rigid steel conduit system including labour for fixing earth continuity conductor . | Each | 319.00 |
| 10.26 | Labour rate for point wiring a Power Point in recessed/concealed rigid steel conduit system including labour for fixing earth continuity conductor . | Each | 524.00 |
| 10.27 | Labour rate for fixing rigid steel conduit in surface /concealed conduit wiring system, as per specification . |  |  |
| 1 | 20 mm Conduit | meter | 32.00 |
| 2 | 25 mm \& 32 mm Conduit | meter | 32.00 |
| 3 | 40 mm \& 50 mm Conduit | meter | 33.00 |
| 10.28 | Labour rate for rewiring a Light / Fan / Twin control light / Socket out let on seperate board / Call bell Point in rigid steel / rigid PVC non metalic conduit in (open) surface conduit wiring system. | each | 109.00 |
| 10.29 | Labour rate for rewiring a Light / Fan / Twin control light / Socket out let on seperate board / Call bell Point in rigid steel / rigid PVC non metalic conduit in recessed/concealed conduit wiring system. | each | 109.00 |
| 10.30 | Labour rate for fixing rigid PVC conduit as per specification in recessed/concealed conduit wiring system. |  |  |
| 1 | 20 mm Conduit | Each | 20.70 |
| 2 | 25 mm \& 32 mm Conduit | Each | 20.64 |
| 3 | 40 mm \& 50 mm Conduit | Each | 24.66 |
| 10.31 | Labour rate for drawing cables in existing rigid steel conduit ( surface or recessed/concealed) |  |  |
|  | "A" 2 Wires -- |  |  |
| 1 | $2.5 \mathrm{sq} \mathrm{mm} / 4 \mathrm{sq} \mathrm{mm} / 6 \mathrm{sq} \mathrm{mm}$ | meter | 18.00 |
| 2 | $10 \mathrm{sq} \mathrm{mm} / 16 \mathrm{sq} \mathrm{mm} / 25 \mathrm{sq} \mathrm{mm}$ | meter | 21.00 |
| 3 | $35 \mathrm{sq} \mathrm{mm} / 50 \mathrm{sq} \mathrm{mm}$ | meter | 21.00 |
| 10.32 | "B" 3 Wires \& 4 Wires |  |  |
| 1 | $2.5 \mathrm{sq} \mathrm{mm} / 4 \mathrm{sq} \mathrm{mm} / 6 \mathrm{sq} \mathrm{mm}$ | meter | 19.00 |
| 2 | $10 \mathrm{sq} \mathrm{mm} / 16 \mathrm{sq} \mathrm{mm} / 25 \mathrm{sq} \mathrm{mm}$ | meter | 20.00 |
| 3 | $35 \mathrm{sq} \mathrm{mm} / 50 \mathrm{sq} \mathrm{mm}$ | meter | 20.00 |


| CHAPTER - 11 |  |  |  |
| :---: | :---: | :---: | :---: |
| Earthing |  |  |  |
| S.No. | Description of Items | Unit | Rate |
| 11.1 | Earthing with G.I. Earth pipe 4.5 meter long and 40 mm dia with masonary enclosure in cement mortor, cover plate having locking arrangment on the top etc.(but without charcoal or coke and salt) complete as required. | Each | 1712.00 |
| 11.2 | Add Extra for using salt and charcoal / coke for pipe earth electrode as required including excavation \& refilling. |  |  |
| 1 | Excavation 2.5 cum by manual labour | Each | 591.00 |
| 2 | Excavation by making hole with Auger | Each | 537.00 |
| 11.3 | Earthing with G.I. Earth plate $600 \mathrm{~mm} \times 600 \mathrm{~mm} \times 6 \mathrm{~mm}$ thick including accessories and providing masonary encloser in cement mortor, cover plate having locking arrangment on the top and G.I. watering pipe 20 mm dia 2.7 meter long etc. (but without charcoal or coke and salt ) complete as required. | Each | 2314.00 |
| 11.4 | Earthing with Copper Earth plate $600 \mathrm{~mm} \times 600 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick including accessories and providing masonary encloser in cement mortor, cover plate having locking arrangment on the top and G.I. watering pipe 20 mm dia 2.7 meter long etc. (but without charcoal or coke and salt) complete as required. | Each | 6930.00 |
| 11.5 | Add Extra for using salt and charcoal / coke for G.I. Plate or Copper plate earth electrode as required including excavation \& refilling. | Each | 472.00 |
| 11.6 | Supplying and laying 8 SWG copper wire at 0.5 meter below ground level as conductor earth electrode including soldering etc. as required. | meter | 75.00 |
| 11.7 | Supplying and laying 6 SWG G.I. wire at 0.5 Meter below ground level as conductor earth electrode including soldering etc. as required. | meter | 14.00 |
| 11.8 | Supplying and laying $25 \mathrm{~mm} \times 5 \mathrm{~mm}$ G.I. strip at 0.5 meter below ground level as strip earth electrode including soldering etc. as required. | meter | 59.00 |
| 11.9 | Supplying and laying $25 \mathrm{~mm} \times 6 \mathrm{~mm}$ G.I. strip at 0.5 meter below ground level as strip earth electrode including soldering etc. as required. | meter | 70.00 |
| 11.10 | Providing \& fixing $25 \mathrm{~mm} \times 5 \mathrm{~mm}$ copper strip in 40 mm dia G.I.pipe from earth electrode as required. | meter | 890.00 |
| 11.11 | Providing \& fixing $25 \mathrm{~mm} \times 5 \mathrm{~mm}$ G.I.strip in40mm dia G.I. Pipe(B class) from earth electrode as required. | meter | 262.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 11.12 | Providing and laying earth connections from earth electrode with 4.00 mm dia G.I. wire in 15 mm dia G.I. Pipe(B class) from earth electrode as required. | meter | 90.00 |
| 11.13 | Providing and laying earth connections from earth electrode with 4.00 mm dia copper wire in 15 mm dia G.I. Pipe(B class) from earth electrode as required. | meter | 145.00 |
| 11.14 | Providing \& fixing $25 \mathrm{~mm} \times 5 \mathrm{~mm}$ copper strip on surface or recessed for connection etc. as required. | meter | 754.00 |
| 11.15 | Providing and fixing $25 \mathrm{~mm} \times 4 \mathrm{~mm}$ G.I. strip on surface or in recessed/concealed for connection etc. as required. | meter | 94.00 |
| 11.16 | Providing and fixing 4.00 mm G.I. wire on surface or in recessed/concealed for loop earthing as required. | meter | 29.00 |
| 11.17 | Providing and fixing 4.00 mm copper wire on surface or in recessed/concealed for loop earthing as required. | meter | 93.00 |
| 11.18 | Supplying and drawing 4.00 sq.mm.Aluminium conductor wire for loop earthing in the existing surface/ recessed/concealed conduit along other wires as required. | meter | 25.00 |
|  | LIGHTNING CONDUCTOR |  |  |
| 11.19 | Providing and fixing of lightning conductor finial made of 25 mm dia 300 mm long copper tube having single prong at top with 85 mm dia 3 mm thick copper base plate including holes complete as required. | Each | 1237.00 |
| 11.20 | Providing and fixing of lightning conductor finial made of 25 mm dia 300 mm long G.I. tube having single prong at top with 85 mm dia 6 mm thick G.I. base plate including holes complete as required. | Each | 446.00 |
| 11.21 | Fixing of lightning conductor finial made of 25 mm dia 300 mm long copper tube / G.I. tube having single prong at top with base plate etc.complete as required. | Each | 118.00 |
| 11.22 | Rivetting / Sweating and soldering of copper / G.I. Tape (with another copper / G.I. Tape, base of finial or any other metallic object ) as required. | Each | 81.00 |
| 11.23 | Providing and fixing copper tape $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick on parapet and surface of wall of lightening conductor as required ( for Horizontal runs ) | meter | 332.00 |
| 11.24 | Providing and fixing copper tape $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick on parapet and surface of wall of lightening conductor as required ( for Vertical runs ) | meter | 344.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 11.25 | Providing and fixing G.I. tape $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick on parapet and surface of wall of lightening conductor as required (for Horizontal runs ) | meter | 41.00 |
| 11.26 | Providing and fixing G.I. tape $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick on parapet and surface of wall of lightening conductor as required ( for Vertical runs ) | meter | 53.00 |
| 11.27 | Fixing of copper / G.I. Tape $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick on parapet and surface of wall for lightening conductor as required ( for Horizontal runs ) | meter | 16.00 |
| 11.28 | Fixing of copper / G.I. Tape $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick on parapet and surface of wall for lightening conductor as required ( for Vertical runs ) | meter | 29.00 |
| 11.29 | Providing and fixing " Testing Joint" made by $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick copper strip 125 mm long with 4 Nos of tinned Brass bolts, Nut, check nuts and spring washers etc. complete as required . | Each | 213.00 |
| 11.30 | Providing and fixing " Testing Joint" made by $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick G.I. strip 125 mm long with 4 Nos of G.I. bolts, Nut, check nuts and spring washers etc. complete as required. | Each | 61.00 |
| 11.31 | Providing and laying copper tape $32 \mathrm{~mm} \times 6 \mathrm{~mm}$ thick for earth electrode directly in ground as required | meter | 1026.00 |
| 11.32 | Providing and laying G.I. tape $38 \mathrm{~mm} \times 6 \mathrm{~mm}$ thick for earth electrode directly in ground as required. | meter | 104.00 |
| 11.33 | Laying of copper / G.I. tape $32 \mathrm{~mm} \times 6 \mathrm{~mm}$ thick for earth electrode directly in ground as required. | meter | 17.00 |
|  | EARTHING FOR DOMESTIC ELECTRIC INSTALLATION |  |  |
| 11.34 | Providing and fixing earthing arrangement with 16 mm dia 2.5 meter long galvanized iron or steel rod electrode including packing of charcoal powder and salt as per specification watering pipe 19 mm dia G.I. Connection etc. complete with refilling the pit as required, but excluding the excavation of earth pit. | Each | 614.00 |
| 11.35 | Providing and fixing earthing arrangement with 38.1 mm dia 2.5 meter long galvanized iron pipe electrode including packing of charcoal powder and salt as per specification watering pipe 19 mm dia G.I. Connection etc. complete with refilling the pit as required, but excluding the excavation of earth pit. | Each | 919.00 |
| 11.36 | Supplying and laying G.I. earth lead duly installed on wall or in G.I. Pipe including connections etc.complete as required. |  |  |
| 1 | $13 \mathrm{sq} \mathrm{mm} \mathrm{( } 4 \mathrm{~mm}$ dia ) | meter | 9.00 |
| 2 | $25 \mathrm{sq} \mathrm{mm} \mathrm{( } 5.6 \mathrm{~mm}$ dia ) | meter | 13.00 |
| 3 | $40 \mathrm{sq} \mathrm{mm} \mathrm{( } 7.1 \mathrm{~mm}$ dia ) | meter | 18.00 |


| S.No. | Description of Items | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 11.37 | Providing and laying earth continuity conductor including fixing with |  |  |
| (A) | Aluminium Earth Continuity Conductor :- |  |  |
| 1 | 6 Sq mm . | meter | 8.00 |
| 2 | 10 Sq mm . | meter | 11.00 |
| 3 | 16 Sq mm | meter | 14.00 |
| 4 | 25 Sq mm . | meter | 21.00 |
| (B) | G.I. Or Steel Earth Continuity Conductor :- |  |  |
| 1 | 6 Sq mm . | meter | 6.00 |
| 2 | 10 Sq mm . | meter | 8.00 |
| 11.38 | Providing and laying earth Continuity Conductor of 4 Sq mm Aluminium along the run of final sub circuit in PVC conduit in an approved manner. | meter | 7.00 |
| 11.39 | Supplying and drawing PVC insulated copper cable ( Earth Continuity Conductor ) of Green colour FR with copper multi strand conductor ISI marked in existing conduit along with other wires as required as per specification : |  |  |
| 1 | 4 Sq mm | meter | 40.00 |
| 2 | 6 Sq mm . | meter | 52.00 |
| 3 | 10 Sq mm . | meter | 85.00 |
| 4 | 16 Sq mm | meter | 132.00 |
| 11.40 | Supplying and erecting earth pit of minmum bore dia 150 mm size, approved make safe earthing electrode consiting pipe in pipe tecnologie as per IS 3043-1987 made of corriosion free GI pipes having outer pipe dia of 50 mm having 80-200 micron galvanising, inner pipe dia of 25 mm having 20-250 micron galavinsing, connection teriminal dia of 12 mm with constent OHMIC value sourrounded by highly conductiv compund with high charge disipation sutible for effective and maintence free earthing |  |  |
| 1 | with 2 mtr . Pipe in normal soil with 25 kg (one bag) back filling compound | each | 7200 |
| 2 | with 3 mtr. Pipe in normal soil with 50 kg (two bag) back filling compound | each | 10800 |
| 3 | with 2 mtr . Pipe of 80 mm outer dia, 40 mm inner dia and 14 mm terminal dia, in soft rock/marshy soil with 25 kg (one bag) back filling compound | each | 8800 |
| 4 | with 3 mtr . Pipe of 80 mm outer dia, 40 mm inner dia and 14 mm terminal dia, in soft rock/marshy soil with 25 kg (two bag) back filling compound | each | 13300 |
| 11.41 | Providing back filling compund suitable for safe earthing divice. | kg | 36 |


| CHAPTER - 12 |  |  |  |
| :---: | :---: | :---: | :---: |
| Dismantiling of Civil and Electrical Works |  |  |  |
| S.No. | Description of Items | Unit | Rate |
| 12.1 | Dismantling of existing light / Fan / Bell / Socket out let point on separate board / Wiring with insulated wire in casing / conduit / Batten complete with fitting and accessories | point | 8.00 |
| 12.2 | Making the site clear of the dismantling installation by refilling the hole with cement mortar \& finished with paint gitties and replacing to match the colour of wall \& ceilling. | point | 10.00 |
| 12.3 | Dismantling of existing socket outlet point on same board in any system of wiring | point | 6.00 |
| 12.4 | Dismantling the existing armoured / unarmoured cable or single core wires of submain, main , circuit in any system of wiring including recoiling. | meter | 7.00 |
| 12.5 | Dismantling of existing underground cable safely with its accessories and refilling the trench to ground level including recoiling of dismentalled cable. | meter | 14.00 |
| 12.6 | Dismantling of D.F. Board, D.P. Switch, T.P. \&T.P.N. Switch or D.B. of any size complete with board or angle / flat iron frame and making site clear including the refilling hole \& repainting to match colour of wall. | Each | 9.00 |
| 12.7 | Dismantling of D.F. Board, D.P.Switch , T.P. \& T.P.N. Switch or D.B. of any size only | Each | 7.00 |
| 12.8 | Dismantling the existing Ceiling / exhaust / cabin fan with complete accessories and making the site clear. | Each | 16.00 |
| 12.9 | Dismantling of existing steel pole, R.S.Joist, girder with bracket clamps insulator or stay from the cement concrete foundation and making the site clear by refilling the pit to ground level. | Each | 324.00 |
| 12.10 | Dismantling of existing water tight flourescent tube fitting / M.V. Lamp fitting with making the site clear. | Each | 12.00 |
| 12.11 | Dismantling of existing water tight fitting / M.V. Lamp fitting with extension bracket, clamp from pole or wall with making the site clear. | Each | 16.00 |
| 12.12 | Dismantling of existing geyser or storage type water heater and making the site good by colour wash etc.as required. | Each | 30.00 |
| 12.13 | Providing recess in brick wall suitable for erection of exhaust fan up to 450 sweep complete with grouting of nut bolts, plastering and colour wash to match the colour of wall. |  |  |
| 1 | For wall thickness up to 9" | Each | 229.00 |
| 2 | For wall thickness up to 15" | Each | 392.00 |
| 3 | For the stone wall thickness up to 15" | Each | 501.00 |


| CHAPTER-13 |  |  |  |
| :---: | :---: | :---: | :---: |
| EXTERNAL ELECTRIFICATION AND OVERHEAD LINES |  |  |  |
| S.No. | Description of Item | Unit | Rate (in Rs) |
|  | SUPPORT FOR OVER HEAD LINE |  |  |
| 13.1 | Supply of support for overhead line Rail pole of I.S. standard including welding, drilling of required hole etc. complete as required. |  |  |
| 1 | Rail pole standard weight 52 kg per meter | meter | 2240.00 |
| 2 | Rail pole std. weight 26 kg per meter | meter | 1155.00 |
| 3 | Rail pole std. weight 21 kg per meter | meter | 702.00 |
| 13.2 | Supply of support for overhead line RS joist / H-beam of I.S. standard including welding, drilling of required hole etc. complete as required. |  |  |
| 1 | R.S. Joist $100 \times 200-25.4 \mathrm{~kg}$ per meter | meter | 1129.00 |
| 2 | R.S. Joist $175 \times 90-19.3 \mathrm{~kg}$ per meter | meter | 858.00 |
| 3 | R.S. Joist $150 \times 100-17 \mathrm{~kg}$ per meter | meter | 755.00 |
| 4 | R.S. Joist $150 \times 80-14.9 \mathrm{~kg}$ per meter | meter | 662.00 |
| 5 | R.S. Joist $125 \times 75-13 \mathrm{~kg}$ per meter | meter | 578.00 |
| 6 | H-Beam 152x152mm , Std weight 37.1 kg per meter | meter | 1648.00 |
| 13.3 | Supply of steel tubular pole swaged type as per IS:27131980 Complete with baseplate and top Canopy |  |  |
| 1 | 410 SP-2-7.00 meter | Each | 6469.00 |
| 2 | 410 SP-5-7.50 meter | Each | 6931.00 |
| 3 | 410 SP-8-7.50 meter | Each | 8780.00 |
| 4 | 410 SP-11-8.00 meter | Each | 7239.00 |
| 5 | 410 SP-14-8.00 meter | Each | 9396.00 |
| 6 | 410 SP-17-8.50 meter | Each | 7701.00 |
| 7 | 410 SP-20-8.50 meter | Each | 9704.00 |
| 8 | 410 SP-23-8.50 meter | Each | 12245.00 |
| 9 | 410 SP-26-9.00 meter | Each | 7932.00 |
| 10 | 410 SP-29-9.00 meter | Each | 10474.00 |
| 11 | 410 SP-32-9.00 meter | Each | 12707.00 |
| 12 | 410 SP-35-9.50 meter | Each | 10782.00 |
| 13 | 410 SP-38-9.50 meter | Each | 13169.00 |
| 14 | 410 SP-41-10.00 meter | Each | 11244.00 |
| 15 | 410 SP-44-10.00 meter | Each | 13786.00 |
| 16 | 410 SP-47-10.00 meter | Each | 17867.00 |
| 17 | 410 SP-50-11.00 meter | Each | 12168.00 |
| 18 | 410 SP-53-11.00 meter | Each | 14941.00 |
| 19 | 410 SP-56-11.00 meter | Each | 19408.00 |
| 20 | 410 SP-59-12.00 meter | Each | 16019.00 |
| 21 | 410 SP-62-12.00 meter | Each | 20794.00 |
| 22 | 410 SP-65-12.00 meter | Each | 24953.00 |
| 23 | 410 SP-68-13.00 meter | Each | 22488.00 |
| 24 | 410 SP-71-13.00 meter | Each | 18791.00 |
| 25 | 410 SP-73-14.50 meter | Each | 24876.00 |
| 26 | 410 SP-76-14.50 meter | Each | 30113.00 |
| 27 | 410 SP-77-16.00 meter | Each | 27109.00 |
| 28 | 410 SP-80-16.00 meter | Each | 32885.00 |
| 29 | 410 SP-10 (Bend type) 8.00 meter | Each | 6685.00 |
| 30 | 410 SP-16 (Bend type) 8.50 meter | Each | 7070.00 |
| 31 | 410 SP-25 (Bend type) 9.00 meter | Each | 7301.00 |
| 32 | 410 SP-34 (Bend type) 9.50 meter | Each | 10767.00 |
| 33 | 410 SP-40 (Bend type) 10.00 meter | Each | 11229.00 |
| 34 | 410 SP-49 (Bend type) 11.00\%meter | Each | 12153.00 |


| S.No. | Description of Item | Unit | Rate (in Rs) |
| :---: | :---: | :---: | :---: |
| 13.4 | Supplying of prestressed cement concrete (PCC) pole conforming to IS 785 at work site including required transportation. |  |  |
| 1 | PCC pole 8 mtrs. Long 140 kg | Each | 1680.00 |
| 2 | PCC pole 9.1 mtrs. Long 272 kg | Each | 3290.00 |
| 13.5 | Supplying and drawing All Aluminium Alloy conductor (AAAC) of approved make confirming to IS 398-1979 Pt. IV, including binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required including clearing of obstacles (if any) |  |  |
| 1 | 0.03 sq.inch / 20 sq.mm Alloy Aluminium Conductor | Km. | 21740.00 |
| 2 | 0.04 sq.inch / 25 sq.mm Alloy Aluminium Conductor | Km. | 35983.00 |
| 3 | 0.05 sq.inch / 30 sq.mm Alloy Aluminium Conductor | Km. | 36233.00 |
| 4 | 0.075 sq.inch / 48 sq.mm Alloy Aluminium Conductor | Km. | 53725.00 |
| 13.6 | Supplying and drawing of stranded Aluminium Conductor Steel Reinforced (ACSR) confirming to IS:398-1976 of approved make, stringing, making off complete with binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required and clearing of obstacles (if any) etc. |  |  |
| 1 | ACSR $6 / 1-2.11 \mathrm{~mm}$ dia (Squirrel) with equivalent copper area 13Sq.mm (or 0.02Sq.inch) \& calculated Alu. Area 20.71 Sq.mm. | Km. | 18835.00 |
| 2 | ACSR 6/1-2.36mm dia (Gopher) with equivalent copper area 16 Sq.mm or 0.025 inches and calculated aluminium area 25.91 Sq.mm. | Km. | 23489.00 |
| 3 | ACSR 6/1-2.59mm dia (Weasel)with equivalent copper area 20.00 Sq.mm ( 0.03 sq inch) with calculated aluminium area $31.21 \mathrm{Sq} . \mathrm{mm}$ | Km. | 28364.00 |
| 4 | ACSR $6 / 1-3.00 \mathrm{~mm}$ dia (Ferret) with equivalent copper area 25Sqmm ( 0.04 sq inch) calculated aluminium area 41.87 Sq.mm. | Km. | 37892.00 |
| 5 | ACSR 6/1-3.35mm dia (Rabbbit) with equivalent copper area 30 Sqmm ( 0.05 sq inch) calculated aluminium area 52.21Sq.mm. | Km. | 49758.00 |
| 6 | ACSR 6/1-3.66mm dia (Mink) with equivalent copper area 40 Sqmm ( 0.06 sq inch ) calculated aluminium area 62.32 sq.mm. | Km. | 59292.00 |
| 7 | ACSR 6/1-3.99mm dia (Beaver)with equivalent copper area 45 Sqmm ( 0.07 sq inch ) calculated aluminium area 74.07 Sq.mm | Km. | 70452.00 |
| 8 | ACSR 6/1-4.09mm dia (Raccoon) with equivalent copper area 48 Sqmm ( 0.075 sq inch) equivalent calculated Aluminium area 77.83 Sq.mm. | Km. | 64085.00 |
| 13.7 | Supplying and fixing guard insulator or split insulator complete: |  |  |
| 1 | 25x25mm | Pair | 22.00 |
| 2 | $37 \times 37 \mathrm{~mm}$ | Pair | 28.00 |
| 3 | $50 \times 50 \mathrm{~mm}$ | Pair | 37.00 |
|  |  |  |  |


| S.No. | Description of Item | Unit | Rate (in Rs) |
| :---: | :--- | :---: | :---: |
| 13.8 | $\begin{array}{l}\text { Supplying and drawing guard wire/earth wire/bearer wire } \\ 13 \mathrm{~mm}^{2} \text { (4mm. Dia) G.I. including stringing, binding at } \\ \text { existing insulators or brackets, jointing, jumpering, } \\ \text { connecting etc. as required and clearing of obstacles (if } \\ \text { any) }\end{array}$ | Km. | 8594.00 |
| 13.9 | $\begin{array}{l}\text { Supplying and erection of guards for existing overhead } \\ \text { lines as required including split insulator required as per } \\ \text { specification: }\end{array}$ |  |  |
| 1 | Cradle type |  |  |
| 2 | Hexagonal type | Each | 30.00 |
| 3 | Ring type | Each | 20.00 |
| 13.10 | $\begin{array}{l}\text { Supplying and erection of water tight terminal box of 14 } \\ \text { SWG M.S. Sheet 4mm thick box of required size to erect } \\ \text { the suitable kit kat/ MCB/Switch with Top \& bottom folded } \\ \text { fitted with rubber ring to make it water tight with pole clamp } \\ \text { made from 40x3mm M.S. flat iron with 2 Nos. Nut and Bolts } \\ \text { duly painted with 2 coat of Red Oxide paint and 2 coat of }\end{array}$ |  | 17.00 |
| $\begin{array}{ll}\text { Aluminium silver paint erected with cable gland but } \\ \text { excluding the cost of the Kit Kat/MCB/Switch complete as }\end{array}$ |  |  |  |
| per specification: |  |  |  |$)$


| S.No. | Description of Item | Unit | Rate (in Rs) |
| :---: | :---: | :---: | :---: |
| 13.13 | Erection of steel tubular or steel rail pole or H-Beam of length exceeding 8 meters but not exceeding 10 meters in cement concrete 1:3:6 ( 1 cement : 3 coarse sand: 6 graded stone aggregate 40 mm nominal size) foundation, base padding \& muffing including exacavation and refilling etc. as required.( 4.55 bags of cement/cmt.) | Each | 1494.00 |
| 13.14 | Erection of steel tubular or steel rail pole or H-Beam of length exceeding 10 meters but not exceeding 13 meters in cement concrete 1:3:6 ( 1 cement :3 coarse sand: 6 graded stone aggregate 40 mm nominal size) foundation, base padding \& muffing including excavation and refilling etc. as required.(4.55 bags of cement/cmt.) | Each | 1750.00 |
| 13.15 | Erection of R.C.C./P.C.C. pole of length exceeding 8 meters but not exceeding 11 meters in brick ballast and ramming the foundation including excavation and refilling etc.as required. | Each | 1532.00 |
| 13.16 | Erection of R.C.C./P.C.C. pole of length exceeding 11 meters but not exceeding 13 meters in brick ballast and ramming the foundation including excavation and refilling etc. as required. | Each | 1708.00 |
| 13.17 | Erection of metallic street light standard of length exceeding 4.5 meters but not exceeding 6.5 meters in cement concrete 1:3:6 (1cement:3coarse sand:6 graded stone aggregate 40 mm nominal size) foundation with cement concrete coller of size 0.4 meters dia $\times 0.5$ meters height to accommodate the looping type cable end box including excavation and refilling etc. as required. | Each | 1144.00 |
| 13.18 | Erection of metallic street light standard of length exceeding 6.5 meters but not exceeding 8 meters in cement concrete 1:3:6 (1cement:3coarse sand:6 graded stone aggregate 40 mm nominal size) foundation with cement concrete coller of size 0.4 meters dia $\times 0.5$ meters height to accommodate the looping type cable end box including excavation and refilling etc. as required. | Each | 1361.00 |
| 13.19 | Erection of steel tubular or rail pole strut in cement concrete 1:3:6 (1cement:3coarse sand: 6 aggregate 40 mm nominal size) foundation including excavation and refilling and secured with holding clamps, nuts and bolts, etc. as required. | Each | 1818.00 |
| 13.20 | Erection of RCC/PCC pole struct in bricballast and ramming the foundation including excavation and refilling and secured with holding clamps nuts and bolts etc. as required. | Each | 1932.00 |


| S.No. | Description of Item | Unit | Rate (in Rs) |
| :---: | :---: | :---: | :---: |
| 13.21 | Supplying and erection of stay set complete (Galvanized) 19 mm . Dia $\times 1.8$ meter long stay rod anchor plate of size $300 \mathrm{~mm} \times 300 \mathrm{~mm} \times 6.4 \mathrm{~mm}$ thimble stay clamps, turn buckle ( 19 mm dia $\times 60 \mathrm{~cm}$ ), $7 / 4.00 \mathrm{~mm}$ dia G.I. Stay wire and strain insulator etc. in cement concrete 1:3:6 (1 Cement : 3 Coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. | Each | 2273.00 |
| 13.22 | Supplying and erection of stay set complete (Galvanized) with 19 mm dia $\times 1.8$ meter long stay ancher plate of size $300 \mathrm{~mm} \times 300 \mathrm{~mm} \times 6.4 \mathrm{~mm}$ thimble stay clamps turn buckle $19 \mathrm{~mm} \times 560 \mathrm{~cm} 7 / 3.15 \mathrm{~mm}$ dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 Cement : 3 Coarse and : 6 granded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. | Each | 2120.00 |
| 13.23 | Supplying and erection of stay set complete (Galvanized) with 19 mm .dia 1.8 meter long stay rod, ancher plate of size $300 \mathrm{~mm} \times 300 \mathrm{~mm} \times 6.4 \mathrm{~mm}$ thimble stay clamps, bow tightener, $7 / 4.00$ dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 Cement : 3 Coarse and : 6 granded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. | Each | 2280.00 |
| 13.24 | Supplying and erection of stay set complete (Galvanized) with 19 mm .dia 1.8 meter long stay rod, ancher plate of size $300 \mathrm{~mm} \times 300 \mathrm{~mm} \times 6.4 \mathrm{~mm}$ thimble stay clamps, bow tightener, $7 / 3.15$ dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 Cement: 3 Coarse and: 6 granded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. | Each | 2127.00 |
| 13.25 | Erection of stay set complete (Galvanized) in cement concrete 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. | Each | 929.00 |
| 13.26 | Supplying and erection of bow stay set complete (galvanized) with 19 mm dia $\times 1.8 \mathrm{~m}$ long stay rod, anchor plate of size $300 \mathrm{~mm} \times 300 \mathrm{~mm} \times 6.4 \mathrm{~mm}$ thimble stay clamps, turn buckle $19 \mathrm{~mm} \times 60 \mathrm{~cm}, 7 / 4.00 \mathrm{~mm}$ dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 ( 1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size $50 \mathrm{~mm} \times 50 \mathrm{mmx} 6 \mathrm{~mm}$ angle iron with 50 mm dia pulley fixed at one end of the brace as required. | Each | 2567.00 |


| S.No. | Description of Item | Unit | Rate (in Rs) |
| :---: | :---: | :---: | :---: |
| 13.27 | Supplying and erection of bow stay set complete (galvanized) wiith 19 mm dia. X 1.8 m long stay rod anchor plate of size $300 \mathrm{~mm} \times 300 \mathrm{~mm} \times 6.4 \mathrm{~mm}$ thimble stay clamps turn buckle $19 \mathrm{~mm} \times 60 \mathrm{~cm}, 7 / 3.15 \mathrm{~mm}$ dia G.I. Stay wire and strain insulator etc. in cement concrete 1:3:6 (1cement : 3 coarse sand : 6 graded stone aggregate 400 mm nominal size foundation including excavation and refilling and also with 0.6 m long brace of size $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron with 50 mm dia pulley fixed at one end of the brace as required. | Each | 2414.00 |
| 13.28 | Supplying of channel iron $75 \mathrm{~mm} \times 40 \mathrm{~mm}(5.7 \mathrm{~kg} / \mathrm{m})$ cross arm for 2 wire overhead line complete with clamps, bolts and nuts etc.including painting as required | Set | 301.00 |
| 13.29 | Supplying of channel iron $75 \mathrm{~mm} \times 40 \mathrm{~mm}(5.7 \mathrm{~kg} / \mathrm{m})$ cross arm <br> for 4 wire overhead line complete with clamps, bolts and nuts etc.including painting as required | Set | 524.00 |
| 13.30 | Supplying of channel iron $100 \mathrm{~mm} \times 50 \mathrm{~mm} \times 7.9 \mathrm{~kg}$.Per M cross arm for 4 wire overhead line complete with clamps, bolts and nuts etc..including painting as required | Set | 892.00 |
| 13.31 | Supplying of angle iron $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}(4.5 \mathrm{~kg} / \mathrm{m})$ cross arm for 2 wire overhead line complete with clamps, bolts and nuts etc.including painting as required. | Set | 234.00 |
| 13.32 | Supplying of angle iron $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}(4.5 \mathrm{~kg} / \mathrm{m})$ cross arm for 4 wire overhead line complete with clamps, bolts and nuts etc.including painting .as required. | Set | 375.00 |
| 13.33 | Erection of angle iron/channel iron cross arm on existing pole etc. as required. | Set | 53.00 |
| 13.34 | Supply and Erection of galvanized 'D' iron bracket complete with shackle insulator ( $75 \mathrm{~mm} \times 90 \mathrm{~mm}$ ) bolts and nuts, coach screws etc..including painting as required. | Set | 172.00 |
| 13.35 | supply \& Erection of galvanized 'D' iron complete with shackle insulator ( $100 \mathrm{mmx110mm}$ ) bolts and nuts, coach screws etc..including painting as required. | Set | 196.00 |
| 13.36 | Erection of galvanized 'D' iron and insulator on pole as required. | Set | 13.00 |
| 13.37 | Supplying and erection of $75 \mathrm{~mm} \times 90 \mathrm{~mm}$ shackle insulator with G.I. bolts, nuts and straps etc. as required. | Each | 89.00 |


| S.No. | Description of Item | Unit | Rate (in Rs) |
| :---: | :---: | :---: | :---: |
| 13.38 | Supplying and erection of 100 mmx 110 mm shackle insulator with G.I. bolts, nuts and straps etc. as required. | Each | 112.00 |
| 13.39 | Supplying and erection of $100 \mathrm{~mm} \times 65 \mathrm{~mm}$ pin insulator complete with G.I. spindle and nuts etc. as required. | Each | 55.00 |
| 13.40 | Supplying and erection of $100 \mathrm{~mm} \times 80 \mathrm{~mm}$ pin insulator complete with G.I. spindle and nuts etc. as required. | Each | 52.00 |
| 13.41 | Erection of shackle/pin insulator etc. as required. | Each | 14.00 |
| 13.42 | Erection of G.I. wire No. 8 SWG including binding etc.as required. | Km. | 543.00 |
| 13.43 | Erection of hexagonal type guard as required (labour only) | Each | 38.00 |
| 13.44 | Erection of ring type guard as required ( Labour only) | Each | 13.00 |
| 13.45 | Erection of cradle guard as required (Labour only) | Each | 25.00 |
| 13.46 | Supplying and erection of 15A aerial fuse complete as required. | Each | 44.00 |
| 13.47 | Supplying and erection of 30A aerial fuse complete as required. | Each | 53.00 |
| 13.48 | Erection of aerial fuse as required. | Each | 19.00 |
| 13.49 | Fixing of lightning arrestor (labour only) | Each | 29.00 |
| 13.50 | Supplying and fixing of 20 mm dia. G.I. pipe A class 3 mtrs . in length for street light water tight bracket including bending to shape and wiring with 1.5 sqmm W.P./PVC wire alongwith water proof controlling switch etc. as required. | Each | 480.00 |
| 13.51 | Supplying and fixing of 20 mm dia. G.I. pipe A class 2 mtrs . Long for street light water tight bracket including bending to shape and wiring with 1.5 sqmm W.P./PVC wire alongwith water proof controlling switch etc. as required. | Each | 599.00 |
| 13.52 | Supplying and fixing of 32 mm dia. $\times 2.00 \mathrm{mtr}$. Long G.I. pipe $B$ class bracket for mounting of flourescent street light fittings on poles including bending the pipe to the required shape and wiring with $1.5 \mathrm{Sq} . \mathrm{mm}$ W.P./PVC wire etc. as required. | Each | 488.00 |
| 13.53 | Providing and fixing $50 \mathrm{~mm} \times 3.2 \mathrm{M} . \mathrm{G} . \mathrm{I}$. Long pipe (including accessories) complete with $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron bracket on wall and $75 \mathrm{~mm} \times 90 \mathrm{~mm}$ shackle insulator with straps for house service connection. | Each | 1088.00 |


| S.No. | Description of Item | Unit | Rate (in Rs) |
| :---: | :---: | :---: | :---: |
| 13.54 | Providing and fixing $50 \mathrm{~mm} \times 5.6 \mathrm{M}$.G.I. Long pipe (including accessories) complete with $50 \mathrm{~mm} \times 50 \mathrm{mmx} 6 \mathrm{~mm}$ angle iron cross arm and M.S. flat iron, bends for guard wire 75 mmx 90 mm shackle insulator with straps $7 / 3.15 \mathrm{~mm}$ G.I. wire, stay set for house service connection. | Each | 1712.00 |
| 13.55 | Dismantling of over head lines comprising of copper aluminium overhead conductor, G.I. wire, cross arm, insulators etc. as required. | Kg | 960.00 |
| 13.56 | Dismantling poles/street light standards/struts embedded in brick ballast etc. as required. | Each | 354.00 |
| 13.57 | Dismantling poles/street light standards/struts embedded in cement concrete foundation etc. as required. | Each | 470.00 |
| 13.58 | Supplying of angle/channel flat iron fitting for overhead lines such as cross arms, clamps, brackets, welding and other necessary materials as per specifications. | Kg . | 51.00 |
| 13.59 | Labour charges for fixing 'D' brackets of angle iron $50 \times 50 \times 6 \mathrm{~mm}$ size on existing pole as required | Each | 24.00 |
| 13.60 | Labour charges for fixing ' D ' brackets of angle iron $50 \times 50 \times 6$ mm size on existing wall masonary with required materials complete. | Each | 26.00 |
| 13.61 | Supplying and erection of galvanised stay set for 11 kV overhead line complete with $19 / 20 \mathrm{~mm}$ dia $\times 1.8$ meters long stay rod, anchor plate of size $45 \mathrm{~cm} \times 45 \mathrm{~cm} \times 7.5 \mathrm{~mm}$ thick, thimble, stay clamps, turn buckle ( 20 mmx 600 mm ), $7 / 4.00 \mathrm{~mm}$ dia G.I. stay wire and 11 kV strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm . nominal size) foundation including excavation and refilling etc. as required. | Set | 2331.00 |
| 13.62 | Supplying and erection of galvanised stay set for 33 kV overhead line complete with $19 / 20 \mathrm{~mm}$ dia $\times 1.8$ meters long stay rod, anchor plate of size $45 \mathrm{~cm} \times 45 \mathrm{~cm} \times 7.5 \mathrm{~mm}$ thick, thimble, stay clamps, turn buckle ( 20 mmx 600 mm ), $7 / 4.00 \mathrm{~mm}$ dia G.I. stay wire and 33 kV strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm . nominal size) foundation including excavation and refilling etc. as required. | Set | 2361.00 |
| 13.63 | Supplying of channel iron $75 \mathrm{~mm} \times 40 \mathrm{~mm} \times 7.14 \mathrm{Kg} / \mathrm{mtr}$. Pole top bracket/cross arm for single 11 kV overhead line conductor complete with $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ flat iron clamp, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. 'and painting with primer and finish paint as required | Each | 197.00 |


| S.No. | Description of Item | Unit | Rate (in Rs) |
| :---: | :---: | :---: | :---: |
| 13.64 | Supplying of channel iron $75 \mathrm{~mm} \times 40 \mathrm{~mm} \times 7.14 \mathrm{Kg} / \mathrm{mtr}$. Pole top bracket/cross arm for single 33kV overhead line conductor complete with $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ flat iron clamp, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. 'and painting with primer and finish paint as required | Each | 213.00 |
| 13.65 | Supplying of 50 mmx 8 mm M.S. Flat iron pole top bracket/cross arm for single $11 / 22 / 33 \mathrm{kV}$ overhead line conductor complete with fixing bolts, nuts and washers drilling holes for insulator pins, painting with primer and finish paint as required. | Each | 231.00 |
| 13.66 | Supplying of channel iron $75 \mathrm{~mm} \times 40 \mathrm{~mm} \times 7.14 \mathrm{Kg} / \mathrm{Mtr}$. cross arm for two 11 kV overhead line conductors complete with $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron bracket welded to the channel iron and complete with $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. and painting with primer and finish as required. | Each | 1004.00 |
| 13.67 | Supplying of channel iron $75 \mathrm{~mm} \times 40 \mathrm{~mm} \times 7.14 \mathrm{Kg} / \mathrm{Mtr}$.cross arm for two 33 kV overhead line conductors complete with $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron bracket welded to the channel iron and complete with $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. and painting with primer and finish as required. | Each | 1293.00 |
| 13.68 | Supplying of channel iron $75 \mathrm{~mm} \times 40 \mathrm{~mm} \times 7.14 \mathrm{~kg} / \mathrm{Mtr}$. Vshape cross arm for two 11 kV overhead line conductors complete with $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ M.S. flat iron clamp, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. and painting with primer and finish paint as required. | Each | 783.00 |
| 13.69 | Supplying of channel iron $75 \mathrm{~mm} \times 40 \mathrm{~mm} \times 7.14 \mathrm{~kg} / \mathrm{Mtr}$. Vshape cross arm for two 33 kV overhead line conductors complete with $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ M.S. flat iron clamp, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. and painting with primer and finish paint as required. | Each | 924.00 |
| 13.70 | Erection of pole top/straight two wire/V-shape two wire/angle iron/channel iron, Cross arm on steel tubular/Rail/Channel iron/PCC pole for $11 \mathrm{kV} / 33 \mathrm{kV}$ as required. | Set | 96.00 |
| 13.71 | Supplying of two lengths of channel iron $75 \mathrm{~mm} \times 40 \mathrm{~mm} \times$ $7.14 \mathrm{~kg} / \mathrm{mtr}$. Double pole cross arm for three wire 11 kV overhead line conductors complete with through bolts and nuts for clamping to the poles, $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ m.s flats welded on one side to the channel iron and with bolts and nuts on the other side for tying the cross arms together, including drilling holes for insulator pins/fittings, bolts and nuts etc. and painting with primer and finish paint as required. | Set | 2167.00 |


| S.No. | Description of Item | Unit | Rate (in Rs) |
| :---: | :---: | :---: | :---: |
| 13.72 | Supply and erection of a set of cross bracing frame work for 11 kv overhead line double pole structure having four members fabricated out of $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron to form a rectangle of minimum size 1400 mm width x 2500 mm height, complete with $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ flat iron clamps, bolts and nuts including drilling holes and painting with primer and finish paint as required. | Set | 2834.00 |
| 13.73 | Supplying of channel iron $100 \mathrm{~mm} \times 50 \mathrm{~mm} \times 9.56 \mathrm{~kg} / \mathrm{mtr}$, pole top bracket/cross arm for single 33 kV overhead line conductor complete with $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ flat iron clamp, bolts and nuts including holes for insulator pins, bolts and nuts etc. and painting with primer and finish as required. | Each | 267.00 |
| 13.74 | Supplying of channel iron $100 \mathrm{~mm} \times 50 \mathrm{~mm} \times 9.56 \mathrm{~kg} / \mathrm{mtr}$, cross arm for two wire 33 kV overhead line conductors complete with $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron bracket welded to the channel iron and complete with $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ flat iron clamps, bolts and nuts including drilling holes for insulator pins/fitting, bolts and nuts etc. and painting with primer and finish paint as required. | Each | 1531.00 |
| 13.75 | Supplying of channel iron $100 \mathrm{~mm} \times 50 \mathrm{~mm} \times 9.56 \mathrm{Kg} / \mathrm{Mtr}$. VShape cross arm for two 33 kV overhead line conductors complete with $50 \mathrm{~mm} \times 6 \mathrm{~mm} \times$ M.S. flat iron clmps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. painting with primer and finish paint as required. | Each | 1189.00 |
| 13.76 | Supplying of two lengths of channel iron $100 \mathrm{~mm} \times 50 \mathrm{mmx} 9.56 \mathrm{~kg} / \mathrm{mtr}$. Double pole cross arm for three wire 33 kV overhead line conductors complete with through bolts and nuts for clamping to the poles, $50 \mathrm{~mm} \times 6 \mathrm{~mm} \mathrm{~m} . \mathrm{s}$ flat welded on one side to the channel iron and with bolts and nuts on the other side for tying the cross arms together including drilling holes for insulator pins/fittings, bolts and nuts etc. and painting with primer and finish paint as required. | Set | 2891.00 |
| 13.77 | Erection of double pole 3-wire cross arm for $11 \mathrm{kV} / 22 \mathrm{kV} / 33$ overhead lines as required. | Each | 223.00 |
| 13.78 | Supplying and erection of a set of cross bracing frame work for 33 kV overhead line double pole structure having four members fabricated out of $65 \mathrm{~mm} \times 65 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron to form a rectangle of minimum size 2400 mm width x 2800 mm height, complete with 50 mmx 6 mm M.S. flat iron clamps, bolts and nuts including drilling holes and painting with primer and finish as required. | Set | 4458.00 |
| 13.79 | Supplying and erection of 11 kV pin insulator complete with large steel head G.I. pin, nut, washer etc. as required. | Set | 343.00 |
| 13.80 | Supplying and erection of 11 kV disc insulator for 11 kV overhead lines with galvanised insulator fittings, ball and socket type, and complete with galvanised strain clamp, bolts, nuts washer etc. as required. | Set | 1005.00 |


| S.No. | Description of Item | Unit | Rate (in Rs) |
| :---: | :--- | :---: | :---: |
| 13.81 | Supplying and erection of 33kV pin insulator complete with <br> large steel head G.I. pin, nut, washer etc. as required | Set | 934.00 |
| 13.82 | Supplying and erection of a set of three 11kV disc <br> insulators for 33kV overhead lines with galvanised insulator <br> fittings, ball and socket type, and complete with galvanised <br> strain clamp, bolts, nuts, washers etc. as required. | Set | 2832.00 |
| 13.83 | Erection of disc/pin insulator for 11kV overhead line as <br> required | Set | 29.00 |
| 13.84 | Supplying and erection of three piece nonlinear resistor <br> type lighting arrestor suitable for 3 wire, 11kV overhead <br> lines with rated voltage of 9kV (rms) with a nominal <br> discharge current rating of 5 KA and complete with <br> galvanised clamping arrangement, G.I. bolts, nuts, washer <br> etc. as required. | Set | 3972.00 |
| 13.85 | Supplying and erection of single piece non-linear resistor <br> type lightning arrestor for 3 wire, 33kV overhead lines with <br> rated voltage of 30kV (rms) with a nominal discharge <br> current rating of 5 KA and complete with galvanised <br> clamping arrangement, G.I. bolts, nuts, washer etc. as <br> required. | Set | 36422.00 |


| CHAPTER -14 |  |  |  |
| :---: | :---: | :---: | :---: |
| POWER CABLES \& LAYING |  |  |  |
| S.No. | Descripition of Item | Unit | rate |
| 14.1 | Supply of XLPE Insulated power cable (conforming IS-7098 ) 1100 Volt grade/Heavy duty power cable conforming to IS 1554-1100 Volts grade , 2 core $/ 31 / 2$ core $/ 4$ coreISI MARKED with Alu. Stranded /solid conductor |  |  |
| 14.1.1 | UNARMOURED 2 Core |  |  |
| 1 | 2.5 Sq.mm.(Heavy Duty) | meter | 45.00 |
| 2 | 4 Sq.mm.((Heavy Duty) | meter | 54.00 |
| 3 | 6 Sq.mm.(XLPE) | meter | 67.00 |
| 4 | 10 Sq.mm.(XLPE) | meter | 86.00 |
| 5 | 16 Sq.mm.(XLPE) | meter | 113.00 |
| 14.1.2 | ARMOURED 2 Core |  |  |
| 1 | 2.5 Sq.mm.(Heavy Duty) | meter | 99.00 |
| 2 | 4 Sq.mm.(Heavy Duty) | meter | 109.00 |
| 3 | 6 Sq.mm.(XLPE) | meter | 131.00 |
| 4 | 10 Sq.mm.(XLPE) | meter | 147.00 |
| 5 | 16 Sq.mm.(XLPE) | meter | 171.00 |
| 14.1.3 | UNARMOURED 3 Core |  |  |
| 1 | 6 Sq.mm.(XLPE) | meter | 84.00 |
| 2 | 10 Sq.mm.(XLPE) | meter | 110.00 |
| 3 | 16 Sq.mm.(XLPE) | meter | 143.00 |
| 4 | 25 Sq.mm(XLPE) | meter | 179.00 |
| 5 | 35 Sq.mm(XLPE) | meter | 228.00 |
| 6 | 50 Sq.mm(XLPE) | meter | 300.00 |
| 7 | 70 Sq.mm(XLPE) | meter | 416.00 |
| 8 | 95 Sq.mm.(XLPE) | meter | 529.00 |
| 14.1.4 | ARMOURED 3 Core |  |  |
| 1 | 6 Sq.mm.(XLPE) | meter | 150.00 |
| 2 | 10 Sq.mm.(XLPE) | meter | 171.00 |
| 3 | 16 Sq.mm.(XLPE) | meter | 188.00 |
| 4 | 25 Sq.mm(XLPE) | meter | 234.00 |
| 5 | 35 Sq.mm(XLPE) | meter | 298.00 |
| 6 | 50 Sq.mm(XLPE) | meter | 373.00 |
| 7 | 70 Sq.mm(XLPE) | meter | 494.00 |
| 8 | 95 Sq.mm.(XLPE) | meter | 613.00 |
| 14.1.5 | UNARMOURED 31122 CORE |  |  |
| 1 | 25 Sq.mm(XLPE) | meter | 216.00 |
| 2 | 35 Sq.mm(XLPE) | meter | 264.00 |
| 3 | 50 Sq.mm(XLPE) | meter | 353.00 |
| 4 | 70 Sq.mm(XLPE) | meter | 484.00 |
| 5 | 95 Sq.mm.(XLPE) | meter | 618.00 |
| 6 | 120 Sq.mm.(XLPE) | meter | 769.00 |
| 7 | 150 Sq.mm.(XLPE) | meter | 928.00 |
| 8 | 185 Sq.mm.(XLPE) | meter | 1166.00 |
| 9 | 240 Sq.mm.(XLPE) | meter | 1511.00 |
| 10 | 300 Sq.mm.(XLPE) | meter | 1858.00 |
| 11 | 400 Sq.mm.(XLPE) | meter | 2370.00 |
|  |  |  |  |


| S.No. | Descripition of Item | Unit | rate |
| :---: | :---: | :---: | :---: |
| 14.1.6 | ARMOURED $311 / 2$ CORE |  |  |
| 1 | 25 Sq.mm(XLPE) | meter | 276.00 |
| 2 | 35 Sq.mm(XLPE) | meter | 328.00 |
| 3 | 50 Sq.mm(XLPE) | meter | 430.00 |
| 4 | 70 Sq.mm(XLPE) | meter | 569.00 |
| 5 | 95 Sq.mm. (XLPE) | meter | 704.00 |
| 6 | 120 Sq.mm.(XLPE) | meter | 887.00 |
| 7 | 150 Sq.mm.(XLPE) | meter | 1033.00 |
| 8 | 185 Sq.mm.(XLPE) | meter | 1286.00 |
| 9 | 240 Sq.mm.(XLPE) | meter | 1634.00 |
| 10 | 300 Sq.mm.(XLPE) | meter | 1997.00 |
| 11 | 400 Sq.mm.(XLPE) | meter | 2513.00 |
|  |  |  |  |
| 14.1.7 | UNARMOURED 4 CORE |  |  |
| 1 | 6 Sq.mm.(XLPE) | meter | 95.00 |
| 2 | 10 Sq.mm.(XLPE) | meter | 118.00 |
| 3 | 16 Sq.mm.(XLPE) | meter | 168.00 |
| 4 | 25 Sq.mm(XLPE) | meter | 204.00 |
| 5 | 35 Sq.mm(XLPE) | meter | 271.00 |
| 6 | 50 Sq.mm(XLPE) | meter | 363.00 |
| 7 | 70 Sq.mm(XLPE) | meter | 487.00 |
| 8 | 95 Sq.mm.(XLPE) | meter | 637.00 |
| 9 | 120 Sq.mm.(XLPE) | meter | 799.00 |
| 10 | 150 Sq.mm.(XLPE) | meter | 987.00 |
|  |  |  |  |
| 14.1.8 | ARMOURED 4 CORE |  |  |
| 1 | 6 Sq.mm.(XLPE) | meter | 160.00 |
| 2 | 10 Sq.mm.(XLPE) | meter | 175.00 |
| 3 | 16 Sq.mm.(XLPE) | meter | 218.00 |
| 4 | 25 Sq.mm(XLPE) | meter | 268.00 |
| 5 | 35 Sq.mm(XLPE) | meter | 340.00 |
| 6 | 50 Sq.mm(XLPE) | meter | 441.00 |
| 7 | 70 Sq.mm(XLPE) | meter | 576.00 |
| 8 | 95 Sq.mm.(XLPE) | meter | 737.00 |
| 9 | 120 Sq.mm.(XLPE) | meter | 907.00 |
| 10 | 150 Sq.mm.(XLPE) | meter | 1100.00 |
| 14.2 | Supply of approved HighTension XLPE cable 11kVgrade as per ISI standard 3 core Armoured with Alu. Solid/stranded conductor ISI MARKED as required |  |  |
| 14.2.1 | XLPE CABLE 11 KV GRADE |  |  |
| 1 | 50 Sq.mm | meter | 1338.00 |
| 2 | 70 Sq.mm | meter | 1502.00 |
| 3 | 95 Sq.mm. | meter | 1646.00 |
|  |  |  |  |
| 14.2.2 | XLPE CABLE 33 KV GRADE |  |  |
| 1 | 50 Sq.mm | meter | 2000.00 |
| 2 | 70 Sq.mm | meter | 2303.00 |
| 3 | 95 Sq.mm. | meter | 2379.00 |
|  |  |  |  |


| S.No. | Descripition of Item | Unit | rate |
| :---: | :---: | :---: | :---: |
| 14.3 | Providing \& Erecting M-Seal Push - on Kit for 11 kV/33 kV XLPE-Cable with kit content, stress cone, H.L. pad, Top Cap, rain shed, self bounding insulating tape, sliding cone leakage current collector, P.V.C. boot earth continuty connection mould adhesive cum solvent, P.V.C. (N.A.) tape, silicon grease Aluminium lugs, Aluminium Oxide cloth,nylong string, copper binding wire, Adopter etc. duty erected on pole/support \& connected to D.O. fuse unit as required as per accepted standard, as required complete. |  |  |
| 14.3.1 | M-seal push on kit 33 kV XLPE cable |  |  |
| 1 | M-seal push on kit 33 kV XLPE cableO.D. ternmination |  |  |
|  | a. $3 \times 50$ sq.mm | Each | 43079.00 |
|  | b. $3 \times 70 \mathrm{to} 3 \times 120 \mathrm{sq} . \mathrm{mm}$. | Each | 46952.00 |
| 2 | M-seal push on kit 33 kV XLPE cable I.D. ternmination |  |  |
|  | a. $3 \times 50$ sq. mm | Each | 17195.00 |
|  | b. $3 \times 70 \mathrm{to} 3 \times 120$ sq.mm. | Each | 20556.00 |
| 14.3.2 | M-seal push on kit 11 kV XLPE cable |  |  |
| 1 | M-seal push on kit 11 kV XLPE cable O.D. ternmination |  |  |
|  | a. $3 \times 25,3 \times 35$ | Each | 19751.00 |
|  | b. $3 \times 50,3 \times 70$ | Each | 20171.00 |
|  | c. $3 \times 95$ | Each | 20998.00 |
| 2 | M-seal push on kit 11 kV XLPE cable I.D. ternmination |  |  |
|  | a. $3 \times 25,3 \times 35$ | Each | 10973.00 |
|  | b. $3 \times 50,3 \times 70$ | Each | 11464.00 |
|  | c. $3 \times 95$ | Each | 13122.00 |
| 14.4 | Providing \& Making cable end termination with HEAT SHRINKABLE jointing kit complete with all accesories including lugs suitable for $33 \mathrm{kV} / 11 \mathrm{kV} 3$ core XLPE alum. conductor cable as required as per specification andas per accepted standard complete. |  |  |
| 14.4.1 | Heat shrinkable joint,kit 33 kV XLPE |  |  |
| 1 | Heat shr.jointg. kit 33 kV XLPE cable O.D. ternmination |  |  |
|  | a. $3 \times 50$ | Each | 33612.00 |
|  | b. $3 \times 70,95$ | Each | 34605.00 |
|  | c. $3 \times 120,185$ | Each | 54021.00 |
| 2 | Heat shrinkable joint. kit 33 kV XLPE cable I.D. ternmination |  |  |
|  | a. $3 \times 50$ | Each | 23825.00 |
|  | b. $3 \times 70,95$ | Each | 27662.00 |
|  | c. $3 \times 120,185$ | Each | 54021.00 |
| 14.4.2 | Heat shrinkable joint,kit 11 kV XLPE |  |  |
| 1 | Heat shr.jointg. kit 11 kV XLPE cableO.D. ternmination |  |  |
|  | a. $3 \times 25,3 \times 35$ | Each | 26032.00 |
|  | b. $3 \times 50,3 \times 70$ | Each | 31222.00 |
|  | c. $3 \times 95$ | Each | 31222.00 |
| 2 | Heat shrinkable joint. kit 11 kV XLPE cablel.D. ternmination |  |  |
|  | a. $3 \times 25,3 \times 35$ | Each | 14953.00 |
|  | b. $3 \times 50,3 \times 70$ | Each | 19239.00 |
|  | c. $3 \times 95$ | Each | 19239.00 |
| 14.5(A) | End termination |  |  |


| S.No. | Descripition of Item | Unit | rate |
| :---: | :---: | :---: | :---: |
| 14.5.1 | Providing and erecting expoxy resin end termination/joint for low tension P.V.C./XPLE insulated cable of 1100 Volt grade complete with cable jointing compound, Harner, Plastic mould adhesive cum solvent expoxy putty, spacer, tapes etc. as per I.S. specification 8438. 1977 for cable duty erected on existing pole/support/switch gears and connection to supply for all core cable as under. |  |  |
| 14.5.1. | id/od epoxy resin end termination |  |  |
|  | a. 10-50 sqmm 2 / $3 / 3 / 1 / 2$ core | Each | 500.00 |
|  | b. $70-120$ sqmm 2 / $3 / 31 / 2$ / 4core | Each | 669.00 |
|  | c. $150-300$ sqmm2 / $3 / 31 / 2 / 4$ core | Each | 1111.00 |
|  | d. $350-500$ sqmm $31 / 2$ core | Each | 1566.00 |
| 14.5.2 | Supply and making cable end termination with all necessary materials including lugs etc. Heat shr.jointg. kit 1.1 kV XLPE/HD cable O.D. ternmination |  |  |
|  | a. $10-50$ sqmm $2 / 3 / 31 / 2 / 4$ core | Each | 7085.00 |
|  | b. $70-150$ sqmm 2 / 3 / $31 / 2$ / 4core | Each | 8252.00 |
|  | c. $150-300 \mathrm{sqmm} 2 / 3 / 31 / 2 / 4$ core | Each | 9968.00 |
|  | d. $350-500$ sqmm $2 / 3 / 31 / 2 / 4$ core | Each | 12084.00 |
| 14.5.3 | Supply and making cable end termination with all necessary materials including lugs etc. Heat shr.jointg. kit 1.1 kV XLPE/HD cable I.D. ternmination |  |  |
|  | a. 10-50 sqmm $2 / 3 / 31 / 2 / 4$ core | Each | 3731.00 |
|  | b. $70-150$ sqmm 2 / 3 / $31 / 2$ / 4core | Each | 4500.00 |
|  | c. $150-300$ sqmm $2 / 3 / 31 / 2 / 4$ core | Each | 7298.00 |
|  | d. $350-500$ sqmm $2 / 3 / 31 / 2 / 4$ core | Each | 8515.00 |
| 14.5(B) | Cable Jointing |  |  |
| 14.5.1 | Straight through cable jointing kit including compound, hardener, plastic mould with other accessories for the following aluminium conductor PVC insulated and PVC sheathed cable//XLPE of 1.1 kV grade:(I.D./O.D.) |  |  |
|  | a. 6-16 sqmm 2 / $3 / 31 / 2 / 4$ core | Each | 1011.00 |
|  | b. $25-35$ sqmm $2 / 3 / 31 / 2 / 4$ core | Each | 1353.00 |
|  | c. $50-95$ sqmm 2 / $3 / 31 / 2 / 4$ core | Each | 1716.00 |
|  | d. $120-240$ sqmm 2 / $3 / 31 / 2 / 4$ core | Each | 2848.00 |
|  | e. $300-350$ sqmm $2 / 3 / 31 / 2 / 4$ core | Each | 3624.00 |
|  | f. 400-500 sqmm 2 / 3 / $311 / 2$ / 4core | Each | 5240.00 |
| 14.5.2 | Supply and makingHeat shr.jointg. kit 1.1 kV XLPE/HD cable straightthrough jointing.kit complete with all accessories including lugs etc. (I.D../O.D.) |  |  |
|  | a. 6-16 sqmm 2 / 3 / $31 / 2$ / 4core | Each | 2657.00 |
|  | b. $25-35$ sqmm 2 / $3 / 311 / 2 / 4$ core | Each | 3588.00 |
|  | c. $50-95$ sqmm $2 / 3 / 31 / 2 / 4$ core | Each | 4500.00 |
|  | d. 120-240 sqmm $2 / 3 / 31 / 2 / 4$ core | Each | 6835.00 |
|  | e. $300-350$ sqmm $2 / 3 / 31 / 2 / 4$ core | Each | 12934.00 |
|  | f. $400-500$ sqmm 2 / $3 / 31 / 2$ / 4core | Each | 13655.00 |
| 14.6 | BRASS COMPRESSION GLAND |  |  |
| 14.6.1 | Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, Rubber ring complete erected with cable and lead connection etc. as per specification complete. |  |  |
|  | 81 |  |  |


| S.No. | Descripition of Item | Unit | rate |
| :---: | :---: | :---: | :---: |
| 1 | Gland Size 22 mm suitable for cable $2,3,31 / 2 \& 4 \mathrm{x}$ upto 6 Sq.mm | Each | 36.00 |
| 2 | Gland Size 22 mm suitable for cable $2,3,312,4 \times 10$ Sq.mm or $2 x 16$ Sq.mm | Each | 41.00 |
| 3 | Gland size 28 mm for $3,4 \times 16$ Sq.mm | Each | 63.00 |
| 4 | Gland size 32 mm for $2,3,31 / 2,4 \times 25 \mathrm{Sq} . \mathrm{mm}$ OR $2,3,31 / 2 \times 35$ Sq.mm OR $2,3 \times 50$ Sq.mm. | Each | 73.00 |
| 5 | Gland sixe $38 \mathrm{~mm} 3122 \times 70$ Sq.mm, 3x95 Sq.mm | Each | 113.00 |
| 6 | $\begin{gathered} \text { Gland Size } 45 \mathrm{~mm} 3 / 3^{1 ⁄ 2} 2 \times 120 \text { Sq.mm } \\ 31 / 2 \times 95 \text { Sq.mm } \\ 3 \times 150 \text { Sq.mm. } \end{gathered}$ | Each | 142.00 |
| 7 | $\begin{gathered} \text { Gland Size } 50 \mathrm{~mm} 31 / 2 \times 150 \text { Sq.mm } \\ 3 \times 185 \text { Sq.mm } \\ \hline \end{gathered}$ | Each | 181.00 |
| 8 | $\begin{array}{r} \hline \text { Gland Size 57mm } 3 \times 225 \text { Sq.mm } \\ 31 / 2 \times 185 \text { Sq.mm } \\ \hline \end{array}$ | Each | 236.00 |
| 9 | Gland Size $70 \mathrm{~mm} 3 \times 240$ Sq.mm $31 / 2 \times 300$ Sq.mm | Each | 336.00 |
| 10 | Gland Size $82 \mathrm{~mm} 3112 \times 400$ Sq.mm | Each | 477.00 |
| 14.7 | Supplying and fixing ferrules. (Aluminium in Line connector) As per IS - specification suitable for following size of cable with Aluminium stranded/solid conductor evently cramped with high pressure tool including connection as required complete |  |  |
| 14.7.1 | For Conductor Size- |  |  |
| 1 | 2.5 to 6.00 Sq.mm | Each | 2.00 |
| 2 | 10.00 Sq.mm | Each | 2.00 |
| 3 | 16.00 Sq.mm | Each | 3.00 |
| 4 | 25.00 Sq.mm | Each | 4.00 |
| 5 | 35.00 Sq.mm | Each | 4.00 |
| 6 | 50.00 Sq.mm | Each | 8.00 |
| 7 | 70.00 Sq.mm | Each | 13.00 |
| 8 | 95.00 Sq.mm | Each | 15.00 |
| 9 | 120.00 Sq.mm | Each | 21.00 |
| 10 | 150.00 Sq.mm | Each | 29.00 |
| 11 | 185.00 Sq.mm | Each | 36.00 |
| 12 | 240.00 Sq.mm | Each | 59.00 |
| 13 | 300.00 Sq.mm | Each | 85.00 |
| 14 | 400.00 Sq.mm | Each | 124.00 |
| 14.8 | LUGS:- |  |  |
|  | Supplying and fixing cramping type Alum. lugs as per I.S.S. Specification suitable for following size of cable with Alu. /Copper solid/stranded conductor evently cramped with high/pressure tool and connected to switch gear/Bus/M.C.C.B./ M.C.B. etc. as required complete.For Conductor Size- |  |  |
| 1 | 6 mm to 16 Sq.mm | Each | 4.00 |
| 2 | 25 Sq.mm | Each | 7.00 |
| 3 | 35 Sq.mm | Each | 9.00 |
| 4 | 50 Sq.mm | Each | 13.00 |
| 5 | 70 Sq.mm | Each | 21.00 |
| 6 | 95 Sq.mm. | Each | 22.00 |
| 7 | 120 Sq.mm. | Each | 32.00 |
| 8 | 150 Sq.mm. | Each | 41.00 |
| 9 | 180 Sq.mm | Each | 50.00 |
| 10 | 240 Sq.mm. | Each | 88.00 |
| 11 | 300 Sq.mm. | Each | 123.00 |
| 12 | 400 Sq.mm. | Each | 180.00 |


| S.No. | Descripition of Item | Unit | rate |
| :---: | :---: | :---: | :---: |
| 14.9 | Supplying \& fixing pin terminal lugs as per ISS specification suitable for cable evently cramped with high pressure tool \& connection to switch gear terminal. |  |  |
| 1 | Aluminum Lugs Pin Type |  |  |
|  | a. Upto 16 Sq.mm Conductor Size | Each | 4.00 |
|  | b. Upto 25 Sq.mm Conductor Size | Each | 7.00 |
|  | c. 35 Sq.mm Conductor Size | Each | 9.00 |
| 2 | Copper Lugs Pin Type |  |  |
|  | a. Upto 16 Sq.mm Conductor Size | Each | 11.00 |
|  | b. Upto 25 Sq.mm Conductor Size | Each | 25.00 |
|  | c. 35 Sq.mm Conductor Size | Each | 26.00 |
| 3 | Copper Lugs Tube Type |  |  |
|  | a. Upto 16 Sq.mm Conductor Size | Each | 11.00 |
|  | b. Upto 25 Sq.mm Conductor Size | Each | 25.00 |
|  | c. 35 Sq.mm Conductor Size | Each | 26.00 |
|  | d. 50 Sq.mm. Conductor Size | Each | 34.00 |
| 14.10 | CABLE LAYING |  |  |
| 1 | Laying of one number PVC insluated and PVC sheated power cable of 1.1 kV grade of size not exceeding 25 Sq.mm direct in ground including excavation, sand cushioining, protective covering and refilling the pit etc. as required. | meter | 174.00 |
| 2 | Laying of one number PVC insluated power cable of 1.1.kV grade of size exceeding 25Sq.mm but not exceeding 120 Sq.mm direct in ground including excavation, sand cushioing, protective covering and refilling the pit etc. as required. | meter | 180.00 |
| 3 | Laying of one number PVC Insulated and PVC sheathed power cable of 1.1.kV grade of size exceeding 120 Sq mm but not exceeding $400 \mathrm{Sq} . \mathrm{mm}$ direct in ground including excavation and cushioning protective covering and refilling the pit etc. as required. | meter | 190.00 |
| 4 | Laying of one number additional PVC insulated PVC sheathed power cable of 1.1 kV grade of size not exceeding 25Sq.mm direct in ground in the same trench in one tier horizontal formation including excavation sand cushioing protective covering and refilling the pit etc. as required. | meter | 121.00 |
| 5 | Laying of one number additional PVC insulated and PVC sheathed power cable of 1.1 kV grade of size exceeding 25 Sq.mm but not exceeding 120 Sq.mm direct in ground in the same trench in one tier horizotal formation including excavation, send cushioing, protective covering and refilling the pit etc. as required. | meter | 124.00 |
| 6 | Laying of one number additional PVC insulated and PVC sheathed power cable of 1.1 kV grade of size exceeding 120 Sq mm but not exceeding 400 Sq mm direct in ground in the same trench in one tier horizotal formation including excavation, send cushioing, protective covering and refilling the pit etc. as required. | meter | 127.00 |


| S.No. | Descripition of Item | Unit | rate |
| :---: | :---: | :---: | :---: |
| 7 | Laying of one number PVC insulated and PVC sheathed power cable of $1: 1 \mathrm{kV}$ grade of size not exceeding 25 Sq.mm in the existing RCC Hume/Stone/Ware/G.I. pipe as required. | meter | 16.00 |
| 8 | Laying of one number PVC insulated and PVC sheathed power cable of 1.1 kV grade of size exceeding 25 Sq.mm but not exceeding 400 Sq mm in the existing RCC/Hume Stoneware/G.I. Pipe as required. | meter | 22.00 |
| 9 | Laying of one number PVC insulated and PVC sheathed power cable of 1.1 kV grade of size not exceeding 25 Sq.mm in th existing masonary open duct as required. | meter | 13.00 |
| 10 | Laying of one number PVC insulated and PVC sheathed power cable of 1.1 kV grade of size exceeding $25 \mathrm{Sq} . \mathrm{mm}$ but not exceeding $400 \mathrm{Sq} . \mathrm{mm}$ in the existing masonary open duct as required. | meter | 99.00 |
| 11 | Laying of one number PILC/PVC insulated and PVC sheathed power cable of grade exceeding 1.1 kV but not exceeding 11 kV of size not exceeding 120 Sq.mm direct in ground including excavation sand cushioning, protective covering and refilling the trench etc. as required. | meter | 73.00 |
| 12 | Laying of one number PILC/PVC insulated and PVC sheathed power cable of grade exceeding 11 kV of size exceeding 120 Sq.mm but not exceeding 400 Sq.mm direct in ground including excavation sand cushioning, protective covering and refilling the trench etc. as required | meter | 70.00 |
| 13 | Laying of one number additional PILC/PVC insulated and PVC sheathed power cable of grade exceeding 1.1 kV but not exceeding 11 kV of size not exceeding 120 Sq.mm direct in ground in the same trench in one tier horizontal formation including excavation, sand cusioning, protective covering and refilling the trench as required. | meter | 148.00 |
| 14 | Laying of one number additional PILC/PVC insulated and PVC sheathed power cable of grade exceeding 1.1 kV but not exceeding 11 kV of size exceeding $120 \mathrm{Sq} . \mathrm{mm}$ but not exceeding 400 Sq.mm. direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc. as requied. | meter | 220.00 |
| 15 | Laying of one number PILC/PVC insulated and PVC sheathed power cable of grade exceeding 1.1 kV but not exceeding 11 kV of size not exceeding 400 Sq.mm in the existing RCC / Hume / Stoneware / G.I. Pipe as required. | meter | 32.00 |
| 16 | Laying of one number PILC/PVC insulated and PVC sheathed power cable of grade exceeding 1.1 kV but not exceeding 11 kV of size not exceeding $400 \mathrm{Sq} . \mathrm{mm}$. in the existing masonary open duct as requied. | meter | 25.00 |


| S.No. | Descripition of Item | Unit | rate |
| :---: | :---: | :---: | :---: |
| 17 | Laying and fixing of one number PVC insulated and PVC sheathed aluminium conductor cable of 1.1 kV grade of size not exceeding $25 \mathrm{Sq} . \mathrm{mm}$ on surface etc. as required. | meter | 29.00 |
| 18 | Laying and fixing of one number PVC insulated and PVC sheathed aluminium conductor cable of 1.1 kV grade of size exceeding 25 Sq.mm but not exceeding 120 Sq.mm on surface etc. as required. | meter | 70.00 |
| 19 | Laying and fixing of one number PVC insulated and PVC sheathed aluminium conductor cable of 1.1 kV grade of size exceeding 120 Sq.mm but not exceeding 300 Sq.mm on surface etc. as required. | meter | 72.00 |
| 14.11 | Excavation of the trenches in Hard Rock not exceeding 1.5 meter in width and lift upto 1.5 meter including getting out the excavated soil and disposal of surplus excavated soil as directed within the lead of 50 meter (without blasting) | Cu. Mtr. | 342.00 |
| 14.12 | Laying of underground cable armoured./ unarmoured as per specification in air with approved type of iron clamps complete. |  |  |
| 1 | 2 / 3 / 4 Core cable upto 16 Sq.mm | meter | 16.00 |
| 2 | $3 / 3112 / 4$ Core cable 25 Sq.mm to 120 Sq.mm | meter | 22.00 |
| 3 | $3 / 31 / 2 / 4$ Core cable 150 Sq.mm and above | meter | 28.00 |
| 14.13 | Laying of cement concrete or approved type of cable cover/flag stone over L.T. cover trench as per specification. | meter | 20.00 |
| 14.14 | Supplying of approved type precast R.C.C. cable cover class EHV/HVP at site inclusive of transport required. |  |  |
| 1 | Cable cover class EHV-type-I with peak size $450 \times 230 \times$ 50 mm . | Each | 56.00 |
| 2 | Cable cover class EHV-type-I with peak size $600 \times 230 \times$ 50 mm . | Each | 76.00 |
| 3 | Cable cover class HVP-type-I with peak size $300 \times 180 \times$ 40 mm . | Each | 29.00 |
| 4 | Cable cover class HVP-type-II with peak size $450 \times 180 \times$ 40 mm . | Each | 43.00 |
| 5 | Coble cover class HV-type-I flat size $300 \times 180 \times 40 \mathrm{~mm}$ | Each | 27.00 |
| 6 | Cable cover class HV-type-II flat size $450 \times 180 \times 40 \mathrm{~mm}$ | Each | 42.00 |
| 7 | Cable cover class LV-type-I flat size $250 \times 150 \times 40 \mathrm{~mm}$ | Each | 19.00 |
| 8 | Cable cover class LV-type-II flat size $300 \times 180 \times 40 \mathrm{~mm}$ | Each | 27.00 |
| 9 | Cable cover class LV-type-III flat size $450 \times 180 \times 40 \mathrm{~mm}$ | Each | 43.00 |
| 14.15 | Fixing Route Marker with cement concrete 1:2:4 (1cement and 2 coarse sand :4graded stone aggregate 20 mm nominal size) of size $60 \mathrm{~cm} \times 60 \mathrm{~cm}$ at the bottom and $50 \mathrm{~cm} \times 50 \mathrm{~cm}$ at the top with a thickness of 10 cm including inspection duly engraved as required. | Each | 133.00 |
| 14.16 | Supplying Route Marker with $10 \mathrm{~cm} \times 10 \mathrm{~cm}$ G.I. Plate 5 mm . Thick with Inspection thereon bolted/welded to 35 mm x $35 \mathrm{~mm} \times \mathrm{mm}$ angle iron 60 cm long and fixing the same in ground as required. | Each | 175.00 |


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| :---: | :---: | :---: | :---: |
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|  | CHAPTER -15 |  |  |
|  | TRANSFORMERS \& FIRE EXTINGUISHER |  |  |
|  |  |  |  |
| S.No. | Descripition of Item | Unit | Rate |
| 15 | Supplying, installing, testing and commissioning of 11/0.4 K.V. 3 Phase 50 Cycle oil immersed, naturally cooled, out door type transformer connected delta on H.T. side and star on L.T. side hand operated off load, Tap changer switch,above 100 kVA rating and diagram plate, two earthing terminal, lifting lugs, oil level guage, drain valve with plug, temperature not exceeding $50^{\circ} \mathrm{C}$ on load, oil conservator with drain plug, oil filling hole with plug dehydrating silica gel breather, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all Required materials arrangements as required as per IS specification. |  |  |
| 15.1 | Aluminium wound |  |  |
| 1 | 25 kVA | Each | 67230.00 |
| 2 | 63 kVA | Each | 93642.00 |
| 3 | 100 kVA | Each | 115252.00 |
| 4 | 200 kVA | Each | 198089.00 |
| 15.2 | Copper wound |  |  |
| 1 | 200 kVA | Each | 300135.00 |
| 2 | 315 kVA | Each | 444200.00 |
| 3 | 500 kVA | Each | 480216.00 |
| 15.3 | Supplying installing and testing ofAB isolating switch assembly set gang operated suitable for 11/0.4 KV, DP structure with brass part contacts, operating rod with required GI pipe, handle locking arrangement on On-Off position conforming to IS complete with required material and installing on existing structure to complete the job as required as per specification. |  |  |
| 1 | 11 kV | set | 6551.00 |
| 2 | 33kV | set | 14235.00 |
| 15.4 | Supplying, installing ,testing of 11 KV D.O. fuse assembly with brass part contact for 11/0.4 KV DP Structure set of 3 with fuse with barrel with required fuse element \& other materials as per specification on existing D.P. structure as required.(set of 3nos.) |  |  |
| 1 | 11kV | set | 4336.00 |
| 2 | 33 kV | set | 10568.00 |
| 15.5 | Supplying \& fixing of Fire Extinguisher/Refills as per IS specification |  |  |
| 1 | Dry chemical powder (DCP) type- 5kg duly refiled and ready to use | each | 2446.00 |
| 2 | ABC type duly refield and ready to used | each | 4747.00 |
| 3 | Co2 type dully refiled and ready to used | each | 7425.00 |
| 4 | Dry chemical powder (DCP) type-5kg refile only | each | 458.00 |
| 5 | ABC type refill only | each | 858.00 |
| 6 | Co2 type Refill only | each | 572.00 |
| 7 | 4 bucket set with stand and sand dully painted red | each | 1954.00 |


| 2 | 63 kVA | Each | 93642.00 |
| :---: | :---: | :---: | :---: |
| 15.6 | Supplying, installing, testing and commissioning of 11/root3/ KV 250V (Aluminium) core wound type distribution transformers : |  |  |
|  | (i) 10 KVA | Each | 36016.00 |
|  | (ii) 16 KVA | Each | 40818.00 |
|  | (iii) 25 KVA | Each | 48022.00 |
| 15.7 | Supplying, installing, testing and commissioning of LT Distribution Box with TPN isolator 200 amper on incoming,bus bar and 66 S.P.M.C.C.B.of $60 \mathrm{~A}^{\prime \prime}$. on outgoing side for 63 KVA transformer |  |  |
|  | (i)Supplying, installing, testing and commissioning of LT Distribution Box with TPN isolator 200 amper on incoming, bus bar and 66 S.P.M.C.C.B.of 60 A " .on outgoing side for 63 KVA transformer | Each | 14527.00 |
|  | (i)Supplying, installing, testing and commissioning of LT Distribution Box with TPN isolator 200 amper on incoming, bus bar and 6 S.P.M.C.C.B.of 90 A" .on outgoing side for 100 KVA transformer | Each | 15847.00 |
|  | (i)Supplying, installing, testing and commissioning of LT Distribution Box with TPN isolator of 600 amper on incoming,bus bar and 6 S.P.M.C.C.B.of 120 A" .on outgoing side for 200 KVA transformer | Each | 26412.00 |
| 15.8 | Supplying, installing, or stay wires |  |  |
|  | (i) $7 / 4.00 \mathrm{~mm}$ (7/8 SWG) | KG | 71.00 |
|  | (ii) M.S. Nuts and Bolts | KG | 51.00 |
| 15.9 | Supplying, installing, testing 1100 Volts Grade Aluminium conductor XLPE, LT Cable Single core Armored |  |  |
|  | (i) 25 Sq.mm. | Kms | 27612.00 |
|  | (ii) 50 Sq.mm. | Kms | 40818.00 |
|  | (iii) 120 Sq.mm. | Kms | 101446.00 |
|  | (iv) 185 Sq.mm. | Kms | 150068.00 |
| 15.10 | Supplying, installing, testing and commissioning of $11 \mathrm{KV} \mathrm{C.Ts}$. (Outdoor oil filled type) : with accuracy class 0.5 |  |  |
|  | (i) 200-100/5 Amp | Each | 9604.00 |
|  | (ii) $300-150 / 5 \mathrm{Amps}$ | Each | 9604.00 |
|  | (iii) 500-250/5 Amps | Each | 11045.00 |
| 15.11 | Supplying, installing, testing and commissioning of $33 \mathrm{KV} \mathrm{C.Ts}$. (Outdoor oil filled type) : with accuracy class 0.5 |  |  |
|  | (i) 200-100/5 Amp | Each | 13926.00 |
|  | (ii) 300-150/5 Amps | Each | 13926.00 |
|  | (iii) 500-250/5 Amps | Each | 17408.00 |
| 15.12 | Supplying, installing, testing and commissioning of Lightning Arrestors |  |  |
|  | (i) 11 KV Gapless, line type | Each | 495.00 |
|  | (ii) 33 KV Gapless line type | Each | 5282.00 |
|  | (iii) 33 KV Gapless StationType | Each | 11705.00 |
| 15.13 | Supplying, installing, testing of earth Coil (coil of 115 turns of 50 mm dia, and 2.5 Mtrs. Lead of 4 mm G.I wire. | Each | 195.00 |

# Technical Specification of the High Mast Unit of 9 Mtrs. To 30 Mts. Length 

## MAST:-

Mast should be made of the hot dipped galvanized MS material, and shall be of one of approved
The types of the plates sheets used for the mast should be specified along with their sizes/gauges and also the national (IS) or international specifications to which these conform.
The design of the Mast for bearing the wind pressure should be as per the requirements of the Indian and International Standards for SAFETY. It shall be the sole responsibility of the company supplying and installing the high mast unit to study record and assess the wind pressure in the location proposed for high mast installation and to supply and install the high mast unit accordingly so that it is a totally safe and hazard-free installation. This shall be based on the HIGHEST wind pressure recoded in LAST 25 YEARS IN THE REGION where the High Mast Unit is to be installed.

The number of pieces that will constitute this mast and the overall length of the Mast above the ground level should be clearly specified. The overlapping MUST be as per the I.S Standards/International Standard.

The welding and bolting or breaking due to wind pressure and / or due to its own weight and / or due to the weights of flood lights, control gear boxes, lamps or due to improper design. The relevant or International standards to which this conforms should be specified.

## FOUNDATION:-

The foundation of the complete High Mast Unit shall be RCC Foundation suitable for the soil where the High Mast Unit is proposed to be installed complete with the required foundation bolts.

The soils at that proposed location should be tested by the bidding company, at its own cost and the design of the proposed foundation with its foundation bolts should be prepared and certified by a registered structural engineer/ consultant having at least 15 years experience and should be got approved from the Civil Department of desired local Engineering College before the execution of the foundation.

The curing of the foundation must be done very thoroughly as per standard practice. The cured foundation should be got certified by a licensed structural engineer/consultant having at least 15 years experience.

These certificates should be given in original to the Engineer-in charge.

## WIRE ROPES:-

Non corrodible, ISI mark, stainless steel wire ropes of AISI 316 grade should only provided to raise and lower the lantern carriage and should be of flexible type as is recommended for use in such Masts and it should be of such a size that the factor of safety is $500 \%$. These stainless steel wire ropes shall be ISI marked and the test certificate or rope should be supplied after installation of the unit but before commissioning it. These wire ropes should have no joints.

## WINCH ASSEMBLY:-

A suitable winch assembly should be provided having required winch drums so that raising, lowering and leveling of lantern carriage is possible and that no inter winding of the wire ropes takes place. This should be self lubricating type by means of oil-bath having recommended lubricant.

The driver spindle must be able to be positively locked, when not in use, by automatic means.
The winch assembly should be capable of operation by hand and also by means of a power device.

## ELECTRIC DRIVE OR POWER TOOL:-

If power tool or electric drive is specified in the schedule of items then heavy duty ISI marked electric motor should be provided as the electric drive. The specifications of this motor must be mentioned is the offer.

## LANTERN CARRIAGE:-

A suitable and a totally safe and hot dipped galvanized lantern carriage with $300 \%$ factor of safety, should be provided having provision for installation of flood light fittings and their CG boxes and the required balancing weights etc.

## OUTDOOR TYPE ELECTRICAL CONTROL PANEL:-

The necessary outdoor type electrical control panel provided with a suitable circuit breaker, earth fault protection, inters connections and double earthing arrangement should be provided. This should have a facility to lock. This shall be as per enclosed technical specification for external electrification.

## AVIATION OBSTRUCTION LIGHT:-

One number twin dome type Aviation obstruction light with 100 W GLS lamp is to be supplied and commissioned with all required cable at the top of the High Mast Unit to meet the statutory requirements of Department of Civil Aviation.

## EARTHING \& LIGHTING PROTECTION:-

Two numbers, $300 \mathrm{~mm} \times 300 \mathrm{~mm} \times 6 \mathrm{~mm}$ GI plate earthing with 2 Mt . long 19 mm dia " B " class Gl pipe wood coal, salt lumps etc, as per IS: 3043 should be provided and $25 \mathrm{~mm} \times 3 \mathrm{~mm}$ GI strips should be laid at least 600 mm below ground and should be firmly connected to the two earth terminals of the Mast. Lightening Final should be solidly fixed to the centre of the head frame and should be earthed as per relevant IS by a separate earthing other than those mentioned above.

## TEST CERTIFICATS:-

The certificates of the Mast, winch drive, stainless steel wire ropes etc. duly signed by the competent Authority of the Company should be submitted to the Engineer-in-Charge after installation of the Unit but before commissioning it.

## APPROVAL FROM ELECTRICAL INSPETORATE:-

The complete installations should be got approved form the Competent Authority of the Electrical Inspectorate and it should be submitted to the Engineer -in-charge before commissioning of the High

## LITERATURE:-

Your literature giving the details of High Mast Unit and lanterns should be submitted with the offer.

## TECHNICAL SPECIFICATION SHEETS:-

These technical specification sheets should be duly signed by the authorized signatory of the manufacturing company on every page and these should also be enclosed with the offer.

## ERECTION OF THE HIGH MAST UINT:-

The use of proper erection devices and equipments should be made all persons involved with erection \& commissioning must be insured and no persons unauthorized should be allowed by the erecting company to be present in 50 mts . Radius form the foundation till the erection is completed.

Any accident caused because of falling, breaking, crippling or bending of the High Mast at any point of time shall be the total responsibility of the company which is supplying and erecting the High Mast Unit.

## GUARANTEE:-

The complete High Mast Unit should be guaranteed for two years from the date of commissioning.

## APPLICABLE STANDARDS:

The following will be applicable:
a) IS 875 (Part 3) - 1987 Code of practice for Design Loads (other than Earth-quakes) for

Buildings and structures.
b) BE EN 10025/DIN 17100: Grades of M. S.Plates.
c) BS ISO 1461 Galvanizing
d) BS 5135/AWS Welding
e) TR No. 71996 of ILE, UK: Specification for Mast and foundation.

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| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  | Chapter - 16 |  |  |
|  | High Mast |  |  |
|  |  |  |  |
| S.No. | Description of Item | Unit | Rate |
| 16.1 | Providing and erecting 12.5 mt High Mast Lighting sytem with 6 No. $2 \times 400 \mathrm{w}$ flood light fixture flood light fitting 250 Watt each complete with control gear and lamps with integral Power tool, weight 340 kg . comprising of 1 section of hot dipped galvanized materials as per BSEN ISO 1461 thickness 3 mm , dia 100mm \& 360mm for top and bottom respectively, stress fitting arrangement on site with 350 mm overlap dynamic loading to withstand max wind pressure as per -IS 875 part III, parameters for structural \& foundation design must be taken from Wind Tunnel test. Lightning protection of Gl single spike 800 mm at top and at base inside compartment with double internal lock with adequate size of MCB erected on PVC board complete with base plate of 25 mm thick 520 mm dia. and foundation bolts having 4 nos. bolts of 24 mm dia (6.8E grade) Anchor plate 445 PCD, including accessories viz.(1) Lantern carriage of 50 NB ERW class-B,PI pipe covered with PVC sleeve suitable to carry 250 kg . load and upto 6 fittings symmetrically.(2) Trailing Copper cable $5 \times 2.5$ sq.mm, EPR insulated PCP Sheatehed (3) Double Drum Winch having gear 53:1, oil bath | each | 313431.00 |
|  | (SAE90/140) arrangement (4)2 nos. Stainless steel wire ropes 5 mm dia (7/19) breaking load capacity $1600 \mathrm{~kg} . x 2$,(5) Integral power tool 3 -phase, 1HP $2 \mathrm{~m} / \mathrm{min}$ single speed. (6) Feeder pillar fabricated out of 14 SWG CRCA sheet and comprise of incoming 32 A TPN switch, HRC fuses, single dial timer, suitable size of contactors for lighting and power tool, 2 nos. outgoing, reversing switch for motor. |  |  |
| 16.2 | Providing and erecting 16mt High Mast Lighting sytem with8 No. $2 \times 400 \mathrm{w}$ flood light fitting 400 Watt each complete with control gear and lamps with integral Power tool, weight 550 kg . comprising of 2 sections of hot dipped galvanized materials as per BSEN ISO 1461 thickness $3 \mathrm{~mm} \& 4 \mathrm{~mm}$, dia 150 mm \& 460mm for top and bottom respectively, stress fitting arrangement on site with 500 mm overlap dynamic loading towithstand max wind pressure as per -IS 875 part III, parameters for structural \& foundation design must be taken from Wind Tunnel test. Lightning protection of GI single spike 1200 mm at top and at base inside compartment with double internal lock with adequate size of MCB erected on PVC board complete with base plate of 25 mm thick 670 mm dia. and foundation bolts having 8 nos. bolts of 30 mm dia 850 mm long (E 6.8 grade) Anchor plate 590 PCD,670X670x8mm including accessories viz.(1) Lantern carriage of 50 NB ERW class-B ,PI pipe covered with PVC sleeve suitable to carry 500 kg . load and upto 8 fittings symmetrically.(2) Trailing Copper cable $5 \times 2.5$ sq.mm, EPR insulated PCP Sheatehed (3) Double Drum | each | 394821.00 |


| S.No. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
|  | Winch having gear 53:1, oil bath (SAE90/140) arrangement (4)2 nos. Stainless steel wire ropes 6 mm dia (7/19) breaking load capacity $2400 \mathrm{~kg} . \times 2$,(5) Integral power tool 3 -phase, 1HP $2 \mathrm{~m} / \mathrm{min}$ single speed .torque limiter upto 500 kg adjustable (6)Twin door aviation light of type of BJAOL 2 with two numbers 100W lamps (7) Feeder pillar fabricated out of 14 SWG CRCA sheet and comprise of incoming 32 A TPN switch, HRC fuses, single dial timer, suitable size of contactors for lighting and power tool, 2 nos.outgoing, reversing switch for motor. |  |  |
| 16.3 | Providing and erecting 9 mtrs. High hot dipped galvanized octagonal poles with bottomof $200 \mathrm{~mm} A / F$, top 100 mm , A/F made from 3 mm thick HT plate \& $290 \times 290 \times 16 \mathrm{~mm}$ base plate with 1500 mm long decorative sword type double arm bracket complete ererted in an approved manner on provided foundation. Suitable size \& type of foundation bolts. 4 nos. bolts type M20x750mm 'J' type foundation bolts (EN8 grade) | each | 32898.00 |
| 16.4 | Providing and erecting 9mtrs. High hot galvanized octagonal poles with bottom of 155 mm A/F, top 70 mm A/F made from 3 mm thick HT plate \& $260 \times 260 \times 16 \mathrm{~mm}$ base plate with 1500 mm long decorative sword type double arm bracket complte erected in an approved manner on provided foundation. Suitable size \& type of foundation bolts. 4 nos. bolts type M20x750mm 'J' type foundation bolts (EN8 grade) | each | 24071.00 |
| 16.5 | Designing \& casting of Open raft shallow footing foundation with M-20 cement concrete suitable for 12.5 mtrs . High Mast considering the safe soil bearing cacapcity at site as $10 \mathrm{~T} / \mathrm{sqm}$ at 2 mtrs . Depth including excavation, foundation nut bolts in an approved manner. | each | 38500.00 |
| 16.6 | Designing \& casting of Open raft shallow footing foundation with M-20 cement concrete suitable for 16 mtrs . High Mast considering the safe soil bearing capacity at site as $10 \mathrm{~T} / \mathrm{sqm}$ at 2 mtrs . Depth including excavation, foundation nut bolts in an approved manner. | each | 52000.00 |
| 16.7 | Designing \& casting with M-20 cement concrete foundation suitable for 9 mtrs. Octagonal poles considering the safe soil bearing capacity at site as $10 \mathrm{~T} / \mathrm{sqm}$ at 2 mtrs. Depth including excavation, foundation nut bolts in an approved manner. | each | 13500.00 |
|  |  |  |  |


| S.No. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 16.8 | Providing and erecting 12.5 mt high mast lighthing system with 6 nos metal halide flood light fittings of 250 watt each complete with control gear and lamps with integral power tool, weight 340 kg having two section ho hot dip galvanizied material as per BSEN ISO 1461 thick of 3 mm dia 100 top and 360 bottom respectively. the mast shall be stress fitted at site with 250 mm over dynamic loading to without maximum wind pressure as per IS 875 part III and parmeters of structures and foundation desingn should be taken form wind tunnel test. the mast shall have lighting protection of GI single spike of designated length at top. the base inside compartment with double internal locak with adequate size of MCB mounted on PVC board complete with base palte of 25 mm thick 520 mm diameter and foundation bots having 4 nos bots of 24 mm daimeter (TS 600) anchor plate 445 PCD including accessories Viz | each | 275000.00 |
|  | (1) Lnatern carriage of 50 OD ERW calss B pipe covered with PVC sleevs suitable to carry 250 KG load and upto 6 fitting symmmetricaly (2) Traliling copper cable of $5 \times 2.5$ samm PVC insulated PVC shetehed (3) Double drum winch having gear ration 5:3:1 oil bath (SAE/90/140) arrangement to be Type tested from NIT or IIT for (4) 2 nos stainless wire ropes 6 mm diameter(7/19) oreaing load capacity $1450 \mathrm{~kg} \times 2$ (5) integral power tool 3 phase 0.75 HP 2 $\mathrm{m} / \mathrm{min}$ single speed (6) Feeder pillar out of 14 SWG CRCA sheet and comparaise of incoming 32 A TPN MCB single dial timer, sutiable size of contractotrs for lighting and power tool, 2 nos. outgoing and reversing switch of motor. |  |  |
| 16.9 | Providing and erecting 16 mt high mast lighthing system with 6 nos metal halide flood light fittings of $2 \times 400$ watt each complete with control gear and lamps with integral power tool, weight 550 kg having two section hot dip galvanizied material as per BSEN ISO 1461 thick of $3 \mathrm{~mm} \& 4 \mathrm{~mm}$ dia 150 top and 410 bottom respectively. The mast shall be stress fitted at site with 500 mm over dynamic loading to without maximum wind pressure as per IS 875 part III and parmeters of structures and foundation desingn should be taken form wind tunnel test. The mast shall have lighting protection of GI single spike of designated length at top. The base inside compartment with double internal lock with adequate size of MCB mounted on PVC board complete with base palte of 25 mm thick 570 mm diameter and foundation bots having 8 nos bots of $30 \mathrm{~mm} / 850 \mathrm{MM}$ daimeter (TS 600) anchor plate 445 PCD including accessories Viz | each | 375000 |
|  | (1) Lnatern carriage of 50 OD ERW calss B pipe covered with PVC sleevs suitable to carry 750 KG load and upto 8 fitting symmmetricaly (2) Traliling copper cable of $5 \times 2.5$ samm PVC insulated PVC shetehed (3) Double drum winch having gear ration 531 oil bath (SAE/90/140) arrangement to be Type tested from NIT or IIT for (4) 2 nos stainless wire ropes 6 mm diameter(7/19) oreaing load capacity $2400 \mathrm{~kg} \times 2$ (5) integral power tool 3 phase $1 \mathrm{HP} 2 \mathrm{~m} / \mathrm{min}$ single speed Tourque $750 \mathrm{Kg}(6)$ Feeder pillar out of 14 SWG CRCA sheet and comparaise of incoming 32 A TPN MCB single dial timer, sutiable size of contractotrs for lighting and power tool, 2 nos. outgoing and reversing switch of motor. Twin avation light 2 no.s 100 watt lamp |  |  |


| S.No. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 16.10 | Providing and erecting 20 mt high mast lighthing system with 6 nos metal halide flood light fittings of $2 \times 400$ watt each complete with control gear and lamps with integral power tool, weight 680 kg having two section hot dip galvanizied material as per BSEN ISO 1461 thick of $3 \mathrm{~mm} \& 4 \mathrm{~mm}$ dia 150 top and 460 bottom respectively. The mast shall be stress fitted at site as per IS overlap dyanamic loading to with standard maximum wind pressure as per IS 875 part III and parmeters of structures and foundation desingn should be taken form wind tunnel test. The mast shall have lighting protection of GI single spike of designated length at top. The base inside compartment with double internal lock with adequate size of MCB mounted on PVC board complete with base palte of 25 mm thick 570 mm diameter and foundation bots having 8 nos bots of $30 \mathrm{~mm} / 850$ MM daimeter (TS 600) anchor plate 590 PCD including accessories Viz | each | 415000 |
|  | (1) Lnatern carriage of 50 NB ERW calss B pipe covered with PVC sleevs suitable to carry 750 KG load and upto 12 fitting symmmetricaly (2) Traliling copper cable of $5 \times 4$ sqmm EPR insulaed PVC shetehed (3) Double drum winch having gear ration 531 oil bath (SAE/90/140) arrangement to be Type tested from NIT or IIT for (4) 2 nos stainless wire ropes 6 mm diameter(7/19) oreaing load capacity $2400 \mathrm{~kg} \mathrm{x} 2(5)$ integral power tool 3 phase $1 \mathrm{HP} 2 \mathrm{~m} / \mathrm{min}$ single speed Tourque limited 500 Kg (6) Feeder pillar out of 14 SWG CRCA sheet and comparaise of incoming 63 A TPN MCB single dial timer, sutiable size of contractotrs for lighting and power tool, 2 nos. outgoing and reversing switch of motor.Twin doam avation light 2 no.s 100 watt lamp. |  |  |
| 16.11 | Providing and erecting 25 mt high mast lighthing system with 12 nos metal halide flood light fittings of $2 \times 400$ watt each complete with control gear and lamps with integral power tool, weight 1000 kg having 3 section hot dip galvanizied material as per BSEN ISO 1461 thick of $3 \mathrm{~mm} \& 4 \mathrm{~mm}$ dia / 5 mm 150 top and 460 bottom respectively. The mast shall be stress fitted at site as per IS overlap dyanamic loading to with standard maximum wind pressure as per IS 875 part III and parmeters of structures and foundation desingn should be taken form wind tunnel test. The mast shall have lighting protection of GI single spike of 1200 mm length at top. The base inside compartment with double internal lock with adequate size of MCB mounted on PVC board complete with base palte of 30 mm thick 670 mm diameter and foundation bots having 8 nos bots of $30 \mathrm{~mm} / 850$ MM daimeter (TS 600) anchor plate 590 PCD including accessories Viz | each | 4750000.00 |
|  | (1) Lnatern carriage of 50 NB ERW calss B pipe covered with PVC sleevs suitable to carry 750 KG load and upto 16 fitting symmmetricaly (2) Traliling copper cable of $8 \times 2.5$ sqmm EPR insulaed PVC shetehed (3) Double drum winch having gear ration 531 oil bath (SAE/90/140) arrangement to be Type tested from NIT or IIT for (4) 2 nos stainless wire ropes 6 mm diameter $(7 / 19)$ oreaing load capacity $2400 \mathrm{~kg} \times 2$ (5) integral power tool 3 phase $1.5 \mathrm{HP} 2 \mathrm{~m} / \mathrm{min}$ single speed Tourque limited 750 Kg (6) Feeder pillar out of 14 SWG CRCA sheet and comparaise of incoming 63 A TPN MCB single dial timer, sutiable size of contractotrs for lighting and power tool, 2 nos. outgoing and reversing switch of motor. Twin doam avation light 2 no.s 100 watt lamp. |  |  |


| S.No. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 16.12 | Providing and erecting 30 mt high mast lighthing system with 16 nos metal halide flood light fittings of $2 \times 400$ watt each complete with control gear and lamps with integral power tool, weight 1650 kg having 3 section hot dip galvanizied material as per BSEN ISO 1461 thick of $4 \mathrm{~mm} \& 4 \mathrm{~mm}$ dia / 6 mm 150 top and 610 bottom respectively. The mast shall be stress fitted at site as per IS overlap dyanamic loading to with standard maximum wind pressure as per IS 875 part III and parmeters of structures and foundation desingn should be taken form wind tunnel test. The mast shall have lighting protection of GI single spike of 1200 mm length at top. The base inside compartment with double internal lock with adequate size of MCB mounted on PVC board complete with base palte of 30 mm thick 840 mm diameter and foundation bots having 12 nos bots of 30 $\mathrm{mm} / 850 \mathrm{MM}$ daimeter (TS 600) anchor plate 740 PCD including accessories Viz | each | 550000.00 |
|  | (1) Lnatern carriage of 50 NB ERW calss B pipe covered with PVC sleevs suitable to carry 1000 KG load and upto 20 fitting symmmetricaly (2) Traliling copper cable of $8 \times 4$ sqmm EPR insulaed PVC shetehed (3) Double drum winch having gear ration 531 oil bath (SAE/90/140) arrangement to be Type tested from NIT or IIT for (4) 2 nos stainless wire ropes 6 mm diameter(7/19) oreaing load capacity $3450 \mathrm{~kg} \mathrm{x} 2(5)$ integral power tool 3 phase $2 \mathrm{HP} 2 \mathrm{~m} / \mathrm{min}$ single speed Tourque limited 1000 Kg (6) Feeder pillar out of 14 SWG CRCA sheet and comparaise of incoming 63 A TPN MCB single dial timer, sutiable size of contractotrs for lighting and power tool, 2 nos. outgoing and reversing switch of motor. Twin doam avation light 2 no.s 100 watt lamp. |  |  |
| 16.13 | Supply of non integral flood fittings of $2 \times 400$ watt MH asymmercial 6 folld light type BGENF 22 (without lamp) | eahc | 16150.00 |
| 16.14 | Supply of non integral flood fittings of $1 \times 400$ watt MH asymmercial 7 folld light type BGENF 21 S (without lamp) | each | 9000.00 |


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| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  | Chapter-17 |  |  |
|  | G.I. Pipes and Pump Sets |  |  |
|  |  |  |  |
| S.No. | Description of Item | Unit | Rate |
| 17 | Suppying \& installing G.I. Pipe for protection of underground cable fixed on wall/support/in trench/fixed between two rigid existing support of wall/beam for erection of ceiling Fan/down rod for stiff pendent for light luminaries /fan/protective for earthing, lightening conductor down strip/everhead service line/for submer cable or centrifugal pump for water supply with necessary iron clamp coupler, bend, te, elbow, nuts and bolts etc. complete in an approved manner as required to complete the job excluding cost of excavation/dismateling \& other finished masonary Item complete. |  |  |
| 17.1 | For 'B' Class G.I.pipe ISI Marked (IS-1161-68) |  |  |
| 1 | 15 mm | meter | 101.00 |
| 2 | 20.00 mm | meter | 128.00 |
| 3 | 25.00 mm | meter | 177.00 |
| 4 | 32.00 mm | meter | 232.00 |
| 5 | 40.00 mm | meter | 284.00 |
| 6 | 50.00 mm | meter | 369.00 |
| 7 | 65.00 mm | meter | 484.00 |
| 8 | 80.00 mm | meter | 602.00 |
| 9 | 100.00 mm | meter | 869.00 |
| 10 | 125.00 mm | meter | 1120.00 |
| 11 | 150.00 mm | meter | 1318.00 |
|  |  |  |  |
| 17.2 | A' Class G.I.Pipe ISI Marked (IS-1161-69) |  |  |
| 1 | 32.00 mm | meter | 204.00 |
| 2 | 40.00 mm | meter | 242.00 |
| 3 | 50.00 mm | meter | 311.00 |
| 4 | 65.00 mm | meter | 392.00 |
| 5 | 80.00 mm | meter | 521.00 |
| 6 | 100.00 mm | meter | 733.00 |
| 17.3 | Supply and laying rigid PVC single socket end, non-metallic pipe ISI Marked (IS-4985-2000)class 5 for protection of under ground cable/or for water pump delivery side, for water supply complete with necessary clamp coupler, band, Tee, Elbow etc. in an approved manner excluding cost of excavation etc. |  |  |
| 1 | 50.00 mm O.D | meter | 102.00 |
| 2 | 75.00 mm O.D | meter | 221.00 |
| 3 | 110.00 mm O.D | meter | 466.00 |
| 17.4 | Supplying and installing Double wall corrugated pipes (DWC) of HDPE ( IS 14930 Part II -marked ) for cable laid under ground with necessary connecting sockets/ couplings,tees of same material and at required depth upto 90 cm . below road $/ \mathrm{ground}$ surface,including excavation, back filling with excavated material with ramming and making the surface good. |  |  |
| 1 | 50.00 mm outside dia. | meter | 197.00 |
| 2 | 63.00 mm outside dia. | meter | 210.00 |


| S.No. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 3 | 77.00 mm outside dia. | meter | 222.00 |
| 4 | 90.00 mm outside dia. | meter | 254.00 |
| 5 | 110.00 mm outside dia. | meter | 309.00 |
| 6 | 120.00 mm outside dia. | meter | 333.00 |
| 7 | 145.00 mm outside dia. | meter | 376.00 |
| 8 | 160.00 mm outside dia. | meter | 407.00 |
| 9 | 175.00 mm outside dia. | meter | 432.00 |
| 10 | 200.00 mm outside dia. | meter | 481.00 |
| 17.5 | "B" Monoblock type pumping sets |  |  |
|  | (a) 2 H.P. | Each | 11478.00 |
|  | (b) 3 H.P. | Each | 14308.00 |
|  | (c) 5 H.P. | Each | 18038.00 |
|  | (d) 7.5 H.P. | Each | 22424.00 |
|  | (e) 10 H.P. | Each | 29308.00 |
| 17.6 | Supplying of ISI Marked Direct On-Line Starters confirming to IS 13947-4 with suitable over load relay range and contactor size, $415 \mathrm{~V}, 3$-Phase with two earthing terminals |  |  |
| 17.6.1 | $0.75 / 1.0 / 2.0 / 3.0 / 5.0 / 7.5 \mathrm{HP}$ | Each | 1420.00 |
| 17.6.2 | 10 HP | Each | 1630.00 |
| 17.7 | Supplying of ISI Marked Automatic Star-Delta Starters confirming to IS : 13947-4 with suitable over load relay range and contactor size \& timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals |  |  |
| 1 | 10.0 HP | Each | 5325.00 |
| 2 | 12.5 / 15.0 HP | Each | 5550.00 |
| 3 | 20 HP | Each | 6500.00 |
| 4 | 25 HP | Each | 6725.00 |
| 5 | 30 HP | Each | 8500.00 |
| 6 | 35 HP | Each | 10800.00 |
| 7 | 50 HP | Each | 16350.00 |
| 8 | 60 HP | Each | 26500.00 |
| 9 | 75 HP | Each | 27200.00 |
| 17.8 | Labour charges for taking out the submerisble pumping set for tubewell after complition of yield test or development of tubewell. |  |  |
| 1 | submerisible pumping sets upto 2.2 KW | Each | 687.00 |
| 2 | submerisible pumping sets upto 2.2 KW to 7.5 KW | Each | 766.00 |
| 3 | submerisible pumping sets above 7.5 KW | Each | 806.00 |
| note:- | rate for item no. 17.9 adopted from DUAD SSR part 1 of PHE works 2010 chapter 14 |  |  |

## SOLAR DRIVEN LED STREETLIGHT

## Advantages:

Low-cost installation. No trenching, no heavy cable, quick and easy installation anywhere, has lights in days not months.

Ultra-low maintenance and long product life. LED/Induction lighting fixture is rated for 60,000 hours of maintenance free operation, sealed deep cycle maintenance free battery.

Green light source. 40-70\% less power consumption than traditional light sources. Global green LED/Induction lights emit no light pollution, provides bright white light which improves color recognition and improves night visibility from 400\%-1000\% over traditional light sources.

Flexible configuration. Global Green solar lights can be easily configured to suite your requirements with solar module, wind module and battery of various sizes.

Solar light controller provides easy configuration, automatic operations and advanced work modules.

3-5 days backup power for rainy, cloudy days.
Grid-independent and No Bill to pay. Global Green Street light still operates even when the power grid is down, and there will never be an electricity bill to pay.

|  | Solar Street Light vs. Traditional Street Light. |  |
| :--- | :--- | :--- |
| Traditional street light |  | Solar street light |
| Installation cost | Avg. installation cost <br> range from Rs. 3500- <br> 7000 | No trenching, no cabling low, installation cost of <br> LED solar streetlight. |
| Equipment cost | Les investment <br> initially | Initially the investment is high due to high cost <br> of solar PV, battery and LED lamps |
| Running cost | Very high electricity <br> cost per street light <br> annually. | No running cost, free renewable power from <br> SUN. |
| Maintenance cost | Higher maintenance <br> cost Re planning 5000- <br> 8000 Hrs | Long life of solar panel and LED lamp makes |




Solar - LED lit Hoarding \& Signage
Technical Specification

## PV Panel with reflector

| Battery voltage : | 12 V | Solar photo-voltaic based stand alone lighting <br> system with |
| :--- | :--- | :--- |
| Battery capacity : | 12 AV | long life LED's |
| LED output power : | $2 \mathrm{~W}-5 \mathrm{~W}$ | High efficiency crystalline silicon cell based <br> solar modules |
| Daily operation : | 4 Hours | In-built battery for operation during no-sunny <br> days |
| Autonomy : | $-10^{\circ}$ to $50^{\circ} \mathrm{c}$ | Easy to install and maintain <br> the system |
| Operating Temperature : |  | Ideal for small homes, shops, clinics, banks, <br> postal offices and small living and working <br> places. |
|  |  |  |


|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  | Chapter-18 |  |  |
|  | SOLAR STREET LIGHT SYSTEM |  |  |
| S.No. | Description of Item | Unit | Rate |
| 18.1 | Porviding,erecting, testing and commissioning solar street light system on 80 mm heavy duty galvanised iron pipe 6 meter hight with $30 \mathrm{~cm} \times 30 \mathrm{~cm} \times 2 \mathrm{~mm}$ base plate installed own cement concrete padestal casing complete with solar panel, solar battery with charger,other accessories with control panel in weather proof pole box,solar fitting LED type or CFL type 18 watt to 20 watt (set of 2 nos.) | each | 30700.00 |
| 18.2 | Porviding,erecting, testing and commissioning solar powered 30w LED street light system comprising |  |  |
| 1 | LUMINAIRE |  |  |
|  | Housing Die cast/extr. Aluminum rated, Laboratory vetitied with light $\quad$ IP 65 |  |  |
|  | distribution curve |  |  |
|  | Gasket EPDM |  |  |
|  | Lens 5 mm Toughened glass |  |  |
|  | Mounting pipe 50 mm Dia |  |  |
| 2 | Charge controller with charge discharge indicator |  |  |
| 3 | Power supply constant current driver |  |  |
| 4 | LIGHT SOURCE power LED With <br> LM 80 Test report   |  |  |
|  | Input voltage 12 vdc |  |  |
|  | Color Temp (CT) 5000-6500k |  |  |
|  | Beam agnle $120^{\circ}$ (with $120^{\circ} \times 60^{\circ}$ lens-optional) |  |  |
|  | Wattage per LED 1.2 w |  |  |
|  | No. of LED 24 |  |  |
|  | Total Wattage $30 w+4 w$ driver losses |  |  |
|  | Lumen per Watt 90-100lm |  |  |
|  | Luminous flux $\quad 2700-3000 \mathrm{~lm}$ |  |  |
|  | lllumination under Luminaire $>20$ lux at waist hight from 3.5 mtr pole height. |  |  |
|  | Area llluminated 20 ft on either side |  |  |
|  | Life $50,000-60,000$ burning hrs |  |  |
|  | Source philios/osram/cree/edison |  |  |
|  | Control of Light Brite White |  |  |
|  |  |  |  |
| 5 | POLE 3.5 mtr height MS pole |  |  |
|  | Finish Painted over primer coat |  |  |
|  | Arm for Luminaire $\quad{ }^{3 / 4}$ Meter single arm |  |  |
|  | Bracket for panel Thick steel L channel |  |  |
|  | Base Plate 8" $\times 8$ " $\times 10 \mathrm{~mm}$ thick |  |  |
|  |  |  |  |
| 6 | SOLAR PANEL |  |  |
|  | Wattage Total 90 Wp |  |  |
|  | Cell/crystalline silicon cells |  |  |
|  | Application DC 12V |  |  |
|  | Maximum system voltage DC 600 V |  |  |
|  | Maximum power Total 90WP |  |  |
|  | Size of pannel Sutting pole bracket |  |  |


| S.No. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
|  | Operating temperature $\quad-40$ to +90 degree C |  |  |
|  | Battery Tubular battery / optional |  |  |
|  | GEL filled SMF (maintenance free) total $\mathrm{Ah}>100 \mathrm{Ah}$ with 2 days autonomy |  |  |
|  | Volatage 12V |  |  |
|  | Capicity 100 Ah in total |  |  |
|  | Dimension Accommodated in CRCA box |  |  |
|  | Charge setting @ of $27^{\circ}$ degree Charging Voltage per 12 V module |  |  |
|  | Float 13.5 V |  |  |
|  | Boost 13.8 V | 1 job | 67831.00 |
| 18.3 | Porviding,erecting, testing and commissioning solar powered 36w LED street light system comprising |  |  |
| 1 | LUMINAIRE |  |  |
|  | Housing <br> rated, Laboratory vetitied with light IP 65 |  |  |
|  | distribution curve |  |  |
|  | Gasket EPDM |  |  |
|  | Lens 5 mm Toughened glass |  |  |
|  | Mounting pipe 50 mm Dia |  |  |
| 2 | Charge controller with charge discharge indicator |  |  |
| 3 | Power supply constant current driver |  |  |
| 4 | LIGHT SOURCE <br> LM 80 Test report power LED With |  |  |
|  | Input voltage 12 vdc |  |  |
|  | Color Temp (CT) 5000-6500k |  |  |
|  | Beam agnle $120^{\circ}$ (with $120^{\circ} \times 60^{\circ}$ lens-optional) |  |  |
|  | Wattage per LED 1.2 w |  |  |
|  | No. of LED 24 |  |  |
|  | Total Wattage 30w + 4w driver losses |  |  |
|  | Lumen per Watt 90-100lm |  |  |
|  | Luminous flux 2700-3000 Im |  |  |
|  | Illumination under Luminaire $>20$ lux at waist hight from 3.5 mtr pole height. |  |  |
|  | Area Illuminated 20 ft on either side |  |  |
|  | Life 50,000-60,000 burning hrs |  |  |
|  | Source philios/osram/cree/edison |  |  |
|  | Control of Light Brite White |  |  |
|  |  |  |  |
| 5 | POLE 3.5 mtr height MS pole |  |  |
|  | Finish Painted over primer coat |  |  |
|  | Arm for Luminaire ${ }^{3 / 4}$ Meter single arm |  |  |
|  | Bracket for panel Thick steel L channel |  |  |
|  | Base Plate 8" $\times 8 \mathrm{8} \mathrm{\prime} \times 10 \mathrm{~mm}$ thick |  |  |
|  |  |  |  |
| 6 | SOLAR PANEL |  |  |
|  | Wattage Total 90 Wp |  |  |
|  | Cell/crystalline <br> silicon cells 156 mm Mono/ Multi/ Poly crystalline |  |  |
|  | Application DC 12V |  |  |
|  | Maximum system voltage DC 600 V |  |  |
|  | Maximum power Total 90WP |  |  |
|  | Size of pannel Sutting pole bracket |  |  |
|  | Operating temperature $\quad-40$ to + 90 degree C |  |  |
|  | Battery Tubular battery / optional |  |  |


| S.No. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
|  | GEL filled SMF (maintenance free) total $A h>100 A h$ with 2 days autonomy |  |  |
|  | Volatage 12V |  |  |
|  | Capicity 100 Ah in total |  |  |
|  | Dimension Accommodated in CRCA box |  |  |
|  | Charge setting @ of $27^{\circ}$ degree Charging Voltage per 12 V module |  |  |
|  | Float 13.5 V |  |  |
|  | Boost 13.8 V | 1 job | 74433.00 |
| 18.4 | Porviding,erecting, testing and commissioning solar powered 18w LED street light system comprising |  |  |
| 1 | LUMINAIRE |  |  |
|  | Housing <br> rated, Laboratory vetitied with light IP 65 |  |  |
|  | distribution curve |  |  |
|  | Gasket EPDM |  |  |
|  | Lens 5 mm Toughened glass |  |  |
|  | Mounting pipe 50 mm Dia |  |  |
| 2 | Charge controller with charge discharge indicator |  |  |
| 3 | Power supply constant current driver |  |  |
| 4 | LIGHT SOURCE <br> LM 80 Test report power LED With |  |  |
|  | Input voltage 12 vdc |  |  |
|  | Color Temp (CT) 5000-6500k |  |  |
|  | Beam agnle $120^{\circ}$ (with $120^{\circ} \times 60^{\circ}$ lens-optional) |  |  |
|  | Wattage per LED 1.2 w |  |  |
|  | No. of LED 24 |  |  |
|  | Total Wattage 30w + 4w driver losses |  |  |
|  | Lumen per Watt 90-100lm |  |  |
|  | Luminous flux 2700-3000 Im |  |  |
|  | Illumination under Luminaire $>20$ lux at waist hight from 3.5 mtr pole height. |  |  |
|  | Area Illuminated 20 ft on either side |  |  |
|  | Life 50,000-60,000 burning hrs |  |  |
|  | Source philios/osram/cree/edison |  |  |
|  | Control of Light Brite White |  |  |
|  |  |  |  |
| 5 | POLE 3.5 mtr height MS pole |  |  |
|  | Finish Painted over primer coat |  |  |
|  | Arm for Luminaire ${ }^{3 / 4}$ Meter single arm |  |  |
|  | Bracket for panel Thick steel L channel |  |  |
|  | Base Plate 8" $\times 8 \mathrm{8} \mathrm{\prime} \times 10 \mathrm{~mm}$ thick |  |  |
|  |  |  |  |
| 6 | SOLAR PANEL |  |  |
|  | Wattage Total 90 Wp |  |  |
|  | Cell/crystalline silicon cells $\quad 156 \mathrm{~mm} \mathrm{Mono/} \mathrm{Multi/} \mathrm{Poly} \mathrm{crystalline}$ |  |  |
|  | Application DC 12V |  |  |
|  | Maximum system voltage DC 600 V |  |  |
|  | Maximum power Total 90WP |  |  |
|  | Size of pannel Sutting pole bracket |  |  |
|  | Operating temperature $\quad-40$ to +90 degree C |  |  |
|  | Battery Tubular battery / optional |  |  |
|  | GEL filled SMF (maintenance free) total $\mathrm{Ah}>100 \mathrm{Ah}$ with 2 days autonomy |  |  |
|  | Volatage 12V |  |  |


| S.No. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
|  | Capicity 100 Ah in total |  |  |
|  | Dimension Accommodated in CRCA box |  |  |
|  | Charge setting @ of $27^{\circ}$ degree Charging Voltage per 12 V module |  |  |
|  | Float 13.5 V |  |  |
|  | Boost 13.8 V | 1 job | 30014.00 |
| 18.5 | Porviding,erecting, testing and commissioning solar powered 60w LED street light system comprising |  |  |
| 1 | LUMINAIRE |  |  |
|  | Housing <br> rated, Laboratory vetitied with light IP 65 |  |  |
|  | distribution curve |  |  |
|  | Gasket EPDM |  |  |
|  | Lens 5 mm Toughened glass |  |  |
|  | Mounting pipe 50 mm Dia |  |  |
| 2 | Charge controller with charge discharge indicator |  |  |
| 3 | Power supply constant current driver |  |  |
| 4 | LIGHT SOURCE power LED With <br> LM 80 Test report   |  |  |
|  | Input voltage 12 vdc |  |  |
|  | Color Temp (CT) 5000-6500k |  |  |
|  | Beam agnle $120^{\circ}$ (with $120^{\circ} \times 60^{\circ}$ lens-optional) |  |  |
|  | Wattage per LED 1.2 w |  |  |
|  | No. of LED 24 |  |  |
|  | Total Wattage 30w + 4w driver losses |  |  |
|  | Lumen per Watt 90-100lm |  |  |
|  | Luminous flux 2700-3000 Im |  |  |
|  | Illumination under Luminaire $>20$ lux at waist hight from 3.5 mtr pole height. |  |  |
|  | Area Illuminated 20 ft on either side |  |  |
|  | Life 50,000-60,000 burning hrs |  |  |
|  | Source philios/osram/cree/edison |  |  |
|  | Control of Light Brite White |  |  |
|  |  |  |  |
| 5 | POLE 3.5 mtr height MS pole |  |  |
|  | Finish Painted over primer coat |  |  |
|  | Arm for Luminaire $\quad{ }^{3 / 4}$ Meter single arm |  |  |
|  | Bracket for panel Thick steel L channel |  |  |
|  | Base Plate 8" $\times 8 \mathrm{8} \mathrm{\prime} \times 10 \mathrm{~mm}$ thick |  |  |
|  |  |  |  |
| 6 | SOLAR PANEL |  |  |
|  | Wattage Total 90 Wp |  |  |
|  | Cell/crystalline silicon cells $\quad 156 \mathrm{~mm}$ Mono/ Multi/ Poly crystalline |  |  |
|  | Application DC 12V |  |  |
|  | Maximum system voltage $\quad$ DC 600 V |  |  |
|  | Maximum power Total 90WP |  |  |
|  | Size of pannel Sutting pole bracket |  |  |
|  | Operating temperature $\quad-40$ to +90 degree C |  |  |
|  | Battery Tubular battery / optional |  |  |
|  | GEL filled SMF (maintenance free) total $\mathrm{Ah}>100 \mathrm{Ah}$ with 2 days autonomy |  |  |
|  | Volatage 12V |  |  |
|  | Capicity 100 Ah in total |  |  |
|  | Dimension Accommodated in CRCA box |  |  |


| S.No. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
|  | Charge setting @ of $27^{\circ}$ degree Charging Voltage per 12 V module |  |  |
|  | Float 13.5 V |  |  |
|  | Boost 13.8 V | 1 job | 119934.00 |
| 18.6 | Porviding,erecting, testing and commissioning solar powered 20w LED street light system comprising |  |  |
| 1 | LUMINAIRE |  |  |
|  | HousingDie cast/extr. Aluminum <br> rated, Laboratory vetitied with light IP 65 |  |  |
|  | distribution curve |  |  |
|  | Gasket EPDM |  |  |
|  | Lens $\quad 5 \mathrm{~mm}$ Toughened glass |  |  |
|  | Mounting pipe 50 mm Dia |  |  |
| 2 | Charge controller with charge discharge indicator |  |  |
| 3 | Power supply constant current driver |  |  |
| 4 | LIGHT SOURCE power LED With <br> LM 80 Test report   |  |  |
|  | Input voltage 12 vdc |  |  |
|  | Color Temp (CT) 5000-6500k |  |  |
|  | Beam agnle $120^{\circ}$ (with $120^{\circ} \times 60^{\circ}$ lens-optional) |  |  |
|  | Wattage per LED 1.2 w |  |  |
|  | No. of LED 24 |  |  |
|  | Total Wattage $30 w+4 w$ driver losses |  |  |
|  | Lumen per Watt $90-100 \mathrm{~lm}$ |  |  |
|  | Luminous flux 2700-3000 Im |  |  |
|  | Illumination under Luminaire $\quad$ >20 lux at waist hight from 3.5 mtr pole height. |  |  |
|  | Area llluminated 20 ft on either side |  |  |
|  | Life $\quad 50,000-60,000$ burning hrs |  |  |
|  | Source philios/osram/cree/edison |  |  |
|  | Control of Light Brite White |  |  |
|  |  |  |  |
| 5 | POLE 3.5 mtr height MS pole |  |  |
|  | Finish Painted over primer coat |  |  |
|  | Arm for Luminaire $\quad{ }^{3 / 4}$ Meter single arm |  |  |
|  | Bracket for panel Thick steel L channel |  |  |
|  | Base Plate 8 " $\times 8$ " $\times 10 \mathrm{~mm}$ thick |  |  |
|  |  |  |  |
| 6 | SOLAR PANEL |  |  |
|  | Wattage Total 90 Wp |  |  |
|  | Cell/crystalline <br> silicon cells |  |  |
|  | Application DC 12 V |  |  |
|  | Maximum system voltage DC 600 V |  |  |
|  | Maximum power Total 90WP |  |  |
|  | Size of pannel Sutting pole bracket |  |  |
|  | Operating temperature $\quad-40$ to +90 degree C |  |  |
|  | Battery Tubular battery / optional |  |  |
|  | total Ah>100Ah with 2 days autonomy filled SMF (maintenance free) |  |  |
|  | Volatage 12V |  |  |
|  | Capicity 100 Ah in total |  |  |
|  | Dimension Accommodated in CRCA box |  |  |
|  | Charge setting @ of $27^{\circ}$ degree Charging Voltage per 12 V module |  |  |
|  | Float 13.5 V |  |  |
|  | Boost 13.8 ¢05 | 1 job | 35896.00 |

Chapter 19

## Supply of Material List

ELECTRICAL INTERNAL MATERIAL LIST

| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 1 | 1.5 sq mm ISI marked FR PVC insulated, single core copper Multi strand conductor cable. | 100meters | 1034.00 |
| 2 | 2.5 sq mm ISI marked, FR PVC insulated,single core copper Multi strand conductor cable. | 100meters | 1704.00 |
| 3 | 4.0 sq mm ISI marked, FR PVC insulated,single core copper Multi strand conductor cable. | 100meters | 2511.00 |
| 4 | 6.0 sq mm ISI marked, FR PVC insulated, single core copper Multi strand conductor cable. | 100meters | 3877.00 |
| 5 | 10 sq mm ISI marked, FR PVC insulated, single core copper Multi strand conductor cable. | 100meters | 6993.00 |
| 6 | 16 sq mm ISI marked, FR PVC insulated, single core copper conductor cable | 100meters | 11318.00 |
| 7 | 25 sq mm ISI marked, FR PVC insulated, single core copper conductor | 100meters | 18299.00 |
| 8 | 16/0.20 mm twin core FR PVC sheated, flat flexible copper cable | 100meters | 554.00 |
| 9 | $16 / 0.20 \mathrm{~mm}$ twin circular FR PVC sheated, workshop flexible copper cable | 100meters | 738.00 |
| 10 | 16/0.20 mm twin twisted, flexible FR PVC sheathed, flexible copper cable | 100meters | 758.00 |
| 11 | 1 pair, 0.5 sq mm copper conductor, FR PVC insulated unarmoured, telephone cable | 100meters | 3.00 |
| 12 | 2 pair, 0.5 sq mm copper conductor, FR PVC insulated unarmoured, telephone cable | 1 meters | 6.00 |
| 13 | 4 pair, 0.5 sq mm copper conductor, FR PVC insulated, unarmoured, telephone cable | 1 meters | 7.00 |
| 14 | Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with FR PVC sheath | 1 meters | 9.00 |
| 15 | 20 mm dia. ISI marked, steel conduit | 1 meters | 6791.00 |
| 16 | 25 mm dia. ISI marked, steel conduit | 100 mtrs | 4370.00 |
| 17 | 32 mm dia. ISI marked, steel conduit | 100 mtrs | 5729.00 |
| 18 | 40 mm dia. ISI marked, steel conduit | 100 mtrs | 7396.00 |
| 19 | 50 mm dia. ISI marked, steel conduit | 100 mtrs | 10505.00 |
| 20 | 20 mm inspection/ solid bends | 100 mtrs | 1098.00 |
| 21 | 25 mm inspection/ solid bends | 100 no. | 826.00 |
| 22 | 32 mm inspection/ solid bends | 100 no. | 2162.00 |
| 23 | 40 mm inspection/ solid bends | 100 no. | 4250.00 |
| 24 | 50 mm inspection/ solid bends | 100 no. | 6076.00 |
| 25 | 20 mm sockets | 100 no . | 284.00 |
| 26 | 25 mm sockets | 100 no. | 331.00 |
| 27 | 32 mm sockets | 100 no. | 401.00 |
| 28 | 40 mm sockets | 100 no. | 435.00 |
| 29 | 50 mm sockets | 100 no. | 473.00 |
| 30 | 20 mm junction box, one way | 100 no. | 1134.00 |
| 31 | 20 mm junction box, two way | 100 no. | 1134.00 |
| 32 | 20 mm iron stabpples/ saddles/screws | 100 no. | 99.00 |
| 33 | 25 mm iron stabpples/ saddles/screws | 100 no. | 270.00 |
| 34 | 32 mm iron stabpples/ saddles/screws | 100 no. | 174.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 35 | 40 mm iron stabpples/ saddles/screws | 100 no. | 201.00 |
| 36 | 50 mm iron stabpples/ saddles/screws | 100 no. | 307.00 |
| 37 | 20 mm dia ISI marked, PVC conduit | 100 no. | 2079.00 |
| 38 | 25 mm dia ISI marked, PVC conduit | 100 mtrs | 2573.00 |
| 39 | 32 mm dia ISI marked, PVC conduit | 100 mtrs | 2032.00 |
| 40 | 40 mm dia ISI marked, PVC conduit | 100 mtrs | 2807.00 |
| 41 | 50 mm dia ISI marked, PVC conduit | 100 mtrs | 4460.00 |
| 42 | 20 mm PVC bends | 100 mtrs | 386.00 |
| 43 | 25 mm PVC bends | 100 no. | 486.00 |
| 44 | 32 mm PVC bends | 100 no. | 662.00 |
| 45 | 40 mm PVC bends | 100 no. | 1134.00 |
| 46 | 50 mm PVC bends | 100 no. | 1701.00 |
| 47 | 20 mm PVC couplers | 100 no. | 189.00 |
| 48 | 25 mm PVC couplers | 100 no. | 236.00 |
| 49 | 32 mm PVCcouplers | 100 no. | 378.00 |
| 50 | 40 mm PVC couplers | 100 no. | 614.00 |
| 51 | 50 mm PVC couplers | 100 no. | 851.00 |
| 52 | 20 mm PVC junction box, one way | 100 no. | 763.00 |
| 53 | 20 mm PVC junction box, two way | 100 no. | 763.00 |
| 54 | 20 mm M.S clamps | 100 no. | 454.00 |
| 55 | 25 mm M. 5 clamps | 100 no. | 605.00 |
| 56 | $75 \mathrm{~mm} \times 75 \mathrm{~mm} \times 50 \mathrm{~mm}$ PVC box | 100 no. | 907.00 |
| 57 | Modular GI box for 2 module | 100 no. | 16.00 |
| 58 | Modular GI box for 4 module | 1 no. | 56.00 |
| 59 | Modular GI box for 6 module | 1 no. | 34.00 |
| 60 | Modular GI box for 8 module | 1 no. | 42.00 |
| 61 | Modular GI box for 12 module | 1 no. | 57.00 |
| 62 | $75 \mathrm{~mm} \times 75 \mathrm{~mm} \times 60 \mathrm{MM}$ deep metal box | 1 no. | 2245.00 |
| 63 | $100 \mathrm{~mm} \times 100 \mathrm{~mm} \times 60 \mathrm{MM}$ deep metal box | 100 nos | 1985.00 |
| 64 | $150 \mathrm{~mm} \times 75 \mathrm{~mm} \times 60 \mathrm{MM}$ deep metal box | 100 nos | 2174.00 |
| 65 | $150 \mathrm{~mm} \times 150 \mathrm{~mm} \times 60 \mathrm{MM}$ deep metal box | 100 nos | 3024.00 |
| 66 | $180 \mathrm{~mm} \times 100 \mathrm{~mm} \times 60 \mathrm{MM}$ deep metal box | 100 nos | 2693.00 |
| 67 | $200 \mathrm{~mm} \times 125 \mathrm{~mm} \times 60 \mathrm{MM}$ deep metal box | 100 nos | 3638.00 |
| 68 | $200 \mathrm{~mm} \times 150 \mathrm{~mm} \times 60 \mathrm{MM}$ deep metal box | 100 nos | 3544.00 |
| 69 | $200 \mathrm{~mm} \times 150 \mathrm{~mm} \times 75 \mathrm{MM}$ deep metal box | 100 nos | 3780.00 |
| 70 | $200 \mathrm{~mm} \times 250 \mathrm{~mm} \times 75 \mathrm{MM}$ deep metal box | 100 nos | 5387.00 |
| 71 | $200 \mathrm{~mm} \times 150 \mathrm{~mm} \times 100 \mathrm{MM}$ deep metal box | 100 nos | 5670.00 |
| 72 | $200 \mathrm{~mm} \times 250 \mathrm{~mm} \times 100 \mathrm{MM}$ deep metal box | 100 nos | 6237.00 |
| 73 | $200 \mathrm{~mm} \times 300 \mathrm{~mm} \times 100 \mathrm{MM}$ deep metal box | 100 nos | 7088.00 |
| 74 | $250 \mathrm{~mm} \times 300 \mathrm{~mm} \times 100 \mathrm{MM}$ deep metal box | 100 nos | 7371.00 |
| 75 | $200 \mathrm{~mm} \times 250 \mathrm{~mm} \times 60 \mathrm{MM}$ deep metal box | 100 nos | 4914.00 |
| 76 | $200 \mathrm{~mm} \times 300 \mathrm{~mm} \times 60 \mathrm{MM}$ deep metal box | 100 nos | 5576.00 |
| 77 | $250 \mathrm{~mm} \times 300 \mathrm{~mm} \times 60 \mathrm{MM}$ deep metal box | 100 nos | 6332.00 |
| 78 | 3 mm thick phenolic laminated sheet | 100 nos | 95.00 |
| 79 | $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron | 1000sq cm | 32.00 |
| 80 | $35 \mathrm{~mm} \times 35 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron | 1 kg | 32.00 |
| 81 | $25 \mathrm{~mm} \times 25 \mathrm{~mm} \times 3 \mathrm{~mm}$ angle iron | 1 kg | 39.00 |
| 82 | $25 \mathrm{~mm} \times 6 \mathrm{~mm}$ flat iron | 1 kg | 38.00 |
| 83 | $25 \mathrm{~mm} \times 4 \mathrm{~mm}$ flat iron | 1 kg | 38.00 |
| 84 | $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ flat iron | 1 kg | 38.00 |
| 85 | 1.6 mm thick M.S sheet | 1 kg | 38.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 86 | 3 mm thick M.S sheet | 1 kg | 38.00 |
| 87 | 15 mm dia G.I pipe, medium class | 1 kg | 5920.00 |
| 88 | 20 mm dia G.I pipe, medium class | 100 mtrs | 7810.00 |
| 89 | 25 mm dia G.I pipe, medium class | 100 mtrs | 11235.00 |
| 90 | 40 mm dia G.I pipe, medium class | 100 mtrs | 14175.00 |
| 91 | 15 mm dia G.I bend, medium class | 100 mtrs | 15.00 |
| 92 | 20 mm dia G.I bend, medium class | 1 no. | 23.00 |
| 93 | 25 mm dia G.I bend, medium class | 1 no. | 35.00 |
| 94 | 40 mm dia G.I bend, medium class | 1 no. | 57.00 |
| 95 | 15 mm dia G.I pipe, heavy class | 1 no. | 7182.00 |
| 96 | 20 mm dia G.I pipe, heavy class | 100 mtrs | 8505.00 |
| 97 | Ceiling rose, 3 plate, 5 amps bakelite | 100 mtrs | 1260.00 |
| 98 | S.P 5/6 amps, one way modular switch, ISI marked | 100 no. | 32.00 |
| 99 | S.P 5/6 amps, two way modular switch, ISI marked | 1 no.s | 33.00 |
| 100 | S.P 15/16 amps, one way modular switch, ISI marked | 1 no.s | 102.00 |
| 101 | 3 pin 5/6 amps, modular socket outlet, ISI marked | 1 no.s | 50.00 |
| 102 | 6 pin 15/16 amps, modular socket outlet, ISI marked | 1 no.s | 174.00 |
| 103 | Moudular bell push, ISI Marked | 1 no.s | 34.00 |
| 104 | Steped type Modular fan regulator | 1 no.s | 217.00 |
| 105 | Telephone socket outlet modular type | 1 no.s | 45.00 |
| 106 | T.V socket outlet modular type | 1 no.s | 44.00 |
| 107 | Moudular blanking plate | 1 no.s | 7.00 |
| 108 | Modular base \& cover plate for 1 module | 1 each | 36.00 |
| 109 | Modular base \& cover plate for 2 module | 1 no.s | 38.00 |
| 110 | Modular base \& cover plate for 4 module | 1 no.s | 55.00 |
| 111 | Modular base \& cover plate for 6 module | 1 no.s | 80.00 |
| 112 | Modular base \& cover plate for 8 module | 1 no.s | 93.00 |
| 113 | Modular base \& cover plate for 12 module | 1 no.s | 123.00 |
| 114 | S.P 5/6 amps, one way switch, piano type ISI marked | 1 no.s | 1302.00 |
| 115 | S.P 5/6 amps, two way switch, piano type ISI marked | 100 no. | 2025.00 |
| 116 | S.P 15/16 amps, one way switch, piano type ISI marked | 100 no. | 2381.00 |
| 117 | 3 pin $5 / 6 \mathrm{amps}$, socket outlet,piano type ISI marked | 100 no. | 2122.00 |
| 118 | 3 pin 15/16 amps, socket outlet,piano type ISI marked | 100 no. | 2797.00 |
| 119 | Bell push, piano type | 100 no. | 1860.00 |
| 120 | Telephone socket outlet piano type | 1 no.s | 14.00 |
| 121 | T.V socket outlet piano type | 1 no.s | 14.00 |
| 122 | Brass pendant holder | 1 no.s | 1966.00 |
| 123 | Brass batten/angle holder | 100 no. | 1871.00 |
| 124 | Brass bracket holder 16 mm | 100 no. | 1966.00 |
| 125 | call bell/ buzzer, AC/DC, single phase | 100 no. | 1260.00 |
| 126 | Ball and socket | 100 no. | 1040.00 |
| 127 | Iron swcrews, $35 \mathrm{~mm} \times 6 \mathrm{~mm}$ | 100 no. | 38.00 |
| 128 | Iron swcrews, $40 \mathrm{~mm} \times 6 \mathrm{~mm}$ | 100 no. | 42.00 |
| 129 | Iron swcrews, $45 \mathrm{~mm} \times 6 \mathrm{~mm}$ | 100 no. | 47.00 |
| 130 | 200 amps , TPN, rising mains with alumininum bushbar | 100 no. | 3675.00 |
| 131 | 300 amps , TPN, rising mains with alumininum bushbar | 1 mtr | 3780.00 |
| 132 | 400 amps , TPN, rising mains with alumininum bushbar | 1 mtr | 4242.00 |
| 133 | 600 amps , TPN, rising mains with alumininum bushbar | 1 mtr | 5702.00 |
| 134 | 800 amps , TPN, rising mains with alumininum bushbar | 1 mtr | 7140.00 |
| 135 | 16 amps, TPN, one way, tap off box with ISI marked HRC fuses for rising mains | 1 mtr | 2121.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 136 | 32 amps, TPN, one way, tap off box with ISI marked HRC fuses for rising mains | 1 no | 3255.00 |
| 137 | 63 amps, TPN, one way, tap off box with ISI marked HRC fuses for rising mains | 1 no | 5775.00 |
| 138 | 100 amps, TPN, one way, tap off box with ISI marked HRC fuses for rising mains | 1 no | 8190.00 |
| 139 | 200 amps, TPN, one way, tap off box with ISI marked HRC fuses for rising mains | 1 no | 8610.00 |
| 140 | 16 amps, TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 2914.00 |
| 141 | 16 amps, TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 4337.00 |
| 142 | 16 amps, TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 6098.00 |
| 143 | 16 amps, TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 6767.00 |
| 144 | 32 amps, TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 3864.00 |
| 145 | 32 amps, TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 5832.00 |
| 146 | 32 amps, TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 9345.00 |
| 147 | 32 amps, TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 11146.00 |
| 148 | 63 amps, TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 6836.00 |
| 149 | 63 amps, TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 9815.00 |
| 150 | 63 amps, TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 13776.00 |
| 151 | 63 amps, TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 19079.00 |
| 152 | 100 amps, TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 19562.00 |
| 153 | 100 amps, TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 29379.00 |
| 154 | 100 amps, TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains | 1 no | 39123.00 |
| 155 | 200 amps, TPN, adaptor box with cable end box, and brass compression gland for rising mains | 1 no | 6930.00 |
| 156 | 300 amps, TPN, adaptor box with cable end box, and brass compression gland for rising mains | 1 no | 8190.00 |
| 157 | 400 amps, TPN, adaptor box with cable end box, and brass compression gland for rising mains | 1 no | 8568.00 |
| 158 | 600 amps, TPN, adaptor box with cable end box, and brass compression gland for rising mains | 1 no | 10710.00 |
| 159 | 800 amps, TPN, adaptor box with cable end box, and brass compression gland for rising mains | 1 no | 11970.00 |
| 160 | 800 amps . TPN,bus trunking with aluminium bushbars | 1 no | 7130.00 |
| 161 | 1000 amps . TPN,bus trunking with aluminium bushbars | 1 no | 8006.00 |
| 162 | 1250 amps. TPN,bus trunking with aluminium bushbars | 1 no | 8794.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 163 | 1400 amps. TPN,bus trunking with aluminium bushbars | 1 no | 10500.00 |
| 164 | 1600 amps. TPN,bus trunking with aluminium bushbars | 1 no | 12327.00 |
| 165 | 200 amps . TPN,overhead bushbars with aluminium bushbars | 1 no | 2310.00 |
| 166 | 400 amps . TPN,overhead bushbars with aluminium bushbars | 1 no | 3465.00 |
| 167 | 32 amps. TPN,plug-in-box with ISI marked HRC fuses for overhead bushbars | 1 no | 1733.00 |
| 168 | 63 amps. TPN,plug-in-box with ISI marked HRC fuses for overhead bushbars | 1 no | 2573.00 |
| 169 | 100 amps. TPN,plug-in-box with ISI marked HRC fuses for overhead bushbars | 1 no | 5145.00 |
| 170 | 32 amps, TPN , switch disconnector fuse unit (Pannel mounted type) with ISI marked HRC fuses | 1 no | 668.00 |
| 171 | 63 amps, TPN , switch disconnector fuse unit (Pannel mounted type) with ISI marked HRC fuses | 1 no. | 986.00 |
| 172 | 100 amps, TPN, switch disconnector fuse unit (Pannel mounted type) with ISI marked HRC fuses | 1 no. | 2079.00 |
| 173 | 125 amps, TPN, switch disconnector fuse unit (Pannel mounted type) with ISI marked HRC fuses | 1 no. | 2363.00 |
| 174 | 160 amps, TPN, switch disconnector fuse unit (Pannel mounted type) with ISI marked HRC fuses | 1 no. | 2876.00 |
| 175 | 200 amps , TPN switch fuse unit with ISI marked HRC fuses | 1 no. | 3191.00 |
| 176 | 320 amps , TPN switch fuse unit with ISI marked HRC fuses | 1 no. | 4996.00 |
| 177 | 400 amps , TPN switch fuse unit with ISI marked HRC fuses | 1 no. | 6143.00 |
| 178 | 4 pole MCCB, $100 \mathrm{~A}, 10 \mathrm{KA}$ | 1 no. | 1449.00 |
| 179 | 4 pole MCCB, $100 \mathrm{~A}, 16 \mathrm{KA}$ | 1 no. | 2142.00 |
| 180 | 4 pole MCCB, $125 \mathrm{~A}, 16 \mathrm{KA}$ | 1 no. | 3276.00 |
| 181 | 4 pole MCCB, $150 \mathrm{~A}, 16 \mathrm{KA}$ | 1 no. | 3591.00 |
| 182 | 4 pole MCCB, $200 \mathrm{~A}, 16 \mathrm{KA}$ | 1 no. | 3843.00 |
| 183 | 4 pole MCCB, $200 \mathrm{~A}, 25 \mathrm{KA}$ | 1 no. | 5040.00 |
| 184 | 4 pole MCCB, $250 \mathrm{~A}, 25 \mathrm{KA}$ | 1 no. | 5985.00 |
| 185 | 4 pole MCCB, $250 \mathrm{~A}, 35 \mathrm{KA}$ | 1 no. | 7875.00 |
| 186 | 4 pole MCCB, with adjustable thermal setting $315 \mathrm{~A}, 35 \mathrm{KA}$ | 1 no. | 10710.00 |
| 187 | 4 pole MCCB, with adjustable thermal setting $400 \mathrm{~A}, 35 \mathrm{KA}$ | 1 no. | 10710.00 |
| 188 | 4 pole MCCB, with adjustable thermal setting $500 \mathrm{~A}, 35 \mathrm{KA}$ | 1 no. | 11781.00 |
| 189 | 4 pole MCCB, with adjustable thermal setting $630 \mathrm{~A}, 35 \mathrm{KA}$ | 1 no. | 11781.00 |
| 190 | 4 pole MCCB, with adjustable thermal setting $800 \mathrm{~A}, 35 \mathrm{KA}$ | 1 no. | 14490.00 |
| 191 | 6 amps.to 32 amps. Rating, SP MCB, "B" series, 10 KA breaking capicity | 1 no. | 68.00 |
| 192 | 6 amps.to 32 amps. Rating, SPN MCB, "B" series, 10 KA breaking capicity | 1 no. | 147.00 |
| 193 | 6 amps.to 32 amps. Rating, DP MCB, "B" series, 10 KA breaking capicity | 1 no. | 158.00 |
| 194 | 6 amps.to 32 amps. Rating, TP MCB, "B" series, 10 KA breaking capicity | 1 no. | 242.00 |
| 195 | 6 amps.to 32 amps. Rating, TPN MCB, "B" series, 10 KA breaking capicity | 1 no. | 315.00 |
| 196 | 6 amps.to 32 amps. Rating, SP MCB, "C" series, 10 KA breaking capicity | 1 no. | 76.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 197 | 6 amps.to 32 amps. Rating, SPN MCB, "C" series, 10 KA breaking capicity | 1 no. | 214.00 |
| 198 | 6 amps.to 32 amps. Rating, DP MCB, "C" series, 10 KA breaking capicity | 1 no. | 233.00 |
| 199 | 6 amps.to 32 amps. Rating, TP MCB, "C" series, 10 KA breaking capicity | 1 no. | 347.00 |
| 200 | 6 amps.to 32 amps. Rating, TPN MCB, "C" series, 10 KA breaking capicity | 1 no. | 454.00 |
| 201 | Single pole, blanking plate | 1 no. | 2.00 |
| 202 | 40 amps ., 2 pole isolator | 1 no. | 143.00 |
| 203 | 63 amps ., 2 pole isolator | 1 no. | 170.00 |
| 204 | 40 amps ., 4 pole isolator | 1 no. | 302.00 |
| 205 | $63 \mathrm{amps} ., 4$ pole isolator | 1 no. | 318.00 |
| 206 | 100 amps ., 4 pole isolator | 1 no. | 410.00 |
| 207 | 25 amps . Rating, 2 pole RCCB, $100 \mathrm{~mA} / 300 \mathrm{~mA}$ | 1 no. | 857.00 |
| 208 | 40 amps Rating, 2 pole RCCB, $100 \mathrm{~mA} / 300 \mathrm{~mA}$ | 1 no. | 910.00 |
| 209 | 63 amps Rating, 2 pole RCCB, $100 \mathrm{~mA} / 300 \mathrm{~mA}$ | 1 no. | 1222.00 |
| 210 | 25 amps . Rating, 4 pole RCCB, $100 \mathrm{~mA} / 300 \mathrm{~mA}$ | 1 no. | 1040.00 |
| 211 | 40 amps Rating, 4 pole RCCB, $100 \mathrm{~mA} / 300 \mathrm{~mA}$ | 1 no. | 1077.00 |
| 212 | 63 amps Rating, 4 pole RCCB, $100 \mathrm{~mA} / 300 \mathrm{~mA}$ | 1 no. | 1279.00 |
| 213 | $16 / 25 \mathrm{amps}$. Rating, 2 pole ELCB + MCB $100 \mathrm{Ma} / 300 \mathrm{Ma}$ sensitivity | 1 no. | 1037.00 |
| 214 | $32 / 40 \mathrm{amps}$. Rating, 2 pole ELCB + MCB $100 \mathrm{Ma} / 300 \mathrm{Ma}$ sensitivity | 1 no. | 1093.00 |
| 215 | 63 amps . Rating, 2 pole ELCB + MCB $100 \mathrm{Ma} / 300 \mathrm{Ma}$ sensitivity | 1 no. | 1213.00 |
| 216 | 16/25 amps. Rating, 4 pole ELCB + MCB $100 \mathrm{Ma} / 300 \mathrm{Ma}$ sensitivity | 1 no. | 1151.00 |
| 217 | 32/40 amps. Rating, 4 pole ELCB + MCB $100 \mathrm{Ma} / 300 \mathrm{Ma}$ sensitivity | 1 no. | 1187.00 |
| 218 | 63 amps . Rating, 4 pole ELCB + MCB $100 \mathrm{Ma} / 300 \mathrm{Ma}$ sensitivity | 1 no. | 1425.00 |
| 219 | 10 amps, SPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure | 1 no. | 294.00 |
| 220 | 20 amps, SPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure | 1 no. | 305.00 |
| 221 | 10 amps, TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure | 1 no. | 546.00 |
| 222 | 20 amps, TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure | 1 no. | 751.00 |
| 223 | 2 way, SPN, single door, MCB DB | 1 no. | 76.00 |
| 224 | 4 way, SPN, single door, MCB DB | 1 no. | 205.00 |
| 225 | 8 way, SPN, single door, MCB DB | 1 no. | 271.00 |
| 226 | 12 way, SPN, single door, MCB DB | 1 no. | 356.00 |
| 227 | 16 way, SPN, single door, MCB DB | 1 no. | 435.00 |
| 228 | 4 way, SPN, double door, MCB DB | 1 no. | 343.00 |
| 229 | 8 way, SPN, double door, MCB DB | 1 no. | 583.00 |
| 230 | 12 way, SPN, double door, MCB DB | 1 no. | 617.00 |
| 231 | 16 way, SPN, double door, MCB DB | 1 no. | 743.00 |
| 232 | 2+4 way, SPN, MCB DB consumer unit with acrylic cover | 1 no. | 444.00 |
| 233 | 2+8 way, SPN, MCB DB consumer unit with acrylic cover | 1 no. | 532.00 |
| 234 | 2+12 way, SPN, MCB DB consumer unit with acrylic cover | 1 no. | 624.00 |
| 235 | 2+16 way, SPN, MCB DB consumer unit with acrylic cover | 1 no. | 714.00 |
| 236 | 4 way (4+12), TPN, MCB DB, single door, horizontal type | 1 no. | 674.00 |
| 237 | 6 way ( $4+18$, TPN, MCB DB, single door, horizontal type | 1 no. | 803.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 238 | 8 way (4+24, TPN, MCB DB, single door, horizontal type | 1 no. | 1201.00 |
| 239 | 4 way (4+12), TPN, MCB DB, double door, horizontal type | 1 no. | 1130.00 |
| 240 | 6 way (4+18), TPN, MCB DB, double door, horizontal type | 1 no. | 1429.00 |
| 241 | 8 way (4+24), TPN, MCB DB, double door, horizontal type | 1 no. | 1586.00 |
| 242 | 4 way (8+12), TPN, vertical type, MCB DB, single door | 1 no. | 1578.00 |
| 243 | 8 way (8+24), TPN, vertical type, MCB DB, single door | 1 no. | 2073.00 |
| 244 | 12 way (8+36), TPN, vertical type, MCB DB, single door | 1 no. | 2567.00 |
| 245 | 4 way (8+12), TPN, vertical type, MCB DB, double door | 1 no. | 2255.00 |
| 246 | 8 way (8+24), TPN, vertical type, MCB DB, double door | 1 no. | 2873.00 |
| 247 | 12 way (8+36), TPN, vertical type, MCB DB, double door | 1 no. | 3714.00 |
| 248 | 4 way, TPN, vertical type, single door, MCB DB with $100 \mathrm{amps}, 10 \mathrm{KA}$, MCCB | 1 no. | 2687.00 |
| 249 | 8 way, TPN, vertical type, single door, MCB DB with $100 \mathrm{amps}, 10 \mathrm{KA}$, MCCB | 1 no. | 3207.00 |
| 250 | 12 way, TPN, vertical type, single door, MCB DB with 100 amps, 10 KA, MCCB | 1 no. | 3686.00 |
| 251 | $2+4$ way, SPN, prewired MCB DB with extended loose wire box,single door | 1 no. | 1259.00 |
| 252 | $2+8$ way, SPN, prewired MCB DB with extended loose wire box,single door | 1 no. | 1530.00 |
| 253 | $2+12$ way, SPN , prewired MCB DB with extended loose wire box,single door | 1 no. | 1819.00 |
| 254 | $4+4$ way, SPN, prewired MCB DB with extended loose wire box, double door | 1 no. | 1894.00 |
| 255 | $4+8$ way, SPN, prewired MCB DB with extended loose wire box, double door | 1 no. | 2714.00 |
| 256 | $4+12$ way, SPN, prewired MCB DB with extended loose wire box, double door | 1 no. | 3581.00 |
| 257 | 4 way, ( $4+4$ ) TPN, prewired MCB DB with extended loose wire box, single door | 1 no. | 4377.00 |
| 258 | 6 way, ( $4+6$ ) TPN,prewired MCB DB with extended loose wire box, single door | 1 no. | 6009.00 |
| 259 | 8 way, ( $4+8$ ) TPN,prewired MCB DB with extended loose wire box, single door | 1 no. | 6889.00 |
| 260 | 12 way, ( $4+12$ ) TPN, prewired MCB DB with extended loose wire box, single door | 1 no. | 8247.00 |
| 261 | 4 way, ( $4+4$ ) TPN, prewired MCB DB with extended loose wire box, double door | 1 no. | 4897.00 |
| 262 | 6 way, ( $4+6$ ) TPN,prewired MCB DB with extended loose wire box, double door | 1 no. | 6329.00 |
| 263 | 8 way, ( $4+8$ ) TPN, prewired MCB DB with extended loose wire box, double door | 1 no. | 7623.00 |
| 264 | 12 way, ( $4+12$ ) TPN,prewired MCB DB with extended loose wire box, double door | 1 no. | 9009.00 |
| 265 | 4 way, ( $4+4$ ) TPN, vertical type prewired MCB DB with extended loose wire box, single door | 1 no. | 5833.00 |
| 266 | 6 way, ( $4+6$ ) TPN, vertical type, prewired MCB DB with extended loose wire box, single door | 1 no. | 7594.00 |
| 267 | 8 way, ( $4+8$ ) TPN, vertical type prewired MCB DB with extended loose wire box, single door | 1 no. | 9182.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 268 | 12 way, ( $4+12$ ) TPN, vertical type prewired MCB DB with extended loose wire box, single door | 1 no. | 11030.00 |
| 269 | 4 way, ( $4+4$ ) TPN, vertical type prewired MCB DB with extended loose wire box, double door | 1 no. | 6122.00 |
| 270 | 6 way, ( $4+6$ ) TPN, vertical type prewired MCB DB with extended loose wire box, double door | 1 no. | 7912.00 |
| 271 | 8 way, ( $4+8$ ) TPN, vertical type prewired MCB DB with extended loose wire box, double door | 1 no. | 9529.00 |
| 272 | 12 way, ( $4+12$ ) TPN, vertical type prewired MCB DB with extended loose wire box, double door | 1 no. | 11435.00 |
| 273 | $250 \mathrm{~mm} \times 200 \mathrm{~mm}$ H.T. danger notice plate | 1 no. | 32.00 |
| 274 | $200 \mathrm{~mm} \times 150 \mathrm{~mm}$ M.V. danger notice plate |  | 26.00 |
| 275 | $600 \mathrm{~mm} \times 600 \mathrm{~mm} \times 6 \mathrm{~mm}$ thick G.I plate |  | 529.00 |
| 276 | $600 \mathrm{~mm} \times 600 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick ( 10.5 kg ) copper plate |  | 2079.00 |
| 277 | $25 \mathrm{~mm} \times 5 \mathrm{~mm}$ G.I strip ( $1.0 \mathrm{~kg} / \mathrm{mtr}$ ) |  | 32.00 |
| 278 | $25 \mathrm{~mm} \times 6 \mathrm{~mm}$ G.I strip ( $1.2 \mathrm{~kg} / \mathrm{mtr}$ ) |  | 38.00 |
| 279 | 25 mm X 5 mm copper tape ( $1.15 \mathrm{~kg} / \mathrm{mtr}$ ) |  | 239.00 |
| 280 | 6 SWG G.I wire |  | 40.00 |
| 281 | 8 SWG G.I wire ( 4.0 mm dia ) |  | 36.00 |
| 282 | 8 SWG copper wire ( 4.0 mm dia ) |  | 239.00 |
| 283 | 40 mm to 20 mm reducer |  | 15.00 |
| 284 | Lightning finial, 25 mm dia $\times 300 \mathrm{~mm}$ long, Copper |  | 357.00 |
| 285 | Lightning finial, 25 mm dia $\times 300 \mathrm{~mm}$ long, G.I |  | 142.00 |
| 286 | Looking arrangement with hinged cover plate |  | 194.00 |
| 287 | Charges for making holes with auger |  | 151.00 |
| 288 | Locking arrangement with key |  | 34.00 |
| 289 | G.I wire, 10 SWG |  | 33.00 |
| 290 | 2.24 mm dia bare copper earth wire |  | 1050.00 |
| 291 | 50 mm X 5 mm copper tape ( $2.30 \mathrm{~kg} / \mathrm{mtr}$ ) |  | 236.00 |
| 292 | 25 mm PVC junction box, one way |  | 810.00 |
| 293 | 25 mm steel junction box two way | 100 no. | 2054.00 |
| 294 | 20 mm PVC casing caping | 100 no. | 861.00 |
| 295 | 25 mm PVC casing caping | 100 no. | 1369.00 |
| 296 | 16 amps switch socket combined flush type | 100 no. | 7745.00 |
| 297 | 35 sq mm ISI marked, FR PVC insulated, single core copper conductor cable | 100 no. | 24528.00 |
| 298 | 50 sq mm ISI marked, FR PVC insulated, single core copper conductor cable | 100meters | 37519.00 |
| 299 | Iron clad/metal clad Main switch 16 Amps. 250 Volts | 100meters | 255.00 |
| 300 | Iron clad/metal clad Main switch 32 Amps. 250 Volts | Each | 674.00 |
| 301 | 15/16 amps DP Switch Flush type with indicater | Each | 66.00 |
| 302 | Iron clad TPN Main switch 16 Amps. 415/500 Volts. | Each | 852.00 |
| 303 | Iron clad TPN Main switch 32 Amps. 415/500 Volts. | Each | 1183.00 |
| 304 | Iron clad TPN Main switch 63 Amps. 415/500 Volts. | Each | 2479.00 |
| 305 | Iron clad TPN Main switch 100 Amps. 415/500 Volts. | Each | 4619.00 |
| 306 | Iron clad TPN Main switch 200 Amps. 415/500 Volts. | Each | 7493.00 |
| 307 | Iron clad TPN Main switch 320 Amps. 415/500 Volts. | Each | 10351.00 |
| 308 | Iron clad TPN Main switch without HRC 16 Amps. 415/500 Volts. | Each | 778.00 |
| 309 | Iron clad TPN Main switch without HRC 32 Amps. 415/500 Volts. | Each | 1087.00 |
| 310 | Iron clad TPN Main switch without HRC 63 Amps. 415/500 Volts. | Each | 2327.00 |
| 311 | Iron clad TPN Main switch without HRC 100 Amps. 415/500 Volts. | Each | 4345.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 312 | Iron clad TPN Main switch without HRC 200 Amps. 415/500 Volts. | Each | 6211.00 |
| 313 | Iron clad TPN Main switch without HRC 400 Amps. 415/500 Volts. | Each | 11817.00 |
| 314 | Iron clad TPN Main switch without HRC 500 Amps. 415/500 Volts. | Each | 14352.00 |
| 315 | Iron clad TPN Main switch without HRC 600 Amps. 415/500 Volts. | Each | 17135.00 |
| 316 | Isolator in sheet steel enclosure 32 Amps. 415/500 Volts. | Each | 483.00 |
| 317 | Isolator in sheet steel enclosure 63 Amps. 415/500 Volts. | Each | 500.00 |
| 318 | Isolator in sheet steel enclosure $100 \mathrm{Amps} .415 / 500$ Volts. | Each | 652.00 |
| 319 | Iron clad four pole change over switch 16 Amps. 415/500 Volts. | Each | 1374.00 |
| 320 | Iron clad four pole change over switch 32 Amps. 415/500 Volts. | Each | 1653.00 |
| 321 | Iron clad four pole change over switch 63 Amps. 415/500 Volts. | Each | 3362.00 |
| 322 | Iron clad four pole change over switch 100 Amps. 415/500 Volts. | Each | 6763.00 |
| 323 | Iron clad four pole change over switch 200 Amps. 415/500 Volts. | Each | 9677.00 |
| 324 | Iron clad four pole change over switch 300 Amps. 415/500 Volts. | Each | 12310.00 |
| 325 | Iron clad four pole change over switch 400 Amps. 415/500 Volts. | Each | 16053.00 |
| 326 | Iron clad four pole change over switch 6300 Amps. 415/500 Volts. | Each | 24638.00 |
| 327 | Iron clad four pole change over switch 800 Amps. 415/500 Volts. | Each | 30718.00 |
| 328 | On-Load Change over switch40 Amps. (open - execution ) | Each | 3018.00 |
| 329 | On-Load Change over switch63 Amps. (open - execution) | Each | 3179.00 |
| 330 | On-Load Change over switch100 Amps. (open - execution) | Each | 4058.00 |
| 331 | On-Load Change over switch125 Amps. .(open - execution ) | Each | 6067.00 |
| 332 | On-Load Change over switch160 Amps. (open - execution) | Each | 6282.00 |
| 333 | On-Load Change over switch200 Amps. (open - execution) | Each | 7728.00 |
| 334 | On-Load Change over switch250 Amps. (open - execution) | Each | 11047.00 |
| 335 | On-Load Change over switch320 Amps. .(open - execution ) | Each | 11682.00 |
| 336 | On-Load Change over switch400 Amps. .(open - execution ) | Each | 17014.00 |
| 337 | On-Load Change over switch630 Amps. .(open - execution ) | Each | 19688.00 |
| 338 | On-Load Change over switch800 Amps. .(open - execution ) | Each | 28360.00 |
| 339 | On-Load Change over switch40 Amps. (With enclosure ) | Each | 4084.00 |
| 340 | On-Load Change over switch63 Amps. (With enclosure ) | Each | 4427.00 |
| 341 | On-Load Change over switch100 Amps.(With enclosure ) | Each | 5258.00 |
| 342 | On-Load Change over switch125 Amps. .(With enclosure ) | Each | 7420.00 |
| 343 | On-Load Change over switch160 Amps. .(With enclosure ) | Each | 9016.00 |
| 344 | On-Load Change over switch200 Amps. .(With enclosure ) | Each | 9946.00 |
| 345 | On-Load Change over switch320 Amps. .(With enclosure ) | Each | 14809.00 |
| 346 | On-Load Change over switch400 Amps. .(With enclosure ) | Each | 20476.00 |
| 347 | On-Load Change over switch630 Amps. .(With enclosure ) | Each | 23498.00 |
| 348 | On-Load Change over switch800 Amps. .(With enclosure ) | Each | 33349.00 |
| 349 | AutomaticTransfer Switch100 Amp (open execution ) | Each | 23824.00 |
| 350 | AutomaticTransfer Switch160 Amp (open execution) | Each | 30835.00 |
| 351 | AutomaticTransfer Switch200 Amp (open execution) | Each | 38124.00 |
| 352 | AutomaticTransfer Switch315 Amp (open execution) | Each | 45126.00 |
| 353 | AutomaticTransfer Switch400 Amp (open execution) | Each | 55294.00 |
| 354 | AutomaticTransfer Switch630 Amp (open execution) | Each | 68263.00 |
| 355 | AutomaticTransfer Switch100 Amp (with enclosure ) | Each | 26073.00 |
| 356 | AutomaticTransfer Switch160 Amp (with enclosure ) | Each | 33079.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 357 | AutomaticTransfer Switch200 Amp (with enclosure ) | Each | 40368.00 |
| 358 | AutomaticTransfer Switch315 Amp (with enclosure ) | Each | 47379.00 |
| 359 | AutomaticTransfer Switch400 Amp (with enclosure ) | Each | 59644.00 |
| 360 | AutomaticTransfer Switch630 Amp (with enclosure ) | Each | 72608.00 |
| 361 | 25 Amps, Double Pole (DP) | Each | 670.00 |
| 362 | 40 Amps, Double Pole (DP) | Each | 909.00 |
| 363 | 25 Amps, Four Pole (FP) | Each | 1170.00 |
| 364 | 40 Amps, Four Pole (FP) | Each | 1774.00 |
| 365 | i) 32 Amps | Each | 1257.00 |
| 366 | i) 63 Amps | Each | 1679.00 |
| 367 | i) 100 Amps | Each | 3170.00 |
| 368 | i) 125 Amps | Each | 3492.00 |
| 369 | i) 32 Amps | Each | 1670.00 |
| 370 | i) 63 Amps | Each | 2083.00 |
| 371 | i) 100 Amps | Each | 3601.00 |
| 372 | i) 125 Amps | Each | 3923.00 |
| 373 | i) 32 Amps | Each | 1453.00 |
| 374 | i) 63 Amps | Each | 1944.00 |
| 375 | i) 100 Amps | Each | 3405.00 |
| 376 | i) 125 Amps | Each | 4019.00 |
| 377 | i) 160 Amps | Each | 5184.00 |
| 378 | i) 200 Amps | Each | 5436.00 |
| 379 | i) 250 Amps | Each | 6393.00 |
| 380 | i) 320 Amps | Each | 8420.00 |
| 381 | i) 400 Amps | Each | 10003.00 |
| 382 | i) 630 Amps | Each | 15896.00 |
| 383 | i) 32 Amps | Each | 2157.00 |
| 384 | i) 63 Amps | Each | 2549.00 |
| 385 | i) 100 Amps | Each | 4593.00 |
| 386 | i) 125 Amps | Each | 4936.00 |
| 387 | i) 160 Amps | Each | 6776.00 |
| 388 | i) 200 Amps | Each | 7089.00 |
| 389 | i) 250 Amps | Each | 7811.00 |
| 390 | i) 320 Amps | Each | 9968.00 |
| 391 | i) 400 Amps | Each | 11386.00 |
| 392 | i) 630 Amps | Each | 18923.00 |
| 393 | i) $0.75 / 1.0 / 2.0 / 3.0 / 5.0 / 7.5 \mathrm{HP}$ Strater | Each | 1079.00 |
| 394 | ii) 10 HP Strater | Each | 1166.00 |
| 395 | i) 10.0 HP Strater | Each | 4001.00 |
| 396 | ii) 12.5 / 15.0 HP Strater | Each | 4175.00 |
| 397 | iii) 20 HP Strater | Each | 4871.00 |
| 398 | iv) 25 HP Strater | Each | 4958.00 |
| 399 | v) 30 HP Strater | Each | 6350.00 |
| 400 | vi) 35 HP Strater | Each | 7785.00 |
| 401 | vii) 50 HP Strater | Each | 11830.00 |
| 402 | viii) 60 HP Strater | Each | 16961.00 |
| 403 | ix) 75 HP Strater | Each | 19136.00 |
| 404 | 20 Amp. to 32 AmpHBC Fuses | Each | 35.00 |
| 405 | 36 Amp to 63 AmpHBC Fuses | Each | 55.00 |
| 406 | 80 Amp to 125 AmpHBC Fuses | Each | 122.00 |
| 407 | 160 Amp to 250 AmpHBC Fuses | Each | 183.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 408 | 300 Amp to 315 AmpHBC Fuses | Each | 257.00 |
| 409 | 400 Amp to 500 AmpHBC Fuses | Each | 548.00 |
| 410 | 630 Amp HBC Fuses | Each | 1048.00 |
| 411 | 20 Amp. to 100 AmpHBC Fuses din type | Each | 161.00 |
| 412 | 125 Amp to 160 AmpHBC Fuses din type | Each | 178.00 |
| 413 | 200 Amp to 315 AmpHBC Fuses din type | Each | 348.00 |
| 414 | 350 Amp to 400 AmpHBC Fuses din type | Each | 418.00 |
| 415 | 425 Amp to 630 AmpHBC Fuses din type | Each | 609.00 |
| 416 | porecelain rewireable fuse unit $16 \mathrm{Amps} . / 240$ Volts | Each | 24.00 |
| 417 | porecelain rewireable fuse unit 16 Amps./415 Volts or $32 \mathrm{Amps} / 240$ Volts | Each | 33.00 |
| 418 | porecelain rewireable fuse unit $32 \mathrm{Amps} / 415$ Volts | Each | 68.00 |
| 419 | porecelain rewireable fuse unit $63 \mathrm{Amps} / 415$ Volts | Each | 106.00 |
| 420 | porecelain rewireable fuse unit $100 \mathrm{Amps} / 415$ Volts | Each | 217.00 |
| 421 | porecelain rewireable fuse unit $200 \mathrm{Amps} / 415$ Volts | Each | 618.00 |
| 422 | porecelain rewireable fuse unit $300 \mathrm{Amps} / 415$ Volts | Each | 739.00 |
| 423 | 32 AMP 440/500 VOLTS (BUSBAR ) 4 way | Each | 507.00 |
| 424 | 60/63 AMP 440/500 VOLTS (BUSBAR ) 4 way | Each | 991.00 |
| 425 | 100 AMP 440/500 VOLTS (BUSBAR ) 4 way | Each | 1476.00 |
| 426 | 200 AMP 440/500 VOLTS (BUSBAR ) 4 way | Each | 2650.00 |
| 427 | 300 AMP 440/500 VOLTS (BUSBAR ) 4 way | Each | 3166.00 |
| 428 | 400 AMP 440/500 VOLTS (BUSBAR ) 4 way | Each | 3484.00 |
| 429 | 500 AMP 440/500 VOLTS (BUSBAR ) 4 way | Each | 4675.00 |
| 430 | MCCB 25kA Current Rating -25 to100 Amps \& 70\% -100\% adjustable | Each | 3595.00 |
| 431 | MCCB 25kA Current Rating -125 Amps \& 70\% -100\% adjustable | Each | 4543.00 |
| 432 | MCCB 25kA Current Rating -160 Amps \& 70\% -100\% adjustable | Each | 6339.00 |
| 433 | MCCB 25kA Current Rating -200 Amps \& 70\% -100\% adjustable | Each | 6244.00 |
| 434 | MCCB 35kA Current Rating -160 Amps \& Adjustable: 70\% -100\% thermal \& 5-10 times magnetic setting | Each | 10146.00 |
| 435 | MCCB 35kA Current Rating -200 Amps \& Adjustable: 70\% -100\% thermal \& 5-10 times magnetic setting | Each | 10481.00 |
| 436 | MCCB 35kA Current Rating -250 Amps \& Adjustable: 70\% -100\% thermal \& 5-10 times magnetic setting | Each | 12961.00 |
| 437 | MCCB 35kA Current Rating -315 Amps \& Adjustable: 70\% -100\% thermal \& 5-10 times magnetic setting | Each | 15216.00 |
| 438 | MCCB 35kA Current Rating -400 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 15216.00 |
| 439 | MCCB 35kA Current Rating -500/630 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 16906.00 |
| 440 | MCCB 35kA Current Rating -800 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 20287.00 |
| 441 | MCCB 50kA Current Rating -400 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 16346.00 |
| 442 | MCCB 50kA Current Rating -500/630 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 18597.00 |
| 443 | MCCB 50kA Current Rating -800 Amps \& Adjustable: 70\% -100\% thermal \& 4-10 times magnetic setting | Each | 21412.00 |
| 444 | Air Circuit Breaker (ACB) | Each | 0.00 |
| 445 | 630 Amp,manual,fixed |  | 53626.00 |
| 446 | 800 Amp,manual,fixed | Each | 55541.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 447 | 1000 Amp,manual,fixed | Each | 58414.00 |
| 448 | 1250 Amp, manual,fixed | Each | 82354.00 |
| 449 | 1600 Amp, manual,fixed | Each | 85705.00 |
| 450 | 2000 Amp, manual,fixed | Each | 97196.00 |
| 451 | 630 Amp,manual,drawout | Each | 89775.00 |
| 452 | 800 Amp,manual,drawout | Each | 90733.00 |
| 453 | 1000 Amp,manual,drawout | Each | 95425.00 |
| 454 | 1250 Amp,manual,drawout | Each | 119125.00 |
| 455 | 1600 Amp,manual,drawout | Each | 128271.00 |
| 456 | 2000 Amp,manual,drawout | Each | 154940.00 |
| 457 | MCB SP 0.5 Amp to 4 Amp Rating | Each | 177.00 |
| 458 | MCB SP 6 Amp to 32 Amp Rating | Each | 121.00 |
| 459 | MCB SP For 40 Amps. Rating only. | Each | 249.00 |
| 460 | MCB SP 50 Amp to 63 Amp Rating | Each | 292.00 |
| 461 | MCB SPN 0.5 Amp to 5 Amp Rating | Each | 407.00 |
| 462 | MCB SPN 6 Amp to 32 Amp Rating | Each | 364.00 |
| 463 | MCB SPN For 40 Amps. Rating only. | Each | 503.00 |
| 464 | MCB SPN 50 Amp to 63 Amp Rating | Each | 570.00 |
| 465 | MCB DP 0.5 Amp to 5 Amp Rating | Each | 488.00 |
| 466 | MCB DP 6 Amp to 32 Amp Rating | Each | 407.00 |
| 467 | MCB DP For 40 Amps. Rating only. | Each | 546.00 |
| 468 | MCB DP 50 Amp to 63 Amp Rating | Each | 666.00 |
| 469 | MCB TP 0.5 Amp to 5 Amp Rating | Each | 670.00 |
| 470 | MCB TP 6 Amp to 32 Amp Rating | Each | 603.00 |
| 471 | MCB TP For 40 Amps. Rating only. | Each | 833.00 |
| 472 | MCB TP 50 Amp to 63 Amp Rating | Each | 967.00 |
| 473 | MCB TPN 0.5 Amp to 5 Amp Rating | Each | 905.00 |
| 474 | MCB TPN 6 Amp to 32 Amp Rating | Each | 790.00 |
| 475 | MCB TPN For 40 Amps. Rating only. | Each | 1039.00 |
| 476 | MCB TPN 50 Amp to 63 Amp Rating | Each | 1221.00 |
| 477 | MCB FP 0.5 Amp to 5 Amp Rating | Each | 991.00 |
| 478 | MCB FP 6 Amp to 32 Amp Rating | Each | 876.00 |
| 479 | MCB FP For 40 Amps. Rating only. | Each | 1116.00 |
| 480 | MCB FP 50 Amp to 63 Amp Rating | Each | 1288.00 |
| 481 | ISOLATOR SP Current rating upto 40 Amps. | Each | 153.00 |
| 482 | ISOLATOR SP Current rating upto 63 Amps . | Each | 172.00 |
| 483 | ISOLATOR DP Current rating upto 40 Amps. | Each | 239.00 |
| 484 | ISOLATOR DP Current rating upto 63 Amps . | Each | 302.00 |
| 485 | ISOLATOR TP Current rating upto 40 Amps. | Each | 436.00 |
| 486 | ISOLATOR TP Current rating upto 63 Amps . | Each | 474.00 |
| 487 | ISOLATOR FP Current rating upto 40 Amps. | Each | 531.00 |
| 488 | ISOLATOR FP Current rating upto 63 Amps . | Each | 551.00 |
| 489 | ISOLATOR FP Current rating upto 80 Amps . | Each | 718.00 |
| 490 | ISOLATOR FP Current rating upto 100 Amps . | Each | 718.00 |
| 491 | SPN MCB DB 2 way single door | Each | 144.00 |
| 492 | SPN MCB DB 4 way single door | Each | 350.00 |
| 493 | SPN MCB DB 4 way double door | Each | 603.00 |
| 494 | SPN MCB DB 6 way double door | Each | 709.00 |
| 495 | SPN MCB DB 8 way double door | Each | 814.00 |
| 496 | SPN MCB DB 12 way double door | Each | 1049.00 |
| 497 | SPN MCB DB 16 way double door | Each | 1302.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 498 | TPN MCB DB Metal Double Door 4 way (4+12) | Each | 1637.00 |
| 499 | TPN MCB DB Metal Double Door 6 way (4+18) | Each | 2073.00 |
| 500 | TPN MCB DB Metal Double Door 8 way (4+24) | Each | 2394.00 |
| 501 | TPN MCB DB Metal Double Door 4 way ( $8+12$ ) | Each | 1724.00 |
| 502 | TPN MCB DB Metal Double Door 6 way (8+18) | Each | 2131.00 |
| 503 | TPN MCB DB Metal Double Door 8 way (8+24) | Each | 2538.00 |
| 504 | TPN MCB DB Metal Double Door 12 way (8+36) | Each | 3433.00 |
| 505 | MCB TPDB For 9 Nos to 12 Nos M.C.B. per pole 40 TO 80 isolator | Each | 3739.00 |
| 506 | Vertical TPN MCB DB Metal Double Door 4 way (8+12) | Each | 3739.00 |
| 507 | Vertical TPN MCB DB Metal Double Door 6 way (8+24) | Each | 6153.00 |
| 508 | Vertical TPN MCB DB Metal Double Door 12 way (8+36) | Each | 8236.00 |
| 509 | Vertical TPN MCB DB Metal Double Door with MCCB 100A TP 10kA 4 way with MCCB | Each | 6244.00 |
| 510 | Vertical TPN MCB DB Metal Double Door with MCCB 100A TP 10kA 8 way with MCCB | Each | 6928.00 |
| 511 | Vertical TPN MCB DB Metal Double Door with MCCB 100A TP 10kA 12 way with MCCB | Each | 7924.00 |
| 512 | SPN PLUG SOCKET DB SPN 10 Amps | Each | 531.00 |
| 513 | SPN PLUG SOCKET DB SPN 20 Amps | Each | 546.00 |
| 514 | TPN PLUG SOCKET DB TP 20 Amps | Each | 1049.00 |
| 515 | TPN PLUG SOCKET DB TP 30 Amps | Each | 1460.00 |
| 516 | metal plug \& socket, 3 pin | Each | 0.00 |
| 517 | 10 Amps Plug only |  | 86.00 |
| 518 | 10 Amps socket only | Each | 86.00 |
| 519 | 20 Amps Plug only | Each | 96.00 |
| 520 | 20 Amps socket only | Each | 110.00 |
| 521 | RCBOs 2 pole 6 to 25 Amps, 30 mA sensitivity | Each | 1585.00 |
| 522 | RCBOs 2 pole $32 \mathrm{Amps}, 30 \mathrm{~mA}$ sensitivity | Each | 1661.00 |
| 523 | RCBOs 2 pole $40 \mathrm{Amps}, 30 \mathrm{~mA}$ sensitivity | Each | 1733.00 |
| 524 | RCBOs 2 pole $63 \mathrm{Amps}, 30 \mathrm{~mA}$ sensitivity | Each | 3213.00 |
| 525 | RCBOs 2 pole 6 to 25 Amps, 100 mA sensitivity | Each | 1657.00 |
| 526 | RCBOs 2 pole $32 \mathrm{Amps}, 100 \mathrm{~mA}$ sensitivity | Each | 1743.00 |
| 527 | RCBOs 2 pole $40 \mathrm{Amps}, 100 \mathrm{~mA}$ sensitivity | Each | 1796.00 |
| 528 | RCBOs 2 pole $63 \mathrm{Amps}, 100 \mathrm{~mA}$ sensitivity | Each | 3427.00 |
| 529 | RCBOs 4 pole 16 Amps, 30 mA sensitivity | Each | 2920.00 |
| 530 | RCBOs 4 pole 25-32 Amps, 30 mA sensitivity | Each | 3091.00 |
| 531 | RCBOs 4 pole 40 Amps, 30 mA sensitivity | Each | 3139.00 |
| 532 | RCBOs 4 pole $63 \mathrm{Amps}, 30 \mathrm{~mA}$ sensitivity | Each | 3733.00 |
| 533 | RCBOs 4 pole $16 \mathrm{Amps}, 100 / 300 \mathrm{~mA}$ sensitivity | Each | 3265.00 |
| 534 | RCBOs 4 pole 25-32 Amps, 100/300 mA sensitivity | Each | 3265.00 |
| 535 | RCBOs 4 pole 40 Amps , 100/300 mA sensitivity | Each | 3333.00 |
| 536 | RCBOs 4 pole 63 Amps , 100/300 mA sensitivity | Each | 3834.00 |
| 537 | $35 \times 35 \times 5 \mathrm{~mm}$ Iron clamps | Each | 35.00 |
| 538 | $25 \times 5 \mathrm{~mm} / 25 \times 25 \times 5 \mathrm{~mm}$ Iron clamps | 100 kg | 35.00 |
| 539 | Nut \& bolt of required size | 100 kg | 4.00 |
| 540 | Washers | 100 Each | 1.00 |
| 541 | Suppling and fixing of bacalite pandent holder | 100 Each | 19.00 |
| 542 | Suppling and fixing of bacalite Angle / Batten holder | Each | 16.00 |
| 543 | Suppling and fixing water tight bracket complete | Each | 0.00 |
| 544 | Suppling and fixing Bulk Head fitting ORDINARY | Each | 57.00 |
| 545 | Buzzer | Each | 42.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 546 | Ding Dong Bell | Each | 79.00 |
| 547 | Musical bell | Each | 189.00 |
| 548 | Remote / Cordless bell | Each | 397.00 |
| 549 | With 4 Way Indicator | Each | 1411.00 |
| 550 | With 6 Way Indicator | Each | 2117.00 |
| 551 | With 8 Way Indicator | Each | 2822.00 |
| 552 | Flexible Cable 23/.0076 Three Core | Each | 11.00 |
| 553 | Flexible Cable 40 / 0076 Three Core | per meter | 22.00 |
| 554 | 15 Watt 250 Volts Bulb | per meter | 9.00 |
| 555 | 25 Watt 250 Volts Bulb | Each | 9.00 |
| 556 | 40 Watt 250 Volts Bulb | Each | 10.00 |
| 557 | 60 Watt 250 Volts Bulb | Each | 10.00 |
| 558 | 100 Watt 250 Volts Bulb | Each | 11.00 |
| 559 | 200 Watt 250 Volts Bulb | Each | 17.00 |
| 560 | 500 Watt 250 Volts Bulb | Each | 57.00 |
| 561 | 1000 Watt 250 Volts Bulb | Each | 101.00 |
| 562 | $0 / 5$ Watt 250 Volts night Lamp | Each | 11.00 |
| 563 | 15 Watt 250 Volts coloured Lamp | Each | 11.00 |
| 564 | 5 Amps. 250 Volts $3 / 5$ pin ordinary | Each | 40.00 |
| 565 | 5 Amps. 250 Volts $3 / 5$ pin Flush type | Each | 19.00 |
| 566 | 15 Amps. 250 Volts $3 / 5$ pin ordinary | Each | 59.00 |
| 567 | 15 Amps. 250 Volts $3 / 5$ pin Flush type | Each | 57.00 |
| 568 | 10 Amps 250 Volt 3 Pin Modular type | Each | 113.00 |
| 569 | 20 Amps 250 Volt 3 Pin Modular type | Each | 184.00 |
| 570 | 6 Amps. 250 Volts 3 pin Flush type | Each | 41.00 |
| 571 | 16 Amps. 250 Volts 3 pin Flush type | Each | 52.00 |
| 572 | BALL SOCKET'S | Each | 21.00 |
| 573 | Round Globe 225 mm with brackets | Each | 0.00 |
| 574 | Small size | Each | 71.00 |
| 575 | Large size | Each | 141.00 |
| 576 | Ceiling Rose 3 Plate | Each | 19.00 |
| 577 | 5 Amps S.P. poracelain Base 250 Volt ordinary | Each | 40.00 |
| 578 | 15 Amps S.P. poracalane Base 250 Volt ordinary | Each | 59.00 |
| 579 | 5 Amps S.P. 250 Volt Deluxe ( Piano key type) | Each | 11.00 |
| 580 | 15 Amps S.P. 250 Volt Deluxe ( Piano key type) | Each | 33.00 |
| 581 | 5 Amps S.P. 250 Volt two way ( Piano key type ) | Each | 18.00 |
| 582 | 10 Amps S.P. 250 Volt Modular Switch | Each | 71.00 |
| 583 | 20 Amps S.P. 250 Volt Modular Switch | Each | 115.00 |
| 584 | 10 Amps S.P. 250 Volt Modular Switch 2 way | Each | 83.00 |
| 585 | 10 Amps S.P. 250 Volt Modular Switch Bell Push | Each | 83.00 |
| 586 | Angle iron $40 \mathrm{~mm} \times 40 \mathrm{~mm} \times 6 \mathrm{~mm}$ | Each | 83.00 |
| 587 | M.S. Sheet 1.6 mm thick | Kg | 41.00 |
| 588 | M.S. Sheet 3 mm thick | Kg | 41.00 |
| 589 | Locking arrangment with key | Kg | 88.00 |
| 590 | Condencer 2.5 mfd | Nos | 21.00 |
| 591 | Condencer 3.15 mfd | Each | 28.00 |
| 592 | Condencer 4.00 mfd | Each | 40.00 |
| 593 | Condencer 6.00 mfd | Each | 66.00 |
| 594 | Condencer 10.00 mfd | Each | 106.00 |
| 595 | Condencer 25.00 mfd | Each | 159.00 |
| 596 | Condencer 30.00 mfd | Each | 194.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :--- | :---: | :---: |
| 597 | Condencer 33.00 mfd | Each | 229.00 |
| 598 | Flourecent tube rod 4' X 40 watt | Each | 40.00 |
| 599 | Flourecent tube rod 4' X 36 watt | Each | 36.00 |
| 600 | Flourecent tube rod 2' X 20 watt | Each | 36.00 |
| 601 | Flourecent tube rod 2' X 18 watt | Each | 34.00 |
| 602 | M.V. Lamp 80 Watt | Each | 132.00 |
| 603 | M.V. Lamp 125 Watt | Each | 337.00 |
| 604 | M.V. Lamp 250 Watt | Each | 485.00 |
| 605 | M.V. Lamp 400 Watt | Each | 344.00 |
| 606 | S.V. Lamp 70 Watt | Each | 459.00 |
| 607 | S.V. Lamp 150 Watt | Each | 512.00 |
| 608 | S.V. Lamp 250 Watt | Each | 635.00 |
| 609 | S.V. Lamp 400 Watt | Each | 331.00 |
| 610 | S.V. Lamp 70 Watt ( son-T type ) | Each | 494.00 |
| 611 | S.V. Lamp 150 Watt ( son-T type ) | Each | 547.00 |
| 612 | S.V. Lamp 250 Watt ( son-T type) | Each | 670.00 |
| 613 | S.V. Lamp 400 Watt ( son-T type) | Each | 816.00 |
| 614 | M.H. Lamp 70 Watt (Single ended type) | Each | 882.00 |
| 615 | M.H. Lamp 150 Watt(Single ended type) | Each | 1103.00 |
| 616 | M.H. Lamp 250 Watt(Single ended type) | Each | 1169.00 |
| 617 | M.H. Lamp 400 Watt(Single ended type) | Each | 573.00 |
| 618 | M.H. Lamp70 Watt (Double ended type) | Each | 578.00 |
| 619 | M.H.Lamp150 Watt(Double ended type) | Each | 99.00 |
| 620 | C.F.L 5 Watt | Each | 110.00 |
| 621 | C.F.L 8 Watt | Each | 119.00 |
| 622 | C.F.L 11 Watt | Each | 128.00 |
| 623 | C.F.L 15 Watt | Each | 150.00 |
| 624 | C.F.L 18 Watt | Each | 198.00 |
| 625 | C.F.L 20 Watt | Each | 213.00 |
| 626 | C.F. 23 Watt | Each | 221.00 |
| 627 | C.F.L 26 Watt | Each | 353.00 |
| 628 | C.F.L 36 Watt | Each | 573.00 |
| 629 | C.F.L 45 Watt | Each | 662.00 |
| 630 | C.F.L 65 Watt | Each | 706.00 |
| 631 | C.F.L 85 Watt | Each | 71.00 |
| 632 | Helogen lamp 500 Watt | Each | 88.00 |
| 633 | Helogen lamp 1000 Watt | Each | 61.00 |
| 634 | Ball bearing 6201 | Each | 64.00 |
| 635 | Ball bearing 6202 | Each | 79.00 |
| 636 | Ball bearing 6203 | Each | 117.00 |
| 637 | Ball bearing 6204 | Each | 40.00 |
| 638 | resistanc type Fan regulator | Each | 167.00 |
| 639 | step type fan regulator | Each | 161.00 |
| 640 | dimmer / regulator 650 Watt | Each | 197.00 |
| 641 | dimmer / regulator 1000 Watt | Each | 220.00 |
| 642 | step type Modular fan regulator 450 Watt | 328.00 |  |
| 643 | step type Modular fan regulator 650 Watt | 481.00 |  |
| 644 | step type Modular fan regulator 1000 Watt | 6.00 |  |
| 645 | Woodne round block / 4"X4" sunmica board | 43.00 |  |
| 646 | swan neck of steel conduit | 11.00 |  |
| 647 | Flexible wire 23/.0076 | each |  |
|  |  |  |  |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 648 | Metalic Chain | mtr | 16.00 |
| 649 | Steel conduit for fixing of tube light \& down rod | mtr | 54.00 |
| 650 | Iron rod of 16 mm dia | mtr | 32.00 |
| 651 | Flat iron clamp for wooden beam | Kg | 36.00 |
| 652 | Rag bolt with nut ( for fixing of exhaust fan ) | each | 8.00 |
| 653 | Wooden board 12" X 18" | each | 65.00 |
| 654 | Wooden board 12" X 18" | each | 65.00 |
| 655 | switch 5 Amps F/T | each | 10.00 |
| 656 | lamp holder | each | 0.00 |
| 657 | Air Filters | each | 69.00 |
| 658 | Oil | Each | 231.00 |
| 659 | Grease | 1000 Gms | 420.00 |
| 660 | Caustic Soda | 1000 Gms | 58.00 |
| 661 | Enamel Pint | 1000 Gms | 231.00 |
| 662 | Copper wound choke 40 Watt VPIT | 1000 Gms | 167.00 |
| 663 | Starter 40 watts\& 250 V \& Holders | Each | 12.00 |
| 664 | Matalic chanel patti 4' with holder [Heavy duty] | Each | 52.00 |
| 665 | Copper PVC insulated wire | Each | 9.00 |
| 666 | Round Block /PVC Box 3"x3" | Mtr | 6.00 |
| 667 | watering pipe 19 mm dia 1.5 mtr long | Each | 77.00 |
| 668 | cover plate with hing and locking arrangement | meter | 221.00 |
| 669 | G.I. Earth plate $600 \mathrm{~mm} \times 600 \mathrm{~mm} \times 6 \mathrm{~mm}$ thick | Each | 1155.00 |
| 670 | Copper Earth plate $600 \mathrm{~mm} \times 600 \mathrm{~mm} \times 3 \mathrm{~mm}$ thick | Each | 5250.00 |
| 671 | Copper strip $32 \mathrm{~mm} \times 6 \mathrm{~mm}$ thick ( $1.705 \mathrm{Kg} / \mathrm{mtr}$ ) | Each | 525.00 |
| 672 | Copper Strip $25 \mathrm{~mm} \times 5 \mathrm{~mm}$ @1.15 kg/ mtr | kg | 525.00 |
| 673 | Copper tape $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ Thick ( $0.533 \mathrm{~kg} / \mathrm{meter}$ ) | kg | 525.00 |
| 674 | G.I. Band | kg | 22.00 |
| 675 | G.I. tube finial with singal prong at top including base etc. | Each | 294.00 |
| 676 | Copper tube finial 25 mm dia 300 mm long with singal prong at top including base. | Each | 998.00 |
| 677 | Steel or G.I. Rod 16 mm dia 2.5 mtr long | Each | 55.00 |
| 678 | Aluminium E.C.C. 4 Sq mm | meter | 2.00 |
| 679 | Aluminium E.C.C. 6 Sq mm | Meter | 4.00 |
| 680 | Aluminium E.C.C. 10 Sq mm | Meter | 6.00 |
| 681 | Aluminium E.C.C. 16 Sq mm | Meter | 9.00 |
| 682 | Aluminium E.C.C. 25 Sq mm | Meter | 15.00 |
| 683 | copper E.C.C. 6 Sq mm | Meter | 3227.00 |
| 684 | copper E.C.C. 10 Sq mm | 100Meter | 4292.00 |
| 685 | copper E.C.C. 16 Sq mm | 100Meter | 7172.00 |
| 686 | copper E.C.C. 25 Sq mm | 100Meter | 11363.00 |
| 687 | Copper Wire 4.00 mm dia | 100Meter | 525.00 |
| 688 | G.I. strip $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ Thick 125 mm long | kg | 47.00 |
| 689 | G.I. strip $38 \mathrm{~mm} \times 6 \mathrm{~mm}$ thick ( $1.475 \mathrm{Kg} / \mathrm{mtr}$ ) | Kg | 525.00 |
| 690 | G.l. pipe 38.1 mm 2.5 meter long | Kg | 163.00 |
| 691 | 300 mm Sweep (Wall Mounting fan) | meter | 1785.00 |
| 692 | 400 mm Sweep (Wall Mounting fan) | Each | 1890.00 |
| 693 | 300 mm Sweep (Cabin fan) | Each | 1811.00 |
| 694 | 400 mm Sweep (Cabin fan) | Each | 1945.00 |
| 695 | 225 mm Sweep ('Fresh Air Fan') | Each | 1024.00 |
| 696 | 305 mm Sweep('Fresh Air Fan') | Each | 1224.00 |
| 697 | 300 mm Sweep (Exhaust Fan heavy duty) | Each | 2573.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 698 | 380 mm Sweep (Exhaust Fan heavy duty) | Each | 2755.00 |
| 699 | 450 mm Sweep (Exhaust Fan heavy duty) | Each | 3901.00 |
| 700 | 400 mm Sweep (Pedestal fan) | Each | 2260.00 |
| 701 | 450 mm Sweep (Pedestal fan) | Each | 2116.00 |
| 702 | 500 mm Sweep (Pedestal fan) | Each | 2620.00 |
| 703 | Ceiling Fan 1200 mm Sweep | Each | 1717.00 |
| 704 | Ceiling Fan 1400 mm Sweep | Each | 1817.00 |
| 705 | SPN PLUG SOCKET DB SPN 10 Amps | Each | 531.00 |
| 706 | SPN PLUG SOCKET DB SPN 20 Amps | Each | 545.00 |
| 707 | Wall / floor mounted LT Panel primer coated with two coat of enamel paint \& provided with required gasket for dust/ vermin proof etc. | Each | 75.00 |
| 708 | Digital Ampere Metre with CTs with selector switch | KG | 1558.00 |
| 709 | Digital Volt Metre with selector switch \& HRC fuse | Per set | 1674.00 |
| 710 | Frequency Metre | Per set | 964.00 |
| 711 | Copper Bus bar strips with PVC sleeves | Each | 440.00 |
| 712 | Aluminium bus bar strips with PVC sleeves | KG | 139.00 |
| 713 | LED lamps | KG | 160.00 |
| 714 | fluorescent tube fitting 36/40 watt, rust resistant, stove enamelled paint, box type channel with cover, complete with electronic ballast (HF) complete duly wired (without tube rod) | Each | 683.00 |
| 715 | wooden round block with 'J' hook / Anchor hole fastners/hollow bow with rod | Each | 44.00 |
| 716 | steel conduit 19/20 dia 16 SWG | Each | 94.00 |
| 717 | metallic chain | Each | 50.00 |
| 718 | fluorescent tube fitting 36/40 watt, rust resistant, stove enamelled paint, CRCA sheet steel housing with white stove enamelled reflector complete with copper ballast complete duly wired (without tube rod) | meter | 429.00 |
| 719 | fluorescent Double tube fitting 36/40 watt, rust resistant, stove enamelled paint, CRCA sheet steel housing with opal acrylic diffuser and decorative end plates complete with copper ballast complete duly wired (without tube rod) | Each | 1349.00 |
| 720 | surface mounting mirror optics luminaires for single/twin $1 \times 36 / 40$ watt fluorescent lamp comprising of white powder coated CRCA sheet steel housing raw silk / navy brown / white colour M.S. low profile flat housing complete with all accessories i.e. electronic ballast (HF) duly wired (without tube rod) etc. | Each | 1775.00 |
| 721 | surface mounting mirror optics luminaires for single/twin $2 \times 40$ watt fluorescent lamp comprising of white powder coated CRCA sheet steel housing raw silk / navy brown / white colour M.S. low profile flat housing complete with all accessories i.e. electronic ballast (HF) duly wired (without tube rod) etc. | Each | 2714.00 |
| 722 | surface mounting mirror optics luminaires for single/twin $36 / 40$ watt fluorescent lamp comprising of white powder coated CRCA sheet steel housing raw silk / navy brown / white colour M.S. low profile flat housing complete with all accessories i.e. copper ballast duly wired (without tube rod) etc. | Each | 1418.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 723 | surface mounting mirror optics luminaires for single/twin $2 \times 40$ watt fluorescent lamp comprising of white powder coated CRCA sheet steel housing raw silk / navy brown / white colour M.S. low profile flat housing complete with all accessories i.e. copper ballast (HF) duly wired (without tube rod) etc. | Each | 1987.00 |
| 724 | street/ road light fitting complete with copper wound polyster choke, lamp holder,starter holder, starter duly wired, side entry with clear acrylic cover with fixing clamps (without tube rod) $1 \times 40$ Watt | Each | 866.00 |
| 725 | 20 mm dia G.I. pipe medium class | Each | 105.00 |
| 726 | street/ road light fitting complete with copper wound polyster choke, lamp holder,starter holder, starter duly wired, side entry with clear acrylic cover with fixing clamps (without tube rod) $2 \times 40 \mathrm{w}$ | meter | 1129.00 |
| 727 | Bulk head luminaire consisting of pressure die aluminium housing lamp holder, prismatic glass cover, rubber gasket and wire guard, delux type | Each | 368.00 |
| 728 | high pressure M.V. fitting, consisting of cast aluminium cotrol gear housing, highly polished reflector, highly transparent acrylic hinged cover, complete with taped polyster choke, capacitor, connector etc. suaitable for end mounting duly wired (without lamp) 80 watt | Each | 1680.00 |
| 729 | high pressure M.V. fitting, consisting of cast aluminium cotrol gear housing, highly polished reflector, highly transparent acrylic hinged cover, complete with taped polyster choke, capacitor, connector etc. suaitable for end mounting duly wired (without lamp) 125 watt | Each | 1678.00 |
| 730 | high pressure M.V. fitting, consisting of cast aluminium cotrol gear housing, highly polished reflector, highly transparent acrylic hinged cover, complete with taped polyster choke, capacitor, connector etc. suaitable for end mounting duly wired (without lamp) 250 watt | Each | 2783.00 |
| 731 | high pressure M.V. fitting, consisting of cast aluminium cotrol gear housing, highly polished reflector, highly transparent acrylic hinged cover, complete with taped polyster choke, capacitor, connector etc. suaitable for end mounting duly wired (without lamp) 400 watt | Each | 3549.00 |
| 732 | H.D. Sodium vapour fitting consisting of matallic cast aluminium alloy housing highly polished anodised aluminium reflector clear acrylic cover, gasket and equipped with accessories; such as ballast, condensor, ignitor, skirted ceramic lamp holder (without lamp) 70 watt | Each | 1650.00 |
| 733 | H.D. Sodium vapour fitting consisting of matallic cast aluminium alloy housing highly polished anodised aluminium reflector clear acrylic cover, gasket and equipped with accessories; such as ballast, condensor, ignitor, skirted ceramic lamp holder (without lamp) 150 watt | Each | 2851.00 |
| 734 | H.D. Sodium vapour fitting consisting of matallic cast aluminium alloy housing highly polished anodised aluminium reflector clear acrylic cover, gasket and equipped with accessories; such as ballast, condensor, ignitor, skirted ceramic lamp holder (without lamp) 250 watt | Each | 3329.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 735 | H.D. Sodium vapour fitting consisting of matallic cast aluminium alloy housing highly polished anodised aluminium reflector clear acrylic cover, gasket and equipped with accessories; such as ballast, condensor, ignitor, skirted ceramic lamp holder (without lamp) 400 watt | Each | 4358.00 |
| 736 | H.P.Sodium vapour side road lighting/ main road lighting lantern consisting of single piece cast aluminium housing complete with all accessories suitable for tubular 70W /150W /250W/HPSV lamp pot type high purity ALGLAS coated electromechanically brightened anodized aluminium reflector/ with ripples embossing above the lamp, lamp holder, clear acrylic cover \& $3 / 5$ stainless steel toggle, ignitor \& ballast, condensor(without lamp) 70 watt | Each | 2041.00 |
| 737 | H.P.Sodium vapour side road lighting/ main road lighting lantern consisting of single piece cast aluminium housing complete with all accessories suitable for tubular 70W /150W /250W/HPSV lamp pot type high purity ALGLAS coated electromechanically brightened anodized aluminium reflector/ with ripples embossing above the lamp, lamp holder, clear acrylic cover \& $3 / 5$ stainless steel toggle, ignitor \& ballast, condensor(without lamp) 150 watt | Each | 3482.00 |
| 738 | H.P.Sodium vapour side road lighting/ main road lighting lantern consisting of single piece cast aluminium housing complete with all accessories suitable for tubular 70W /150W /250W/HPSV lamp pot type high purity ALGLAS coated electromechanically brightened anodized aluminium reflector/ with ripples embossing above the lamp, lamp holder, clear acrylic cover \& $3 / 5$ stainless steel toggle, ignitor \& ballast, condensor(without lamp) 250 watt | Each | 3917.00 |
| 739 | intergal type compact flood light fitting consisting of cast aluminium housing complete with all accessories ALGLAS coated aluminium reflector, lamp holder heat resisting toughned clear glass cover and mounting bracket with aiming disc <br> (150 watt) | Each | 2949.00 |
| 740 | intergal type compact flood light fitting consisting of cast aluminium housing complete with all accessories ALGLAS coated aluminium reflector, lamp holder heat resisting toughned clear glass cover and mounting bracket with aiming disc <br> (250 watt) | Each | 2995.00 |
| 741 | H.D. asymmetrical beam flood light fitting suitable for tubular single lamp consisting of cast aluminium housing 'ALGLAS coated aluminium faceted reflector assly tonghned glass cover, mounting bracket and aiming disc, seperate control gear box required for HPSV/M.H. Lamp (without lamp) 250Watt | Each | 4725.00 |
| 742 | H.D. asymmetrical beam flood light fitting suitable for tubular single lamp consisting of cast aluminium housing 'ALGLAS coated aluminium faceted reflector assly tonghned glass cover, mounting bracket and aiming disc, seperate control gear box required for HPSV/M.H. Lamp (without lamp) 400 Watt | Each | 6618.00 |
| 743 | integral type decorative post top lantern consisting of aluminium canopy opal acrylic bottom cover and cast aluminium spigot complete with all accessories and control gear box (without lamp) 125 watt | Each | 3043.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 744 | integral type decorative post top lantern consisting of aluminium canopy opal acrylic bottom cover and cast aluminium spigot complete with all accessories and control gear box (without lamp) 70 watt | Each | 3283.00 |
| 745 | integral mushroom type roto moulded/Diamond shaped roto moulded post top lantern, consisting of cast aluminium spigot complete with all accessories, lamp holder, control gear box( without lamp) 125 watt | Each | 3043.00 |
| 746 | integral mushroom type roto moulded/Diamond shaped roto moulded post top lantern, consisting of cast aluminium spigot complete with all accessories, lamp holder, control gear box ( without lamp) 70 watt | Each | 3193.00 |
| 747 | low watt surface mounting luminaires, made of white powder coated CRCA sheet steel housing with aluminium mirror reflector complete with control gear, wired upto terminal block on a detachable tray without lamp (2nos. 11 watt CFL) | Each | 1137.00 |
| 748 | low watt surface mounting luminaires, made of white powder coated CRCA sheet steel housing with aluminium mirror reflector complete with control gear, wired upto terminal block on a detachable tray without lamp (2nos. 18 watt CFL) | Each | 1148.00 |
| 749 | low watt surface mounting luminaires, made of white powder coated CRCA sheet steel housing with aluminium mirror reflector complete with control gear, wired upto terminal block on a detachable tray without lamp (2nos. 36 watt CFL) | Each | 2041.00 |
| 750 | wooden round block | Each | 26.00 |
| 751 | low watt surface/recess mounting luminaires, made of white powder coated CRCA sheet steel housing with aluminium mirror reflector complete with control gear, wired upto terminal block on a detachable tray without lamp (2nos. 36 watt CFL) | Each | 3062.00 |
| 752 | 2 nos. 11 watt CFL ( $295 \mathrm{~mm} \times 595 \mathrm{~mm}$ ) aluminium mirror reflector | Each | 1113.00 |
| 753 | 2 nos. 36 watt CFL ( $595 \mathrm{~mm} \times 595 \mathrm{~mm}$ ) aluminium darklight reflector | Each | 3089.00 |
| 754 | 2 no. 36 watt CFL ( $295 \mathrm{~mm} \times 595 \mathrm{~mm}$ ) aluminium mirror reflector | Each | 2303.00 |
| 755 | 3 Nos 36 watt CFL ( $595 \mathrm{~mm} \times 595 \mathrm{~mm}$ ) aluminium mirror reflector | Each | 3203.00 |
| 756 | 3 Nos 36 watt CFL ( $597 \mathrm{~mm} \times 597 \mathrm{~mm}$ ) aluminium darklight reflector | Each | 3953.00 |
| 757 | low watt surface / recessed mounting CFL down lighter luminaire with white powder coated aluminium cover with anodised aluminium reflector with necessary materials connection etc. complete as required (without lamp) CFL 1 X 10 / 13 / 18 watt | Each | 476.00 |
| 758 | low watt surface / recessed mounting CFL down lighter luminaire with white powder coated aluminium cover with anodised aluminium reflector with necessary materials connection etc. complete as required (without lamp) CFL 2 X 13 / 18 watt | Each | 693.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 759 | low watt CFL roadway / street light luminaire with epoxy powder coated sheet aluminium / steel housing with epoxy white powder coated CRCA sheet steel gear tray ,clear acrylic cover with necessary materials connection including mounting with GI pipe 32 mm OD, clamps on existing wall / pole etc. complete as required (without lamp) CFL $1 \times 9$ / 11 watt | Each | 834.00 |
| 760 | low watt CFL roadway / street light luminaire with epoxy powder coated sheet aluminium / steel housing with epoxy white powder coated CRCA sheet steel gear tray ,clear acrylic cover with necessary materials connection including mounting with GI pipe 32 mm OD, clamps on existing wall / pole etc. complete as required (without lamp) CFL 1 X 13 / 18 watt | Each | 888.00 |
| 761 | low watt CFL roadway / street light luminaire with epoxy powder coated sheet aluminium / steel housing with epoxy white powder coated CRCA sheet steel gear tray ,clear acrylic cover with necessary materials connection including mounting with GI pipe 32 mm OD, clamps on existing wall / pole etc. complete as required (without lamp) CFL $2 \times 11$ watt | Each | 964.00 |
| 762 | low watt CFL roadway / street light luminaire with epoxy powder coated sheet aluminium / steel housing with epoxy white powder coated CRCA sheet steel gear tray ,clear acrylic cover with necessary materials connection including mounting with GI pipe 32 mm OD, clamps on existing wall / pole etc. complete as required (without lamp) CFL $2 \times 18$ watt | Each | 1106.00 |
| 763 | low watt CFL roadway / street light luminaire with epoxy powder coated sheet aluminium / steel housing with epoxy white powder coated CRCA sheet steel gear tray ,clear acrylic cover with necessary materials connection including mounting with GI pipe 32 mm OD, clamps on existing wall / pole etc. complete as required (without lamp) CFL $1 \times 36$ watt | Each | 1106.00 |
| 764 | T- 5 lamp channel luminaire with plastic extruded housing with in-built electronic control gear with decorative end caps with necessary materials connection etc. complete as required (with lamp) T - 5 Lamp $1 \times 28$ watt | Each | 558.00 |
| 765 | T- 5 lamp channel luminaire with epoxy white powder coated CRCA sheet steel housing with reflector cover with necessary materials connection etc. complete as required (with lamp) T - 5 Lamp $1 \times 28$ watt | Each | 970.00 |
| 766 | Delux fresh air fan with louvers ( ventilating fan ) with self closing louvers of decorative PVC blades mounting square frame of approved maked complete ( 150 mm ) | Each | 859.00 |
| 767 | Delux fresh air fan with louvers ( ventilating fan ) with self closing louvers of decorative PVC blades mounting square frame of approved maked complete ( 200 mm ) | Each | 919.00 |
| 768 | Delux fresh air fan with louvers ( ventilating fan ) with self closing louvers of decorative PVC blades mounting square frame of approved maked complete ( 250 mm ) | Each | 1012.00 |
| 769 | cooler kit | Each | 257.00 |
| 770 | cooler fan 450mm ISI mark | Each | 1162.00 |
| 771 | cooler vertical pump | Each | 368.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 772 | cooler / A.C. MS angle iron stand including flat iron supports | Each | 33.00 |
| 773 | fluorescent Single tube fitting $36 / 40$ watt, rust resistant, stove enamelled paint, CRCA sheet steel housing with opal acrylic diffuser and decorative end plates complete with copper ballast complete duly wired (without tube rod) | Kg | 803.00 |
| 774 | step type Modular fan regulator upto 120 Watt | Each | 401.00 |
|  |  |  |  |
| ELECTRICAL EXTERNAL MATERIAL LIST |  |  |  |
| SNO. | Description of Item | Unit | Rate |
| 1 | Brass compression gland for $2 \times 6$ sq.mm 1.1 KV grade cable | 1 set | 29.00 |
| 2 | Brass compression gland for $2 \times 10$ sq.mm 1.1 KV grade cable | 1 set | 34.00 |
| 3 | Brass compression gland for $2 \times 16$ sq.mm 1.1 KV grade cable | 1 set | 58.00 |
| 4 | Brass compression gland for $2 \times 25$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 5 | Brass compression gland for $2 \times 35$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 6 | Brass compression gland for $2 \times 50$ sq.mm 1.1 KV grade cable | 1 set | 91.00 |
| 7 | Brass compression gland for $3 \times 10$ sq.mm 1.1 KV grade cable | 1 set | 58.00 |
| 8 | Brass compression gland for $3 \times 16$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 9 | Brass compression gland for $3 \times 25$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 10 | Brass compression gland for $3 \times 35$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 11 | Brass compression gland for $3 \times 50$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 12 | Brass compression gland for $3 \times 70$ sq.mm 1.1 KV grade cable | 1 set | 112.00 |
| 13 | Brass compression gland for $3 \times 95$ sq.mm 1.1 KV grade cable | 1 set | 112.00 |
| 14 | Brass compression gland for $3 \times 120$ sq.mm 1.1 KV grade cable | 1 set | 143.00 |
| 15 | Brass compression gland for $3 \times 150$ sq.mm 1.1 KV grade cable | 1 set | 188.00 |
| 16 | Brass compression gland for $3 \times 185$ sq.mm 1.1 KV grade cable | 1 set | 188.00 |
| 17 | Brass compression gland for $3 \times 225$ sq.mm 1.1 KV grade cable | 1 set | 227.00 |
| 18 | Brass compression gland for $3 \times 240$ sq.mm 1.1 KV grade cable | 1 set | 266.00 |
| 19 | Brass compression gland for $3 \times 300$ sq.mm 1.1 KV grade cable | 1 set | 266.00 |
| 20 | Brass compression gland for $31 / 2 \mathrm{x} \quad 25$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 21 | Brass compression gland for $31 / 2 \times 35$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 22 | Brass compression gland for $31 / 2 \times 50$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 23 | Brass compression gland for $31 / 2 \mathrm{x} \quad 70$ sq.mm 1.1 KV grade cable | 1 set | 112.00 |
| 24 | Brass compression gland for $31 / 2 \mathrm{x} 95 \mathrm{sq} . \mathrm{mm} 1.1 \mathrm{KV}$ grade cable | 1 set | 112.00 |
| 25 | Brass compression gland for $31 / 2 \times 120$ sq.mm 1.1 KV grade cable | 1 set | 143.00 |
| 26 | Brass compression gland for $31 / 2 \times 150$ sq.mm 1.1 KV grade cable | 1 set | 188.00 |
| 27 | Brass compression gland for $3112 \mathrm{x} \quad 185$ sq.mm 1.1 KV grade cable | 1 set | 223.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 28 | Brass compression gland for $31 / 2 \times 225$ sq.mm 1.1 KV grade cable | 1 set | 227.00 |
| 29 | Brass compression gland for $31 / 2 \times 240$ sq.mm 1.1 KV grade cable | 1 set | 266.00 |
| 30 | Brass compression gland for $31 / 2 \times 300$ sq.mm 1.1 KV grade cable | 1 set | 266.00 |
| 31 | Brass compression gland for $3 \times 10$ sq.mm 1.1 KV grade cable | 1 set | 58.00 |
| 32 | Brass compression gland for $4 \times 16$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 33 | Brass compression gland for $4 \times 25$ sq.mm 1.1 KV grade cable | 1 set | 75.00 |
| 34 | Brass compression gland for $4 \times 35 \mathrm{sq} . \mathrm{mm} 1.1 \mathrm{KV}$ grade cable | 1 set | 91.00 |
| 35 | Brass compression gland for $4 \times 50$ sq.mm 1.1 KV grade cable | 1 set | 91.00 |
| 36 | Aluminium lugs for 6 sq.mm cable | 1 set | 1.00 |
| 37 | Aluminium lugs for 10 sq.mm cable | 1 each | 2.00 |
| 38 | Aluminium lugs for 16 sq.mm cable | 1 each | 2.00 |
| 39 | Aluminium lugs for 25 sq.mm cable | 1 each | 3.00 |
| 40 | Aluminium lugs for 35 sq.mm cable | 1 each | 4.00 |
| 41 | Aluminium lugs for 50 sq.mm cable | 1 each | 6.00 |
| 42 | Aluminium lugs for 70 sq.mm cable | 1 each | 9.00 |
| 43 | Aluminium lugs for 95 sq.mm cable | 1 each | 10.00 |
| 44 | Aluminium lugs for 120 sq.mm cable | 1 each | 14.00 |
| 45 | Aluminium lugs for 150 sq.mm cable | 1 each | 18.00 |
| 46 | Aluminium lugs for 185 sq.mm cable | 1 each | 23.00 |
| 47 | Aluminium lugs for 225 sq.mm cable | 1 each | 32.00 |
| 48 | Aluminium lugs for 240 sq.mm cable | 1 each | 39.00 |
| 49 | Aluminium lugs for 300 sq.mm cable | 1 each | 55.00 |
| 50 | Aluminium lugs for 400 sq.mm cable | 1 each | 68.00 |
| 51 | Aluminium ferrules for 6 sq.mm cable | 1 each | 1.00 |
| 52 | Aluminium ferrules for 10 sq.mm cable | 1 each | 1.00 |
| 53 | Aluminium ferrules for 16 sq.mm cable | 1 each | 2.00 |
| 54 | Aluminium ferrules for 25 sq.mm cable | 1 each | 2.00 |
| 55 | Aluminium ferrules for 35 sq.mm cable | 1 each | 3.00 |
| 56 | Aluminium ferrules for $50 \mathrm{sq} . \mathrm{mm}$ cable | 1 each | 5.00 |
| 57 | Aluminium ferrules for 70 sq.mm cable | 1 each | 8.00 |
| 58 | Aluminium ferrules for $95 \mathrm{sq} . \mathrm{mm}$ cable | 1 each | 9.00 |
| 59 | Aluminium ferrules for $120 \mathrm{sq} . \mathrm{mm}$ cable | 1 each | 12.00 |
| 60 | Aluminium ferrules for 150 sq.mm cable | 1 each | 17.00 |
| 61 | Aluminium ferrules for 185 sq.mm cable | 1 each | 21.00 |
| 62 | Aluminium ferrules for $225 \mathrm{sq} . \mathrm{mm}$ cable | 1 each | 29.00 |
| 63 | Aluminium ferrules for 240 sq.mm cable | 1 each | 33.00 |
| 64 | Aluminium ferrules for $300 \mathrm{sq} . \mathrm{mm}$ cable | 1 each | 49.00 |
| 65 | Aluminium ferrules for 400 sq.mm cable | 1 each | 65.00 |
| 66 | Out door cable jointing kit with cast resin compound with lugs for $2 \times 16$ sq.mm 1.1 KV grade cable | 1 set | 147.00 |
| 67 | Out door cable jointing kit with cast resin compound with lugs for $2 \times 25$ sq.mm 1.1 KV grade cable | 1 set | 155.00 |
| 68 | Out door cable jointing kit with cast resin compound with lugs for $2 \times 35$ sq.mm 1.1 KV grade cable | 1 set | 155.00 |
| 69 | Out door cable jointing kit with cast resin compound with lugs for $2 \times 50$ sq.mm 1.1 KV grade cable | 1 set | 155.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 70 | Out door cable jointing kit with cast resin compound with lugs for $3 \times 16$ sq.mm 1.1 KV grade cable | 1 set | 155.00 |
| 71 | Out door cable jointing kit with cast resin compound with lugs for $3 \times 25$ sq.mm 1.1 KV grade cable | 1 set | 155.00 |
| 72 | Out door cable jointing kit with cast resin compound with lugs for $3 \times 35$ sq.mm 1.1 KV grade cable | 1 set | 174.00 |
| 73 | Out door cable jointing kit with cast resin compound with lugs for $3 \times 50$ sq.mm 1.1 KV grade cable | 1 set | 174.00 |
| 74 | Out door cable jointing kit with cast resin compound with lugs for $3 \times 70$ sq.mm 1.1 KV grade cable | 1 set | 174.00 |
| 75 | Out door cable jointing kit with cast resin compound with lugs for $3 \times 95$ sq.mm 1.1 KV grade cable | 1 set | 186.00 |
| 76 | Out door cable jointing kit with cast resin compound with lugs for 3 x 120 sq.mm 1.1 KV grade cable | 1 set | 186.00 |
| 77 | Out door cable jointing kit with cast resin compound with lugs for 3 x 150 sq.mm 1.1 KV grade cable | 1 set | 186.00 |
| 78 | Out door cable jointing kit with cast resin compound with lugs for 3 x 185 sq.mm 1.1 KV grade cable | 1 set | 298.00 |
| 79 | Out door cable jointing kit with cast resin compound with lugs for 3 x 225 sq.mm 1.1 KV grade cable | 1 set | 298.00 |
| 80 | Out door cable jointing kit with cast resin compound with lugs for 3 x 240 sq.mm 1.1 KV grade cable | 1 set | 365.00 |
| 81 | Out door cable jointing kit with cast resin compound with lugs for 3 x 300 sq.mm 1.1 KV grade cable | 1 set | 365.00 |
| 82 | Out door cable jointing kit with cast resin compound with lugs for $31 / 2 \mathrm{x}$ 25 sq.mm 1.1 KV grade cable | 1 set | 155.00 |
| 83 | Out door cable jointing kit with cast resin compound with lugs for $31 / 2 \mathrm{X}$ 35 sq.mm 1.1 KV grade cable | 1 set | 174.00 |
| 84 | Out door cable jointing kit with cast resin compound with lugs for $3 \times 50$ sq.mm 1.1 KV grade cable | 1 set | 174.00 |
| 85 | Out door cable jointing kit with cast resin compound with lugs for $31 / 2 \mathrm{X}$ 70 sq.mm 1.1 KV grade cable | 1 set | 174.00 |
| 86 | Out door cable jointing kit with cast resin compound with lugs for $31 / 2 \mathrm{X}$ 95 sq.mm 1.1 KV grade cable | 1 set | 186.00 |
| 87 | Out door cable jointing kit with cast resin compound with lugs for $31 / 2 \mathrm{x}$ 120 sq.mm 1.1 KV grade cable | 1 set | 186.00 |
| 88 | Out door cable jointing kit with cast resin compound with lugs for $31 / 2 \mathrm{x}$ 150 sq.mm 1.1 KV grade cable | 1 set | 186.00 |
| 89 | Out door cable jointing kit with cast resin compound with lugs for $31 / 2 \mathrm{x}$ 185 sq.mm 1.1 KV grade cable | 1 set | 298.00 |
| 90 | Out door cable jointing kit with cast resin compound with lugs for $31 / 2 \mathrm{x}$ 225 sq.mm 1.1 KV grade cable | 1 set | 365.00 |
| 91 | Out door cable jointing kit with cast resin compound with lugs for $31 / 2 \mathrm{x}$ 240 sq.mm 1.1 KV grade cable | 1 set | 365.00 |
| 92 | Out door cable jointing kit with cast resin compound with lugs for $31 / 2 \mathrm{x}$ 300 sq.mm 1.1 KV grade cable | 1 set | 365.00 |
| 93 | Out door cable jointing kit with cast resin compound with lugs for $4 \times 16$ sq.mm 1.1 KV grade cable | 1 set | 155.00 |
| 94 | Out door cable jointing kit with cast resin compound with lugs for $4 \times 25$ sq.mm 1.1 KV grade cable | 1 set | 155.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 95 | Out door cable jointing kit with cast resin compound with lugs for $4 \times 35$ sq.mm 1.1 KV grade cable | 1 set | 174.00 |
| 96 | Out door cable jointing kit with cast resin compound with lugs for $4 \times 50$ sq.mm 1.1 KV grade cable | 1 set | 174.00 |
| 97 | Straight through cable jointing kit with cast resin compound with ferrules for $2 \times 16$ sq.mm.1.1 KV grade cable | 1 set | 372.00 |
| 98 | Straight through cable jointing kit with cast resin compound with ferrules for $2 \times 25$ sq.mm.1.1 KV grade cable | 1 set | 372.00 |
| 99 | Straight through cable jointing kit with cast resin compound with ferrules for $2 \times 35$ sq.mm.1.1 KV grade cable | 1 set | 405.00 |
| 100 | Straight through cable jointing kit with cast resin compound with ferrules for $2 \times 50$ sq.mm.1.1 KV grade cable | 1 set | 405.00 |
| 101 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 16$ sq.mm.1.1 KV grade cable | 1 set | 372.00 |
| 102 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 25$ sq.mm.1.1 KV grade cable | 1 set | 372.00 |
| 103 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 35$ sq.mm.1.1 KV grade cable | 1 set | 405.00 |
| 104 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 50 \mathrm{sq} . \mathrm{mm} .1 .1 \mathrm{KV}$ grade cable | 1 set | 405.00 |
| 105 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 70$ sq.mm.1.1 KV grade cable | 1 set | 507.00 |
| 106 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 95$ sq.mm.1.1 KV grade cable | 1 set | 515.00 |
| 107 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 120$ sq.mm.1.1 KV grade cable | 1 set | 555.00 |
| 108 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 150$ sq.mm.1.1 KV grade cable | 1 set | 555.00 |
| 109 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 185$ sq.mm.1.1 KV grade cable | 1 set | 872.00 |
| 110 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 225$ sq.mm.1.1 KV grade cable | 1 set | 1007.00 |
| 111 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 240$ sq.mm.1.1 KV grade cable | 1 set | 1118.00 |
| 112 | Straight through cable jointing kit with cast resin compound with ferrules for $3 \times 300$ sq.mm.1.1 KV grade cable | 1 set | 1208.00 |
| 113 | Straight through cable jointing kit with cast resin compound with ferrules for $31 / 2 \times 25$ sq.mm.1.1 KV grade cable | 1 set | 372.00 |
| 114 | Straight through cable jointing kit with cast resin compound with ferrules for $31 / 2 \times 35$ sq.mm.1.1 KV grade cable | 1 set | 405.00 |
| 115 | Straight through cable jointing kit with cast resin compound with ferrules for $31 / 2 \times 50$ sq.mm.1.1 KV grade cable | 1 set | 405.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 116 | Straight through cable jointing kit with cast resin compound with ferrules for $31 / 2 \times 70$ sq.mm.1.1 KV grade cable | 1 set | 515.00 |
| 117 | Straight through cable jointing kit with cast resin compound with ferrules for $31 / 2 \times 95$ sq.mm.1.1 KV grade cable | 1 set | 555.00 |
| 118 | Straight through cable jointing kit with cast resin compound with ferrules for $312 \times 120$ sq.mm.1.1 KV grade cable | 1 set | 555.00 |
| 119 | Straight through cable jointing kit with cast resin compound with ferrules for $312 \times 150$ sq.mm.1.1 KV grade cable | 1 set | 872.00 |
| 120 | Straight through cable jointing kit with cast resin compound with ferrules for $312 \times 185$ sq.mm.1.1 KV grade cable | 1 set | 1007.00 |
| 121 | Straight through cable jointing kit with cast resin compound with ferrules for $31 / 2 \times 225$ sq.mm.1.1 KV grade cable | 1 set | 1007.00 |
| 122 | Straight through cable jointing kit with cast resin compound with ferrules for $31 / 2 \times 240$ sq.mm.1.1 KV grade cable | 1 set | 1208.00 |
| 123 | Straight through cable jointing kit with cast resin compound with ferrules for $31 / 2 \times 300$ sq.mm.1.1 KV grade cable | 1 set | 1447.00 |
| 124 | Straight through cable jointing kit with cast resin compound with ferrules for $4 \times 16$ sq.mm.1.1 KV grade cable | 1 set | 372.00 |
| 125 | Straight through cable jointing kit with cast resin compound with ferrules for $4 \times 25$ sq.mm.1.1 KV grade cable | 1 set | 405.00 |
| 126 | Straight through cable jointing kit with cast resin compound with ferrules for $4 \times 35$ sq.mm.1.1 KV grade cable | 1 set | 405.00 |
| 127 | Straight through cable jointing kit with cast resin compound with ferrules for $4 \times 50$ sq.mm.1.1 KV grade cable | 1 set | 405.00 |
| 128 | Indoor cable jointing kit with cast resin compound with lugs for s11 KV grade XLPE cable for 3 core 70 sq.mm. | 1 set | 3114.00 |
| 129 | Indoor cable jointing kit with cast resin compound with lugs for s11 KV grade XLPE cable for 3 core 120 sq.mm. | 1 set | 3325.00 |
| 130 | Indoor cable jointing kit with cast resin compound with lugs for s11 KV grade XLPE cable for 3 core 240 sq.mm. | 1 set | 4142.00 |
| 131 | Indoor cable jointing kit with cast resin compound with lugs for s11 KV grade XLPE cable for 3 core 300 sq.mm. | 1 set | 4142.00 |
| 132 | Outdoor cable jointing kit with cast resin compound with lugs for s11 KV grade XLPE cable for 3 core 70 sq.mm. | 1 set | 4658.00 |
| 133 | Outdoor cable jointing kit with cast resin compound with lugs for s11 KV grade XLPE cable for 3 core 120 sq.mm. | 1 set | 5730.00 |
| 134 | Outdoor cable jointing kit with cast resin compound with lugs for s11 KV grade XLPE cable for 3 core 240 sq.mm. | 1 set | 7009.00 |
| 135 | Outdoor cable jointing kit with cast resin compound with lugs for s11 KV grade XLPE cable for 3 core 300 sq.mm. | 1 set | 7702.00 |
| 136 | Straight through cable jointing kit with cast resin compound with ferrules for 11 KV grade XPLE cable for 3 core 70 sq.mm. | 1 set | 5333.00 |
| 137 | Straight through cable jointing kit with cast resin compound with ferrules for 11 KV grade XPLE cable for 3 core 120 sq.mm. | 1 set | 6206.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 138 | Straight through cable jointing kit with cast resin compound with ferrules for 11 KV grade XPLE cable for 3 core 240 sq.mm. | 1 set | 7070.00 |
| 139 | Straight through cable jointing kit with cast resin compound with ferrules for 11 KV grade XPLE cable for 3 core 300 sq.mm. | 1 set | 7136.00 |
| 140 | Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 70 sq.mm. | 1 set | 2335.00 |
| 141 | Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 120 sq.mm. | 1 set | 2712.00 |
| 142 | Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 240 sq.mm. | 1 set | 3070.00 |
| 143 | Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 300 sq.mm. | 1 set | 3070.00 |
| 144 | Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 70 sq. mm . | 1 set | 3658.00 |
| 145 | Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 120 sq.mm. | 1 set | 3927.00 |
| 146 | Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 240 sq.mm. | 1 set | 4150.00 |
| 147 | Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 300 sq.mm. | 1 set | 4150.00 |
| 148 | Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XPLE cable for 3 core 70 sq.mm. | 1 set | 6717.00 |
| 149 | Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XPLE cable for 3 core 120 sq.mm. | 1 set | 7832.00 |
| 150 | Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XPLE cable for 3 core 240 sq.mm. | 1 set | 8810.00 |
| 151 | Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XPLE cable for 3 core 300 sq.mm. | 1 set | 8810.00 |
| 152 | Indoor cable jointing kit with cast rasin compound lugs for 33 KV grade XLPE cable for 3 core 70 sq.mm. | 1 set | 4674.00 |
| 153 | Indoor cable jointing kit with cast rasin compound lugs for 33 KV grade XLPE cable for 3 core 120 sq.mm. | 1 set | 5544.00 |
| 154 | Indoor cable jointing kit with cast rasin compound lugs for 33 KV grade XLPE cable for 3 core 240 sq.mm. | 1 set | 7441.00 |
| 155 | Outdoor cable jointing kit with cast rasin compound lugs for 33 KV grade XLPE cable for 3 core 70 sq.mm. | 1 set | 12760.00 |
| 156 | Outdoor cable jointing kit with cast rasin compound lugs for 33 KV grade XLPE cable for 3 core 120 sq.mm. | 1 set | 13870.00 |
| 157 | Outdoor cable jointing kit with cast rasin compound lugs for 33 KV grade XLPE cable for 3 core 240 sq.mm. | 1 set | 15773.00 |
| 158 | Straight through cable jointing kit with cast rasin compound ferrules for 33 KV grade XLPE cable for 3 core 70 sq.mm. | 1 set | 16493.00 |
| 159 | Straight through cable jointing kit with cast rasin compound ferrules for 33 KV grade XLPE cable for 3 core 120 sq.mm. | 1 set | 18838.00 |
| 160 | Straight through cable jointing kit with cast rasin compound ferrules for 33 KV grade XLPE cable for 3 core 240 sq.mm. | 1 set | 22757.00 |
| 161 | Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 70 sq.mm. | 1 set | 5506.00 |
| 162 | Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 120 sq.mm. | 1 set | 7590.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 163 | Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 240 sq.mm. | 1 set | 8109.00 |
| 164 | Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 70 sq.mm. | 1 set | 8348.00 |
| 165 | Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 120 sq.mm. | 1 set | 9828.00 |
| 166 | Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 240 sq.mm. | 1 set | 11283.00 |
| 167 | Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 70 sq.mm. | 1 set | 13262.00 |
| 168 | Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 120 sq.mm. | 1 set | 16758.00 |
| 169 | Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 240 sq.mm. | 1 set | 23495.00 |
| 170 | Stay rod (1.8 M long, $19 / 20 \mathrm{~mm}$ dia.) with anchor plate $45 \mathrm{~cm} \times 45 \mathrm{~cm} \times$ 7.5 mm complete with thimble etc. | 1 set | 625.00 |
| 171 | Stay wire ( $7 / 4.00 \mathrm{~mm}$ dia.) | 1 kg | 50.00 |
| 172 | stay wire ( $7 / 3.15 \mathrm{~mm}$ dia.) | 1 kg | 50.00 |
| 173 | Turn buckle ( $20 \mathrm{~mm} \times 60 \mathrm{~cm}$ ) | 1 No. | 120.00 |
| 174 | Stain insulator | 1 each | 26.00 |
| 175 | Bow tightner | 1 No. | 126.00 |
| 176 | Shackle insulator ( $75 \mathrm{~mm} \times 90 \mathrm{~mm}$ ) with G.I bolts and nuts | 1 each | 38.00 |
| 177 | shackle insulator ( $100 \mathrm{~mm} \times 110 \mathrm{~mm}$ ) with G.I bolts and nuts | 1 each | 60.00 |
| 178 | pin insulator ( $100 \mathrm{~mm} \times 65 \mathrm{~mm}$ ) with G.I. spindle and nuts | 1 each | 38.00 |
| 179 | pin insulator ( $100 \mathrm{~mm} \times 80 \mathrm{~mm}$ ) with G.I. spindle and nuts | 1 each | 34.00 |
| 180 | MV horn gap lighting arrestor with pin insulator ( $100 \mathrm{~mm} \times 65 \mathrm{~mm}$ ), spindle and brass metal parts etc. | 1 set | 101.00 |
| 181 | Water tight switch 5 amps complete as required | 1 No. | 42.00 |
| 182 | $1.5 \mathrm{sq} . \mathrm{mm}$ twin core weather proof aluminium cable | 100 mtrs | 471.00 |
| 183 | Pulley of 50 mm dia | 1 No. | 59.00 |
| 184 | 15 amps aerial fuse complete with porcelain tube as required | 1 each | 23.00 |
| 185 | 30 amps aerial fuse complete with porcelain tube as required | 1 each | 31.00 |
| 186 | Clamps, bolts nuts etc. | 1 set | 84.00 |
| 187 | Stay clamp | 1 set | 67.00 |
| 188 | Brace ( $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron ) | 1 mtrs | 227.00 |
| 189 | Angle iron bracket ( $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ ) 65 cm long | 1 each | 92.00 |
| 190 | M.S rag bolts | 1 each | 7.00 |
| 191 | flat iron clamps ( $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ ) for G.I pipe | 1 each | 25.00 |
| 192 | Eye hook | 1 each | 13.00 |
| 193 | guy clamp | 1 each | 67.00 |
| 194 | nipple 50 mm dia | 1 each | 17.00 |
| 195 | G.I. plate ( $10 \mathrm{~cm} \times 10 \mathrm{~cm} \times 5 \mathrm{~mm}$ ) | 1 kg | 48.00 |
| 196 | G.I. pipe 20 mm dia ( light class ) | 100 mtrs | 6727.00 |
| 197 | G.I. pipe 32 mm dia. ( light class ) | 100 mtrs | 10450.00 |
| 198 | G.I pipe 50 mm dia. ( light class ) | 100 mtrs | 16216.00 |
| 199 | G.I pipe 80 mm dia. ( light class ) | 100 mtrs | 27267.00 |
| 200 | G.I pipe 100 mm dia. ( light class ) | 100 mtrs | 41081.00 |
| 201 | G.I bend 90 degree, 50 mm dia | 1 No. | 67.00 |
| 202 | Saddles | 100 nos | 48.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 203 | Iron screws $45 \mathrm{~mm} \times 6 \mathrm{~mm}$ | 100 Nos | 42.00 |
| 204 | D' iron clamp (with coach screws) | 1 each | 96.00 |
| 205 | Bricks second class as per CPWD specifications | 1000 Nos | 5250.00 |
| 206 | Sand | 1 cum | 525.00 |
| 207 | Bricks ballast | 1 cum | 200.00 |
| 208 | Excavation including refilling as required | 1 cum | 165.00 |
| 209 | Cement concrete 1:2:4 (1 cement:2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) | 1 cum | 2129.00 |
| 210 | Cement concrete 1:3:6 (1 cement:3 coarse sand : 6 graded stone aggregate 40 mm nominal size ) | 1 cum | 1789.00 |
| 211 | Cartage for brick ballast | 1 cum | 92.00 |
| 212 | Strain insulator 11 kv | 1 No. | 38.00 |
| 213 | Strain insulator 33 kv | 1 No. | 66.00 |
| 214 | 11 KV pin insulator with pin washers and nuts | 1 set | 256.00 |
| 215 | 11 KV disc insulator | 1 set | 726.00 |
| 216 | Galvanised insulator hardware fitting ball and socket type with strain clamps, bolts, nuts and washers | 1 set | 151.00 |
| 217 | 33 KV pin insulator with pin washers and nuts | 1 set | 812.00 |
| 218 | Galvanised insulator hardware fitting ball and socket type with strain clamps bolts, nuts and washers for 3 Nos 11 KV disk insulator | 1 set | 300.00 |
| 219 | 3 Piece lightning arrestor set for 11 kv O.H lines complete with G.I clamps bolts and nuts with washers | 1 set | 2703.00 |
| 220 | single piece lightning arrestor set for 33 kv O.H lines complete with G.I clamps, bolts, and nuts with washers | 1 set | 27027.00 |
| 221 | $100 \mathrm{~mm} \times 50 \mathrm{~mm}$ channel iron ( $9.56 \mathrm{~kg} / \mathrm{mtr}$ ) | 1 kg | 36.00 |
| 222 | $75 \mathrm{~mm} \times 40 \mathrm{~mm}$ channel iron ( $7.14 \mathrm{~kg} / \mathrm{mtr}$ ) | 1 kg | 36.00 |
| 223 | $50 \mathrm{~mm} \times 6 \mathrm{~mm}$ flat iron | 1 kg | 36.00 |
| 224 | $16 \mathrm{~mm} \times 50 \mathrm{~mm}$ bolts and nuts with washers | 1 set | 7.00 |
| 225 | $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron | 1 kg | 36.00 |
| 226 | $16 \mathrm{~mm} \times 40 \mathrm{~mm}$ bolts and nuts with washers | 1 set | 6.00 |
| 227 | $16 \mathrm{~mm} \times 125 \mathrm{~mm}$ bolts and nuts with washers | 1 set | 25.00 |
| 228 | $16 \mathrm{~mm} \times 150 \mathrm{~mm}$ bolts and nuts with washers | 1 set | 29.00 |
| 229 | $65 \mathrm{~mm} \times 65 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron | 1 kg | 36.00 |
| 230 | $40 \mathrm{~mm} \times 3 \mathrm{~mm}$ flat iron | 1 kg | 36.00 |
| 231 | $35 \mathrm{~mm} \times 35 \mathrm{~mm} \times 6 \mathrm{~mm}$ angle iron | 1 kg | 36.00 |
| 232 | G.I. strap for shackle insulator | 1 No. | 30.00 |
| 233 | $50 \mathrm{~mm} \times 8 \mathrm{~mm}$ flat iron | 1 kg | 36.00 |
| 234 | MS perforated cable tray $100 \times 50 \times 1.6 \mathrm{~mm}$ | 1 mtrs | 166.00 |
| 235 | MS perforated cable tra $150 \times 50 \times 1.6 \mathrm{~mm}$ | 1 mtrs | 208.00 |
| 236 | MS perforated cable tray $225 \times 50 \times 1.6 \mathrm{~mm}$ | 1 mtrs | 270.00 |
| 237 | MS perforated cable tray $300 \times 50 \times 1.6 \mathrm{~mm}$ | 1 mtrs | 338.00 |
| 238 | MS perforated cable tray $375 \times 50 \times 2 \mathrm{~mm}$ | 1 mtrs | 451.00 |
| 239 | MS perforated cable tray $450 \times 50 \times 2 \mathrm{~mm}$ | 1 mtrs | 529.00 |
| 240 | MS perforated cable tray $600 \times 50 \times 2 \mathrm{~mm}$ | 1 mtrs | 673.00 |
| 241 | MS perforated cable tray $300 \times 62.5 \times 2 \mathrm{~mm}$ | 1 mtrs | 383.00 |
| 242 | MS perforated cable tray $375 \times 62.5 \times 2 \mathrm{~mm}$ | 1 mtrs | 481.00 |
| 243 | MS perforated cable tray $450 \times 62.5 \times 2 \mathrm{~mm}$ | 1 mtrs | 554.00 |
| 244 | MS perforated cable tray $600 \times 62.5 \times 2 \mathrm{~mm}$ | 1 mtrs | 698.00 |
| 245 | MS perforated cable tray $750 \times 62.5 \times 2 \mathrm{~mm}$ | 1 mtrs | 780.00 |
| 246 | MS perforated cable tray $900 \times 62.5 \times 2 \mathrm{~mm}$ | 1 mtrs | 988.00 |
| 247 | MS perforated cable tray $600 \times 75 \times 2 \mathrm{~mm}$ | 1 mtrs | 682.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 248 | MS perforated cable tray $750 \times 75 \times 2 \mathrm{~mm}$ | 1 mtrs | 721.00 |
| 249 | MS perforated cable tray $900 \times 75 \times 2 \mathrm{~mm}$ | 1 mtrs | 865.00 |
| 250 | Connector $100 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 19.00 |
| 251 | Connector $150 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 19.00 |
| 252 | Connector $225 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 19.00 |
| 253 | Connector $300 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 19.00 |
| 254 | Connector $375 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 19.00 |
| 255 | Connector $450 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 19.00 |
| 256 | Connector $600 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 19.00 |
| 257 | Connector $300 \times 32.5 \times 2 \mathrm{~mm}$ | 1 No. | 26.00 |
| 258 | Connector $375 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 26.00 |
| 259 | Connector $450 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 26.00 |
| 260 | Connector $600 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 26.00 |
| 261 | Connector $750 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 26.00 |
| 262 | Connector $900 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 26.00 |
| 263 | Connector $600 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 32.00 |
| 264 | Connector $750 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 32.00 |
| 265 | Connector $900 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 32.00 |
| 266 | Bend $100 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 416.00 |
| 267 | Bend $150 \times 50 \times 1.6$ | 1 No. | 513.00 |
| 268 | Bend $225 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 541.00 |
| 269 | Bend $300 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 832.00 |
| 270 | Bend $375 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 902.00 |
| 271 | Bend $450 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 1058.00 |
| 272 | Bend $600 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 1338.00 |
| 273 | Bend $300 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 949.00 |
| 274 | Bend $375 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 962.00 |
| 275 | Bend $450 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1107.00 |
| 276 | Bend $600 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1396.00 |
| 277 | Bend $750 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1754.00 |
| 278 | Bend $900 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1975.00 |
| 279 | Bend $600 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 1442.00 |
| 280 | Bend $750 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 1715.00 |
| 281 | Bend $900 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 2046.00 |
| 282 | Reducer $100 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 249.00 |
| 283 | Reducer $150 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 305.00 |
| 284 | Reducer $225 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 405.00 |
| 285 | Reducer $300 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 578.00 |
| 286 | Reducer $375 \times 50 \times 2.0 \mathrm{~mm}$ | 1 No. | 686.00 |
| 287 | Reducer $450 \times 50 \times 2.0 \mathrm{~mm}$ | 1 No. | 747.00 |
| 288 | Reducer $600 \times 50 \times 2.0 \mathrm{~mm}$ | 1 No. | 1010.00 |
| 289 | Reducer $300 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 613.00 |
| 290 | Reducer $375 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 721.00 |
| 291 | Reducer $450 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 829.00 |
| 292 | Reducer $600 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1046.00 |
| 293 | Reducer $750 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1263.00 |
| 294 | Reducer $900 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1479.00 |
| 295 | Reducer $600 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 1016.00 |
| 296 | Reducer $750 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 1298.00 |
| 297 | Reducer $900 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 1515.00 |
| 298 | Tee $100 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 296.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 299 | Tee $150 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 464.00 |
| 300 | Tee $225 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 608.00 |
| 301 | Tee $300 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 748.00 |
| 302 | Tee $375 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 1014.00 |
| 303 | Tee $450 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 1190.00 |
| 304 | Tee $600 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 1514.00 |
| 305 | Tee $300 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 858.00 |
| 306 | Tee $375 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1081.00 |
| 307 | Tee $450 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1244.00 |
| 308 | Tee $600 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1568.00 |
| 309 | Tee $750 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1893.00 |
| 310 | Tee $900 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 2218.00 |
| 311 | Tee $600 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 1623.00 |
| 312 | Tee $750 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 1948.00 |
| 313 | Tee $900 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 2137.00 |
| 314 | Cross member $100 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 499.00 |
| 315 | Cross member $150 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 619.00 |
| 316 | Cross member $225 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 811.00 |
| 317 | Cross member $300 \times 50 \times 1.6 \mathrm{~mm}$ | 1 No. | 998.00 |
| 318 | Cross member $375 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 1371.00 |
| 319 | Cross member $450 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 1587.00 |
| 320 | Cross member $600 \times 50 \times 2 \mathrm{~mm}$ | 1 No. | 2019.00 |
| 321 | Cross member $300 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1221.00 |
| 322 | Cross member $375 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1442.00 |
| 323 | Cross member $450 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 1659.00 |
| 324 | Cross member $600 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 2092.00 |
| 325 | Cross member $750 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 2525.00 |
| 326 | Cross member $900 \times 62.5 \times 2 \mathrm{~mm}$ | 1 No. | 2956.00 |
| 327 | Cross member $600 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 2163.00 |
| 328 | Cross member $750 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 2596.00 |
| 329 | Cross member $900 \times 75 \times 2 \mathrm{~mm}$ | 1 No. | 3115.00 |
| 330 | Cable cover class EHV-type-I with peak size $450 \times 230 \times 50 \mathrm{~mm}$. | Each | 53.00 |
| 331 | Cable cover class EHV-type-I with peak size $600 \times 230 \times 50 \mathrm{~mm}$. | Each | 71.00 |
| 332 | Cable cover class HVP-type-I with peak size $300 \times 180 \times 40 \mathrm{~mm}$. | Each | 27.00 |
| 333 | Cable cover class HVP-type-II with peak size $450 \times 180 \times 40 \mathrm{~mm}$. | Each | 40.00 |
| 334 | Coble cover class HV-type-I flat size $300 \times 180 \times 40 \mathrm{~mm}$ | Each | 25.00 |
| 335 | Cable cover class HV-type-II flat size $450 \times 180 \times 40 \mathrm{~mm}$ | Each | 39.00 |
| 336 | Cable cover class LV-type-I flat size $250 \times 150 \times 40 \mathrm{~mm}$ | Each | 18.00 |
| 337 | Cable cover class LV-type-II flat size $300 \times 180 \times 40 \mathrm{~mm}$ | Each | 25.00 |
| 338 | Cable cover class LV-type-III flat size $450 \times 180 \times 40 \mathrm{~mm}$ | Each | 40.00 |
| 339 | High mast lighting system with 6 no. $2 \times 400 \mathrm{w}$ flood light fixture flood light fitting 250 watt each with all accessories 12.5 meter hight as per stantdard disegin mention in chapter 16.1 | Each | 262500.00 |
| 340 | High mast lighting system with 6 no. $2 \times 400 \mathrm{w}$ flood light fixture flood light fitting 250 watt each with all accessories 16.5 meter hight as per stantdard disegin mention in chapter 16.2 | Each | 330750.00 |
| 341 | 9 mtrs. High hot dipped galvanized octagonal poles with bottomof 200 mm A/F, top 100 mm , A/F made from 3 mm thick HT plate \& $290 \times 290 \times 16 \mathrm{~mm}$ base plate with 1500 mm long decorative sword type double arm bracket. | Each | 27300.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 342 | Suitable size \& type of foundation bolts, type M20x750mm 'J' type foundation bolts (EN8 grade) for item E 343 | Each | 210.00 |
| 343 | 9 mtrs . High hot galvanized octagonal poles with bottom of $155 \mathrm{~mm} \mathrm{~A} / \mathrm{F}$, top 70 mm A/F made from 3 mm thick HT plate \& $260 \times 260 \times 16 \mathrm{~mm}$ base plate with 1500 mm long decorative sword type double arm bracket. | Each | 19950.00 |
| 344 | Suitable size \& type of foundation bolts, type M20x750mm 'J' type foundation bolts (EN8 grade) FOR item E 345 | Each | 158.00 |
| 345 | 80 mm G.I POLE 6 meter hight with $30 \mathrm{~mm} \times 30 \mathrm{~mm} \times 2 \mathrm{~mm}$ padestal | each | 2625.00 |
| 346 | solar battery | each | 9450.00 |
| 347 | Battery charger with other accessories | each | 2100.00 |
| 348 | control panel with weather proof pole box | each | 8400.00 |
| 349 | solar fittings LED type and CFL type 18 to 20 watt (set of 2nos) | set | 3360.00 |
| 350 | Concrete 1:2:4 (1 cement : 2 sand : 4 metal 20 mm size) | cum | 3511.00 |
| 351 | Rail pole standard weight $52 \mathrm{~kg} / \mathrm{per}$ metre | Per Metre | 40.00 |
| 352 | Rail pole std. weight $26 \mathrm{~kg} / \mathrm{per}$ metre | Per Metre | 42.00 |
| 353 | Rail pole std. weight $21 \mathrm{~kg} / \mathrm{per}$ metre | Per Metre | 31.00 |
| 354 | R.S. Joist $100 \times 200-25.4 \mathrm{~kg} / \mathrm{per}$ metre | Per Metre | 42.00 |
| 355 | R.S. Joist $175 \times 90-19.3 \mathrm{~kg} / \mathrm{per}$ metre | Per Metre | 42.00 |
| 356 | R.S. Joist $150 \times 100-17 \mathrm{~kg} / \mathrm{per}$ metre | Per Metre | 42.00 |
| 357 | R.S. Joist $150 \times 80-14.9 \mathrm{~kg} / \mathrm{per}$ metre | Per Metre | 42.00 |
| 358 | R.S. Joist $125 \times 75-13 \mathrm{~kg} / \mathrm{per}$ metre | Per Metre | 42.00 |
| 359 | H -Beam $152 \times 152 \mathrm{~mm}$ std. Wt.-37.1kg/mtr | Per Metre | 42.00 |
| 360 | 410 SP-2-7.00 metre | Each | 6054.00 |
| 361 | 410 SP-5-7.50 metre | Each | 6486.00 |
| 362 | 410 SP-8-7.50 metre | Each | 8216.00 |
| 363 | 410 SP-11-8.00 metre | Each | 6775.00 |
| 364 | 410 SP-14-8.00 metre | Each | 8793.00 |
| 365 | 410 SP-17-8.50 metre | Each | 7207.00 |
| 366 | 410 SP-20-8.50 metre | Each | 9081.00 |
| 367 | 410 SP-23-8.50 metre | Each | 11459.00 |
| 368 | 410 SP-26-9.00 metre | Each | 7423.00 |
| 369 | 410 SP-29-9.00 metre | Each | 9802.00 |
| 370 | 410 SP-32-9.00 metre | Each | 11892.00 |
| 371 | 410 SP-35-9.50 metre | Each | 10090.00 |
| 372 | 410 SP-38-9.50 metre | Each | 12324.00 |
| 373 | 410 SP-41-10.00 metre | Each | 10523.00 |
| 374 | 410 SP-44-10.00 metre | Each | 12901.00 |
| 375 | 410 SP-47-10.00 metre | Each | 16721.00 |
| 376 | 410 SP-50-11.00 metre | Each | 11387.00 |
| 377 | 410 SP-53-11.00 metre | Each | 13982.00 |
| 378 | 410 SP-56-11.00 metre | Each | 18162.00 |
| 379 | 410 SP-59-12.00 metre | Each | 14991.00 |
| 380 | 410 SP-62-12.00 metre | Each | 19459.00 |
| 381 | 410 SP-65-12.00 metre | Each | 23351.00 |
| 382 | 410 SP-68-13.00 metre | Each | 21045.00 |
| 383 | 410 SP-71-13.00 metre | Each | 17586.00 |
| 384 | 410 SP-73-14.50 metre | Each | 23279.00 |
| 385 | 410 SP-76-14.50 metre | Each | 28180.00 |
| 386 | 410 SP-77-16.00 metre | Each | 25369.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 387 | 410 SP-80-16.00 metre | Each | 30775.00 |
| 388 | 410 SP-10 (Bend type) 8.00 metre | Each | 6256.00 |
| 389 | 410 SP-16 (Bend type) 8.50 metre | Each | 6616.00 |
| 390 | 410 SP-25 (Bend type) 9.00 metre | Each | 6832.00 |
| 391 | 410 SP-34 (Bend type) 9.50 metre | Each | 10076.00 |
| 392 | 410 SP-40 (Bend type) 10.00 metre | Each | 10508.00 |
| 393 | 410 SP-49 (Bend type) 11.00 metre | Each | 11373.00 |
| 394 | PCC pole 8 mtrs. Long 140 kg | Each | 1764.00 |
| 395 | PCC pole 9.1 mtrs. Long 272 kg | Each | 3455.00 |
| 396 | $0.03 \mathrm{sq} . \mathrm{in} / 20 \mathrm{sq} . \mathrm{mm}$ Alloy Aluminium Conductor | K.g | 197.00 |
| 397 | 0.04 sq.in/25 sq.mm Alloy Aluminium Conductor | K.g | 197.00 |
| 398 | 0.05 sq.in/30 sq.mm Alloy Aluminium Conductor | K.g | 197.00 |
| 399 | 0.075 sq.in/48 sq.mm Alloy Aluminium Conductor | K.g | 197.00 |
| 400 | ACSR 6/1- 2.11 mm dia with equivalent copper area (13Sq.mm or 0.02 Sq.inch with equivalent copper \& calculated Alu. Area 20.71 Sq.mm. | K.g | 171.00 |
| 401 | ACSR 6/1-2.36mm dia with equivalent copper area 16Sq.mm or 0.025 inches and calculated aluminium area 25.91 Sq.mm. | K.g | 171.00 |
| 402 | ACSR 6/1-2.59mm dia with equivalent with calculated copper area 0.03 inch (20.00 Sq.mm with calculated aluminium area 31.21 Sq.mm | K.g | 171.00 |
| 403 | ACSR 6/1-3.00mm dia with equivalent copper area 25Sqmm 0.04 inch calculated aluminium area 41.87 Sq.mm. | K.g | 171.00 |
| 404 | ACSR 6/1-3.35mm dia with equivalent copper area 0Sqmm. 0.05 inch calculated aluminium area $62.32 \mathrm{Sq} . \mathrm{mm}$. | K.g | 171.00 |
| 405 | ACSR 6/1- 3.66 mm dia with equivalent copper area 40 Sqmm 0.06 inch calculated aluminium area 62.32 sq.mm. | K.g | 171.00 |
| 406 | ACSR $6 / 1-3.99 \mathrm{~mm}$ dia with equivalent copper area 45 Sqmm 0.07 inch calculated aluminium area 74.07 Sq.mm | K.g | 171.00 |
| 407 | ACSR $6 / 1-4.09 \mathrm{~mm}$ dia with equivalent copper area 48 Sqmm 0.075 equivalent calculated Aluminium area 77.83 Sq.mm. | K.g | 142.00 |
| 408 | $25 \times 25$ guard insulator | Each | 16.00 |
| 409 | $37 \times 37$ guard insulator | Each | 21.00 |
| 410 | $50 \times 50$ guard insulator | Each | 25.00 |
| 411 | 4.00 Dia Gl wire | K.g | 69.00 |
| 412 | Cradle type | Each | 19.00 |
| 413 | Hexagonal type | Each | 14.00 |
| 414 | Ring type | Each | 12.00 |
| 415 | $20 \times 15 \times 15 \mathrm{Cms}$. | Each | 184.00 |
| 416 | Flat iron $40 \times 3 \mathrm{~mm}$ pole clamp | Each | 19.00 |
| 417 | Gl wire 4.0 mm dia | meter | 8.00 |
| 418 | PVC ins \& std Alu wire 10.0 sq mm | meter | 15.00 |
| 419 | PVC ins \& std Alu wire 16.0 sq mm | meter | 20.00 |
| 420 | $100 \mathrm{~mm} \times 50 \mathrm{~mm}(7.9 \mathrm{Kg} . / \mathrm{M})$ channel Iron | Kg | 8.00 |
| 421 | $50 \mathrm{~mm} \times 50 \mathrm{~mm} \times 6 \mathrm{~mm}$ ( $4.5 \mathrm{Kg} . / \mathrm{M}$ ) channel Iron | Kg | 36.00 |
| 422 | 50 mmx 6 mm Flat Iron | Kg | 36.00 |
| 423 | Nut Bolt $16 \mathrm{~mm} \times 50 \mathrm{~mm}$ | Set | 8.00 |
| 424 | 2.5 Sq.mm.(Heavy Duty) UNARMOURED 2 Core | 1000Meter | 42.00 |
| 425 | 4 Sq.mm.((Heavy Duty) UNARMOURED 2 Core | 1000Meter | 50.00 |
| 426 | 6 Sq.mm.(XLPE) UNARMOURED 2 Core | 1000Meter | 63.00 |
| 427 | 10 Sq.mm.(XLPE) UNARMOURED 2 Core | 1000Meter | 81.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 428 | 16 Sq.mm. (XLPE) UNARMOURED 2 Core | 1000Meter | 106.00 |
| 429 | 2.5 Sq.mm.(Heavy Duty) ARMOURED 2 Core | 1000Meter | 92.00 |
| 430 | 4 Sq.mm.(Heavy Duty) ARMOURED 2 Core | 1000Meter | 102.00 |
| 431 | 6 Sq.mm.(XLPE) ARMOURED 2 Core | 1000Meter | 123.00 |
| 432 | 10 Sq.mm.(XLPE) ARMOURED 2 Core | 1000Meter | 138.00 |
| 433 | 16 Sq.mm.(XLPE) ARMOURED 2 Core | 1000Meter | 161.00 |
| 434 | 6 Sq.mm. (XLPE) UNARMOURED 3 Core | 1000Meter | 79.00 |
| 435 | 10 Sq.mm. (XLPE) UNARMOURED 3 Core | 1000Meter | 103.00 |
| 436 | 16 Sq.mm. (XLPE) UNARMOURED 3 Core | 1000Meter | 134.00 |
| 437 | 25 Sq.mm(XLPE) UNARMOURED 3 Core | 1000Meter | 168.00 |
| 438 | 35 Sq.mm(XLPE) UNARMOURED 3 Core | 1000Meter | 214.00 |
| 439 | 50 Sq.mm(XLPE) UNARMOURED 3 Core | 1000Meter | 281.00 |
| 440 | 70 Sq.mm(XLPE) UNARMOURED 3 Core | 1000Meter | 390.00 |
| 441 | 95 Sq.mm.(XLPE) UNARMOURED 3 Core | 1000Meter | 496.00 |
| 442 | 6 Sq.mm.(XLPE) ARMOURED 3 Core | 1000Meter | 141.00 |
| 443 | 10 Sq.mm.(XLPE) ARMOURED 3 Core | 1000Meter | 161.00 |
| 444 | 16 Sq.mm.(XLPE) ARMOURED 3 Core | 1000Meter | 176.00 |
| 445 | 25 Sq.mm(XLPE) ARMOURED 3 Core | 1000Meter | 219.00 |
| 446 | 35 Sq.mm(XLPE) ARMOURED 3 Core | 1000Meter | 279.00 |
| 447 | 50 Sq.mm(XLPE) ARMOURED 3 Core | 1000Meter | 350.00 |
| 448 | 70 Sq.mm(XLPE) ARMOURED 3 Core | 1000Meter | 463.00 |
| 449 | 95 Sq.mm.(XLPE) ARMOURED 3 Core | 1000Meter | 574.00 |
| 450 | 25 Sq.mm(XLPE) UNARMOURED 3½ CORE | 1000Meter | 203.00 |
| 451 | $35 \mathrm{Sq} . \mathrm{mm}$ (XLPE) UNARMOURED $311 / 2$ CORE | 1000Meter | 248.00 |
| 452 | 50 Sq.mm(XLPE) UNARMOURED 3½ CORE | 1000Meter | 331.00 |
| 453 | 70 Sq.mm(XLPE) UNARMOURED $311 / 2$ CORE | 1000Meter | 454.00 |
| 454 | 95 Sq.mm.(XLPE) UNARMOURED $311 / 2$ CORE | 1000Meter | 580.00 |
| 455 | 120 Sq.mm. (XLPE) UNARMOURED 3112 CORE | 1000Meter | 721.00 |
| 456 | 150 Sq.mm. (XLPE) UNARMOURED 3112 CORE | 1000Meter | 870.00 |
| 457 | 185 Sq.mm. (XLPE) UNARMOURED 3112 CORE | 1000Meter | 1093.00 |
| 458 | 240 Sq.mm. (XLPE) UNARMOURED 3112 CORE | 1000Meter | 1416.00 |
| 459 | 300 Sq.mm. (XLPE) UNARMOURED 3112 CORE | 1000Meter | 1742.00 |
| 460 | 400 Sq.mm. (XLPE) UNARMOURED 3112 CORE | 1000Meter | 2222.00 |
| 461 | 25 Sq.mm (XLPE) ARMOURED 3112 CORE | 1000Meter | 258.00 |
| 462 | 35 Sq.mm(XLPE) ARMOURED 3½ CORE | 1000Meter | 308.00 |
| 463 | 50 Sq.mm(XLPE) ARMOURED 3112 CORE | 1000Meter | 403.00 |
| 464 | 70 Sq.mm(XLPE) ARMOURED 3112 CORE | 1000Meter | 533.00 |
| 465 | 95 Sq.mm. (XLPE) ARMOURED 3½ CORE | 1000Meter | 660.00 |
| 466 | 120 Sq.mm.(XLPE) ARMOURED 3½ CORE | 1000Meter | 832.00 |
| 467 | 150 Sq.mm.(XLPE) ARMOURED 3½ CORE | 1000Meter | 968.00 |
| 468 | 185 Sq.mm.(XLPE) ARMOURED 3½ CORE | 1000Meter | 1205.00 |
| 469 | 240 Sq.mm. (XLPE) ARMOURED 3½ CORE | 1000Meter | 1532.00 |
| 470 | 300 Sq.mm.(XLPE) ARMOURED 3½ CORE | 1000Meter | 1872.00 |
| 471 | 400 Sq.mm. (XLPE) ARMOURED 3½ CORE | 1000Meter | 2356.00 |
| 472 | 6 Sq.mm. (XLPE) UNARMOURED 4 CORE | 1000Meter | 89.00 |
| 473 | 10 Sq.mm. (XLPE) UNARMOURED 4 CORE | 1000Meter | 110.00 |
| 474 | 16 Sq.mm. (XLPE) UNARMOURED 4 CORE | 1000Meter | 158.00 |
| 475 | 25 Sq.mm(XLPE) UNARMOURED 4 CORE | 1000Meter | 191.00 |
| 476 | 35 Sq.mm(XLPE) UNARMOURED 4 CORE | 1000Meter | 254.00 |
| 477 | 50 Sq.mm(XLPE) UNARMOURED 4 CORE | 1000Meter | 340.00 |
| 478 | 70 Sq.mm(XLPE) UNARMOURED 4 CORE | 1000Meter | 457.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 479 | 95 Sq.mm.(XLPE) UNARMOURED 4 CORE | 1000Meter | 597.00 |
| 480 | 120 Sq.mm.(XLPE) UNARMOURED 4 CORE | 1000Meter | 749.00 |
| 481 | 150 Sq.mm.(XLPE) UNARMOURED 4 CORE | 1000Meter | 925.00 |
| 482 | 6 Sq.mm.(XLPE) ARMOURED 4 CORE | 1000Meter | 150.00 |
| 483 | 10 Sq.mm.(XLPE) ARMOURED 4 CORE | 1000Meter | 164.00 |
| 484 | 16 Sq.mm.(XLPE) ARMOURED 4 CORE | 1000Meter | 205.00 |
| 485 | 25 Sq.mm(XLPE) ARMOURED 4 CORE | 1000Meter | 251.00 |
| 486 | 35 Sq.mm(XLPE) ARMOURED 4 CORE | 1000Meter | 319.00 |
| 487 | 50 Sq.mm(XLPE) ARMOURED 4 CORE | 1000Meter | 414.00 |
| 488 | 70 Sq.mm(XLPE) ARMOURED 4 CORE | 1000Meter | 540.00 |
| 489 | 95 Sq.mm.(XLPE) ARMOURED 4 CORE | 1000Meter | 691.00 |
| 490 | 120 Sq.mm. (XLPE) ARMOURED 4 CORE | 1000Meter | 851.00 |
| 491 | 150 Sq.mm.(XLPE) ARMOURED 4 CORE | 1000Meter | 1031.00 |
| 492 | 50 Sq.mm (XLPE CABLE 11 KV GRADE) | 1000Meter | 1255.00 |
| 493 | 70 Sq.mm (XLPE CABLE 11 KV GRADE) | 1000Meter | 1408.00 |
| 494 | 95 Sq.mm. (XLPE CABLE 11 KV GRADE) | 1000Meter | 1544.00 |
| 495 | 50 Sq.mm (XLPE CABLE 33 KV GRADE) | 1000Meter | 1875.00 |
| 496 | 70 Sq.mm (XLPE CABLE 33 KV GRADE) | 1000Meter | 2159.00 |
| 497 | 95 Sq.mm. (XLPE CABLE 33 KV GRADE) | 1000Meter | 2230.00 |
| 498 | $3 \times 50$ sq.mm(M-seal push on kit 33 kV XLPE cableO.D. ternmination) | Each | 40386.00 |
| 499 | $3 \times 70$ to $3 \times 120$ sq.mm.(M-seal push on kit 33 kV XLPE cableO.D. ternmination) | Each | 44017.00 |
| 500 | $3 \times 50$ sq.mm( M-seal push on kit 33 kV XLPE cable I.D. ternmination) | Each | 16121.00 |
| 501 | $3 \times 70$ to $3 \times 120$ sq.mm.(M-seal push on kit 33 kV XLPE cable I.D. ternmination) | Each | 19272.00 |
| 502 | $3 \times 25,3 \times 35$ (M-seal push on kit 11 kV XLPE cable O.D. ternmination) | Each | 18517.00 |
| 503 | $3 \times 50,3 \times 70$ (M-seal push on kit 11 kV XLPE cable O.D. ternmination) | Each | 18911.00 |
| 504 | $3 \times 95$ (M-seal push on kit 11 kV XLPE cable O.D. ternmination) | Each | 19685.00 |
| 505 | $3 \times 25,3 \times 35$ ( M-seal push on kit 11 kV XLPE cable I.D. ternmination) | Each | 10287.00 |
| 506 | $3 \times 50,3 \times 70$ ( M-seal push on kit 11 kV XLPE cable I.D. ternmination) | Each | 10748.00 |
| 507 | $3 \times 95$ ( M-seal push on kit 11 kV XLPE cable I.D. ternmination) | Each | 12302.00 |
| 508 | $3 \times 50$ (Heat shr.jointg. kit 33 kV XLPE cable O.D. ternmination) | Each | 31512.00 |
| 509 | 3x70,95 (Heat shr.jointg. kit 33 kV XLPE cable O.D. ternmination) | Each | 32442.00 |
| 510 | $3 \times 120,185$ (Heat shr.jointg. kit 33 kV XLPE cable O.D. ternmination) | Each | 50645.00 |
| 511 | $3 \times 50$ (Heat shr.jointg. kit $33 \mathrm{kV} \mathrm{XLPE} \mathrm{cable} \mathrm{I.D}. \mathrm{ternmination)}$ | Each | 22336.00 |
| 512 | $3 \times 70,95$ (Heat shr.jointg. kit $33 \mathrm{kV} \mathrm{XLPE} \mathrm{cable} \mathrm{I.D}. \mathrm{ternmination)}$ | Each | 25933.00 |
| 513 | $3 \times 120,185$ (Heat shr.jointg. kit $33 \mathrm{kV} \mathrm{XLPE} \mathrm{cable} \mathrm{I.D}. \mathrm{ternmination)}$ | Each | 50645.00 |
| 514 | $3 \times 25,3 \times 35$ (Heat shr.jointg. kit 11 kV XLPE cableO.D. ternmination) | Each | 24405.00 |
| 515 | $3 \times 50,3 \times 70$ (Heat shr.jointg. kit 11 kV XLPE cableO.D. ternmination) | Each | 29271.00 |
| 516 | $3 \times 95$ (Heat shr.jointg. kit 11 kV XLPE cableO.D. ternmination) | Each | 29271.00 |
| 517 | $3 \times 25,3 \times 35$ (Heat shr.jointg. kit 11 kV XLPE cablel.D. ternmination) | Each | 14019.00 |
| 518 | $3 \times 50,3 \times 70$ (Heat shr.jointg. kit 11 kV XLPE cablel.D. ternmination) | Each | 18037.00 |
| 519 | $3 \times 95$ (Heat shr.jointg. kit 11 kV XLPE cablel.D. ternmination) | Each | 18037.00 |
| 520 | 10-50 sqmm $2 / 3 / 3 / 1 / 2$ core (id/od epoxy resin end termination) | Each | 468.00 |
| 521 | 70-120 sqmm $2 / 3 / 31 / 2 / 4$ core (id/od epoxy resin end termination) | Each | 627.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 522 | 150-300 sqmm2 / 3 / $311 / 2 / 4$ core (id/od epoxy resin end termination) | Each | 1042.00 |
| 523 | 350-500sqmm 3112 core (id/od epoxy resin end termination) | Each | 1468.00 |
| 524 | 10-50 sqmm 2 / 3 / $31 / 2 / 4$ core( Heat shr.jointg. kit 1.1 kV XLPE/HD cable O.D. ternmination) | Each | 6642.00 |
| 525 | $70-150$ sqmm $2 / 3 / 31 / 2 / 4$ core ( Heat shr.jointg. kit 1.1 kV XLPE/HD cable O.D. ternmination) | Each | 7736.00 |
| 526 | 150-300 sqmm 2 / 3 / $31 / 2$ / 4core ( Heat shr.jointg. kit 1.1 kV XLPE/HD cable O.D. ternmination) | Each | 9345.00 |
| 527 | 350-500 sqmm 2 / 3 / $31 / 2$ / 4core ( Heat shr.jointg. kit 1.1 kV XLPE/HD cable O.D. ternmination) | Each | 11328.00 |
| 528 | 10-50 sqmm 2 / 3 / 3½ / 4core(Heat shr.jointg. kit 1.1 kV XLPE/HD cable I.D. ternmination) | Each | 3498.00 |
| 529 | $70-150$ sqmm 2 / 3 / $31 / 2$ / 4core (Heat shr.jointg. kit 1.1 kV XLPE/HD cable I.D. ternmination) | Each | 4219.00 |
| 530 | 150-300 sqmm 2 / 3 / $31 / 2 / 4$ core (Heat shr.jointg. kit 1.1 kV XLPE/HD cable I.D. ternmination) | Each | 6842.00 |
| 531 | 350-500 sqmm 2 / 3 / $31 / 2 / 4$ core (Heat shr.jointg. kit 1.1 kV XLPE/HD cable I.D. ternmination) | Each | 7983.00 |
| 532 | 6-16 sqmm $2 / 3 / 3 ½ / 4 c o r e ~(P V C ~ s h e a t h e d ~ c a b l e / / X L P E ~ o f ~ 1.1 ~ k V ~$ grade:(I.D./O.D.)) | Each | 948.00 |
| 533 | 25-35 sqmm 2 / 3 / $312 / 2$ core (PVC sheathed cable//XLPE of 1.1 kV grade:(I.D./O.D.)) | Each | 1268.00 |
| 534 | 50-95 sqmm $2 / 3 / 31 / 2 / 4$ core (PVC sheathed cable//XLPE of 1.1 kV grade:(I.D./O.D.)) | Each | 1609.00 |
| 535 | 120-240 sqmm 2 / 3 / 3½ / 4core (PVC sheathed cable//XLPE of 1.1 kV grade:(I.D./O.D.)) | Each | 2670.00 |
| 536 | 300-350 sqmm 2 / 3 / 3½ / 4core (PVC sheathed cable//XLPE of 1.1 kV grade:(I.D./O.D.)) | Each | 3398.00 |
| 537 | 400-500 sqmm 2 / 3 / 3½ / 4core (PVC sheathed cable//XLPE of 1.1 kV grade:(I.D./O.D.)) | Each | 4913.00 |
| 538 | $6-16$ sqmm $2 / 3 / 31 / 2 / 4$ core(Heat shr.jointg. kit 1.1 kV XLPE/HD cable including lugs (I.D../O.D.)) | Each | 2491.00 |
| 539 | 25-35 sqmm $2 / 3 / 31 / 2 / 4$ core (Heat shr.jointg. kit 1.1 kV XLPE/HD cable including lugs (I.D../O.D.)) | Each | 3364.00 |
| 540 | $50-95$ sqmm $2 / 3 / 31 / 2 / 4$ core (Heat shr.jointg. kit 1.1 kV XLPE/HD cable including lugs (I.D../O.D.)) | Each | 4219.00 |
| 541 | $120-240$ sqmm $2 / 3 / 31 / 2 / 4$ core (Heat shr.jointg. kit 1.1 kV XLPE/HD cable including lugs (I.D../O.D.)) | Each | 6408.00 |
| 542 | 300-350 sqmm $2 / 3 / 3^{1 ⁄ 2} / 4$ core (Heat shr.jointg. kit 1.1 kV XLPE/HD cable including lugs (I.D../O.D.)) | Each | 12125.00 |
| 543 | 400-500 sqmm $2 / 3 / 3^{112} / 4$ core (Heat shr.jointg. kit 1.1 kV XLPE/HD cable including lugs (I.D../O.D.)) | Each | 12802.00 |
| 544 | Gland Size 22 mm suitable for cable $2,3,31 / 2$ \& $4 \times$ upto 6 Sq.mm | Each | 34.00 |
| 545 | Gland Size 22 mm suitable for cable $2,3,31 / 2,4 \times 10$ Sq.mm or $2 \times 16$ Sq.mm | Each | 39.00 |
| 546 | Gland size 28 mm for $3,4 \times 16$ Sq.mm | Each | 59.00 |
| 547 | Gland size 32 mm for $2,3,31 / 2,4 \times 25$ Sq.mm OR $2,3,31 / 2 \times 35$ Sq.mm OR $2,3 \times 50$ Sq.mm. | Each | 68.00 |
| 548 | Gland sixe $38 \mathrm{~mm} 31 / 2 \times 70$ Sq.mm, $3 \times 95$ Sq.mm | Each | 106.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 549 | $\begin{gathered} \text { Gland Size } 45 \mathrm{~mm} 3 / 3^{11 / 2} \times 120 \mathrm{Sq} . \mathrm{mm} \\ 31 / 2 \times 95 \mathrm{Sq} . \mathrm{mm} \\ 3 \times 150 \mathrm{Sq} . \mathrm{mm} . \end{gathered}$ | Each | 133.00 |
| 550 | Gland Size $50 \mathrm{~mm} 31 / 2 \times 150$ Sq.mm $3 \times 185$ Sq. mm | Each | 170.00 |
| 551 | Gland Size $57 \mathrm{~mm} 3 \times 225$ Sq.mm $31 / 2 \times 185$ Sq.mm | Each | 222.00 |
| 552 | Gland Size $70 \mathrm{~mm} 3 \times 240$ Sq.mm $31 / 2 \times 300$ Sq.mm | Each | 315.00 |
| 553 | Gland Size $82 \mathrm{~mm} 3112 \times 400$ Sq.mm | Each | 447.00 |
| 554 | Conductor Size- 2.5 to $6.00 \mathrm{Sq} . \mathrm{mm}$ | Each | 2.00 |
| 555 | Conductor Size-10.00 Sq.mm | Each | 2.00 |
| 556 | Conductor Size-16.00 Sq.mm | Each | 3.00 |
| 557 | Conductor Size- 25.00 Sq.mm | Each | 4.00 |
| 558 | Conductor Size- 35.00 Sq.mm | Each | 4.00 |
| 559 | Conductor Size-50.00 Sq.mm | Each | 7.00 |
| 560 | Conductor Size-70.00 Sq.mm | Each | 13.00 |
| 561 | Conductor Size- 95.00 Sq.mm | Each | 14.00 |
| 562 | Conductor Size-120.00 Sq.mm | Each | 20.00 |
| 563 | Conductor Size-150.00 Sq.mm | Each | 27.00 |
| 564 | Conductor Size-185.00 Sq.mm | Each | 34.00 |
| 565 | Conductor Size- 240.00 Sq.mm | Each | 56.00 |
| 566 | Conductor Size- 300.00 Sq.mm | Each | 80.00 |
| 567 | Conductor Size- 400.00 Sq.mm | Each | 117.00 |
| 568 | LUGS- 6 mm to 16 Sq.mm | Each | 4.00 |
| 569 | LUGS- 25 Sq.mm | Each | 6.00 |
| 570 | LUGS- 35 Sq.mm | Each | 8.00 |
| 571 | LUGS- 50 Sq.mm | Each | 13.00 |
| 572 | LUGS- 70 Sq.mm | Each | 20.00 |
| 573 | LUGS- 95 Sq.mm. | Each | 21.00 |
| 574 | LUGS-120 Sq.mm. | Each | 30.00 |
| 575 | LUGS-150 Sq.mm. | Each | 39.00 |
| 576 | LUGS-180 Sq.mm | Each | 47.00 |
| 577 | LUGS- 240 Sq.mm. | Each | 83.00 |
| 578 | LUGS- 300 Sq.mm. | Each | 116.00 |
| 579 | LUGS- 400 Sq.mm. | Each | 169.00 |
| 580 | Upto 16 Sq.mm Conductor Size (Aluminum Lugs Pin Type) | Each | 4.00 |
| 581 | Upto 25 Sq.mm Conductor Size (Aluminum Lugs Pin Type) | Each | 6.00 |
| 582 | 35 Sq.mm Conductor Size (Aluminum Lugs Pin Type) | Each | 8.00 |
| 583 | Upto 16 Sq.mm Conductor Size (Copper Lugs Pin Type) | Each | 11.00 |
| 584 | Upto 25 Sq.mm Conductor Size (Copper Lugs Pin Type) | Each | 23.00 |
| 585 | 35 Sq.mm Conductor Size (Copper Lugs Pin Type) | Each | 24.00 |
| 586 | Upto 16 Sq.mm Conductor Size (Copper Lugs Tube Type) | Each | 11.00 |
| 587 | Upto 25 Sq.mm Conductor Size (Copper Lugs Tube Type) | Each | 23.00 |
| 588 | 35 Sq.mm Conductor Size (Copper Lugs Tube Type) | Each | 24.00 |
| 589 | 50 Sq.mm. Conductor Size (Copper Lugs Tube Type) | Each | 32.00 |
| 590 | Nut Bolt $16 \times 45 \mathrm{~mm}$ | Each | 6.00 |
| 591 | Flat Iron $40 \times 3 \mathrm{~mm}$ | Kg | 28.00 |
| 592 | 25 kVA ( Aluminium wound) | Each | 58800.00 |
| 593 | 63 kVA ( Aluminium wound) | Each | 81900.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 594 | 100 kVA ( Aluminium wound) | Each | 100800.00 |
| 595 | 200 kVA ( Aluminium wound) | Each | 173250.00 |
| 596 | 200 kVA (Copper wound) | Each | 262500.00 |
| 597 | 315 kVA (Copper wound) | Each | 388500.00 |
| 598 | 500 kVA (Copper wound) | Each | 420000.00 |
| 599 | AB isolating switch assembly set gang operated suitable for 11/0.4 KV | SET | 5775.00 |
| 600 | AB isolating switch assembly set gang operated suitable for $33 / 0.4 \mathrm{KV}$ | SET | 12600.00 |
| 601 | 11 KV DO fuse assembly with brass part contact for 11/4.0 KV DP structure | SET | 1260.00 |
| 602 | 12 KV DO fuse assembly with brass part contact for $33 / 4.0 \mathrm{KV}$ DP structure | SET | 2940.00 |
| 603 | Dry chemical powder (DCP) type-5kg duly refiled and ready to use | Each | 2100.00 |
| 604 | ABC type duly refield and ready to used | each | 4305.00 |
| 605 | CO2 type duly refield and ready to used | Each | 6668.00 |
| 606 | Dry chemical powder (DCP) type-5kg refile only | Each | 420.00 |
| 607 | ABC type refill only | Each | 788.00 |
| 608 | Co2 type Refill only | Each | 525.00 |
| 609 | 4 bucket set with stand and sand | Each | 1575.00 |
| 610 | 10 kVA (core wound type) | Each | 31500.00 |
| 611 | 16 Kva (core wound type) | Each | 35700.00 |
| 612 | 25 kVA (core wound type) | Each | 42000.00 |
| 613 | For 63 KVA Transformer | Each | 12705.00 |
| 614 | For 100 KVA Transformer | Each | 13860.00 |
| 615 | For 200 KVA Transformer | Each | 23100.00 |
| 616 | $7 / 4.00 \mathrm{~mm}$ (7/8 SWG) | Kg | 65.00 |
| 617 | M.S. Nuts and Bolts | Kg | 47.00 |
| 618 | 25 Sqm (LT Cable Single) | Each | 24150.00 |
| 619 | 50 Sqm (LT Cable Single) | Each | 35700.00 |
| 620 | 120 Sqm (LT Cable Single) | Each | 88725.00 |
| 621 | 185 Sqm (LT Cable Single) | Each | 131250.00 |
| 622 | 200-100/5 Amp with complete accessories (11 KV C.Ts.) | Each | 8400.00 |
| 623 | 300-150/5 Amps with complete accessories (11 KV C.Ts.) | Each | 8400.00 |
| 624 | 500-250/5 Amps with complete accessories (11 KV C.Ts.) | Each | 9660.00 |
| 625 | 200-100/5 Amp with complete accessories ( 33 KV C.Ts.) | Each | 12180.00 |
| 626 | 300-150/5 Amps with complete accessories (33 KV C.Ts.) | Each | 12180.00 |
| 627 | 500-250/5 Amps with complete accessories (33 KV C.Ts.) | Each | 15225.00 |
| 628 | 11 KV Gapless, line type | Each | 3911.00 |
| 629 | 33 KV Gapless line type | Each | 4620.00 |
| 630 | 33 KV Gapless Stn. Type | Each | 10238.00 |
| 631 | Earth coil ( coil of 115 turns of 50 mm dia, 2.5 mtrs . Lead | Each | 137.00 |
| 632 | 15mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 94.00 |
| 633 | 20.00mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 120.00 |
| 634 | 25.00mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 165.00 |
| 635 | 32.00 mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 217.00 |
| 636 | 40.00mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 265.00 |
| 637 | 50.00 mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 345.00 |
| 638 | 65.00mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 453.00 |
| 639 | 80.00mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 564.00 |


| SNO. | Description of Item | Unit | Rate |
| :---: | :---: | :---: | :---: |
| 640 | 100.00mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 814.00 |
| 641 | 125.00 mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 1048.00 |
| 642 | 150.00 mm (For 'B' Class pipe ISI Marked (IS-1161-68)) | Each | 1233.00 |
| 643 | 32.00mm (A' Class G.I.Pipe ISI Marked (IS-1161-69)) | Each | 191.00 |
| 644 | 40.00mm (A' Class G.I.Pipe ISI Marked (IS-1161-69)) | Each | 226.00 |
| 645 | 50.00 mm (A' Class G.I.Pipe ISI Marked (IS-1161-69)) | Each | 291.00 |
| 646 | 65.00mm (A' Class G.I.Pipe ISI Marked (IS-1161-69)) | Each | 367.00 |
| 647 | 80.00mm (A' Class G.I.Pipe ISI Marked (IS-1161-69)) | Each | 487.00 |
| 648 | 100.00mm (A' Class G.I.Pipe ISI Marked (IS-1161-69)) | Each | 686.00 |
| 649 | 50.00mm O.D A' Class G.I.Pipe ISI Marked (IS-1161-69) | Each | 96.00 |
| 650 | 75.00mm O.D A' Class G.I.Pipe ISI Marked (IS-1161-69) | Each | 207.00 |
| 651 | 110.00 mm O.D A' Class G.I.Pipe ISI Marked (IS-1161-69) | Each | 436.00 |
| 652 | 50.00 mm outside dia. For 'B' Class pipe ISI Marked (IS-1161-68) | Each | 185.00 |
| 653 | 63.00 mm outside dia. For 'B' Class pipe ISI Marked (IS-1161-68) | Each | 196.00 |
| 654 | 77.00 mm outside dia. For 'B' Class pipe ISI Marked (IS-1161-68) | Each | 208.00 |
| 655 | 90.00 mm outside dia. For 'B' Class pipe ISI Marked (IS-1161-68) | Each | 237.00 |
| 656 | 110.00mm outside dia. For 'B' Class pipe ISI Marked (IS-1161-68) | Each | 289.00 |
| 657 | 120.00 mm outside dia.For 'B' Class pipe ISI Marked (IS-1161-68) | Each | 312.00 |
| 658 | 145.00mm outside dia. For 'B' Class pipe ISI Marked (IS-1161-68) | Each | 352.00 |
| 659 | 160.00 mm outside dia. For 'B' Class pipe ISI Marked (IS-1161-68) | Each | 381.00 |
| 660 | 175.00 mm outside dia. For 'B' Class pipe ISI Marked (IS-1161-68) | Each | 404.00 |
| 661 | 200.00mm outside dia. For 'B' Class pipe ISI Marked (IS-1161-68) | Each | 450.00 |
| 662 | 2 HP A' Class G.I.Pipe ISI Marked (IS-1161-69) | Each | 10742.00 |
| 663 | 3HP A' Class G.I.Pipe ISI Marked (IS-1161-69) | Each | 13390.00 |
| 664 | 5HP A' Class G.I.Pipe ISI Marked (IS-1161-69) | Each | 16881.00 |
| 665 | 7.5HP A' Class G.I.Pipe ISI Marked (IS-1161-69) | Each | 20985.00 |
| 666 | 10HP A' Class G.I.Pipe ISI Marked (IS-1161-69) | Each | 27427.00 |
| 667 | 0.75/1.0/2.0/3.0/5.0/7.5 HP 3 -Phase with two earthing terminals | Each | 1329.00 |
| 668 | 10 HP 3 -Phase with two earthing terminals | Each | 1526.00 |
| 669 | 10 HP timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals | Each | 4983.00 |
| 670 | 12.5/15.0 HP timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals | Each | 5194.00 |
| 671 | 20HP timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals | Each | 6083.00 |
| 672 | 25 HP timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals | Each | 6294.00 |
| 673 | 30 HP timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals | Each | 7955.00 |
| 674 | 35 HP timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals | Each | 10107.00 |
| 675 | 50 HP timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals | Each | 15301.00 |
| 676 | 60 HP timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals | Each | 24799.00 |
| 677 | 75 HP timer $415 \mathrm{~V}, 3$-Phase with two earthing terminals | Each | 25454.00 |

