



**GOVERNMENT OF TAMIL NADU  
DEPARTMENT OF TOURISM**

**Infrastructure Development Investment Program for Tourism  
PIU - Tamil Nadu Tourism Development Corporation Limited**

**BIDDING DOCUMENT**

**for**

**Construction of Pilgrim Tourist Rest House, Dormitory  
and Tourist Reception Centre Along With Other Basic  
Facilities at Chidambaram in Cuddalore District**

**Volume2 - Price Bid Documents**

**Issued on : 09 April 2018**

**Invitation for Bids No : PIU/TTDC/ROC NO: 0160/Engg/2018 dated: 21.02.2018**

**NCB No : IDIPT/TN/T4/NCB/06/2017**

**Employer : The Chairman and Managing Director,  
Tamil Nadu Tourism Development Corporation Limited,  
Tamil Nadu Tourism Complex,  
No 2, Wallajah Road.  
Chennai – 600 002, Tamil Nadu, India.  
Phone No – 044-25333850-54.  
Email: ttdc@vsnl.com**

**Country: : India**

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# Bidding Forms

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## Letter of Price Bid

**Date:**

**NCB No:** IDIPT/TN/T4/NCB/06/2017

**Invitation Bid No:** PIU/TTDC/ROC No: 0160/Engg/2018

Dated: 21.02.2018

To:

The Chairman and Managing Director,  
Tamil Nadu Tourism Development Corporation Limited,  
Tamil Nadu Tourism Complex,  
No 2, Wallajah Road.  
Chennai – 600 002, Tamil Nadu, India.  
Phone No: 044-25333850-54  
Email: ttdc@vsnl.com.

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8;
- (b) We offer to execute in conformity with the Bidding Documents the following Works:
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is:
- (d) The discounts offered and the methodology for their application are:
- (e) Our Bid shall be valid for a period of . . . . . days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: \*\*

Name of Recipient	Address	Reason	Amount
.....	.....	.....	.....
.....	.....	.....	.....

- (h) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and

- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (j) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.
- (k) If awarded the contract, the person named below shall act as Contractor's Representative.

Name .....

In the capacity of .....

Signed .....

Duly authorized to sign the Bid for and on behalf of .....

Date .....

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**\*\* If none has been paid or is to be paid, indicate "none"**

## Schedules

**Bill of Quantities [Admeasurements contract]**

**Schedules of Prices [item rate contract]**

**Schedule of Payment Currencies**

**Not Applicable**

**Construction of Pilgrim tourist rest house, dormitory and tourist reception Centre along with other basic facilities at Chidambaram in Cuddalore District in Tamil Nadu.**

Separate tables may be required if the various sections of the Works (or of the Bill of Quantities) will have substantially different foreign and local currency requirements. The Employer should insert the names of each Section of the Works.

	A	B	C	D
Name of Payment Currency	Amount of Currency	Rate of Exchange to Local Currency	Local Currency Equivalent $C = A \times B$	Percentage of Net Bid Price (NBP) $\frac{100 \times C}{NBP}$
Local currency		1.00		
Foreign Currency #1	Not applicable			
Foreign Currency #2	Not applicable			
Foreign Currency #	Not applicable			
Net Bid Price				100.00
Provisional Sums Expressed in Local Currency		1.00		
BID PRICE				

**Tables of Adjustment Data****Not Applicable****Table A - Local Currency**

Index Code	Index Description	Source of Index *	Base Value and Date	Bidder's Local Currency Amount	Bidder's Proposed Weighting (coefficient)
	Non-adjustable	—	—	—	a: (by Employer) b: _____ c: _____ d: _____ e: _____
<b>Total</b>					<b>1.00</b>

**Table B - Foreign Currency****Not Applicable****Name of Currency: Nil**

If the Bidder wishes to quote in more than one foreign currency, this table should be repeated for each foreign currency.

Index Code	Index Description	Source of Index	Base Value and Date	Bidder's Currency in Type/Amount	Equivalent in FC1	Bidder's Proposed Weighting (coefficient)
	Nonadjustable	—	—	—		a: (by Employer) b: _____ c: _____ d: _____ e: _____
<b>Total</b>						<b>1.00</b>



## PREAMBLE TO THE BILL OF QUANTITIES

If any deviation is found while on execution between the specifications given in the schedule of quantities and the drawings it is to be expressly noted that the specification will hold good and supersede the drawings.

Description of schedule of quantities includes only major items. All allied instruments, equipment, materials etc. Shall be part of that major item & shall be quoted under that major item unless otherwise specified

The bidder is required to peruse carefully all parts of tender documents and drawings and if any difference / inconsistency are noticed, he shall bring it to attention of Employer before submission of tender and shall get the clarification(s) required. Failure to do so will not entitle the successful bidder for any extra claims on account of such discrepancies/inconsistencies.

### (I) GENERAL

This Preamble is to be read in conjunction with the description of various items given in the Bill of Quantities (BOQ). These items are deemed to be a part of the BOQ and shall be read along with the same. The rates quoted for various items in BOQ are deemed to include the various provisions made herein. Whether specifically mentioned or not in the BOQ, the requirements given below shall be deemed to be included:

1. The quoted rate shall be all inclusive and cover the cost of material including wastage, freight, cess, royalties all types of erection, construction, testing of materials, samples brought for approval, tools and tackles, plant and equipment, supervision, overheads, profit and any other expenditure incurred for completion of work as per drawings, specifications and to the full satisfaction of Employer/ Project Manager.
2. The rates quoted shall be valid for working at all heights, depths and on all floor levels. No extra payment shall be made for scaffolding, staging, ladders, etc., for transportation of men and material at higher or lower levels.
3. The Contractor will have to carry out the work in accordance with the drawings, technical specifications and / or other conditions lay down in tender document and to the full satisfaction of Employer/ Project Manager
4. The Employer reserves right of operating any item for any work on any height.
5. Rates of all items shall remain constant irrespective of level and no extra shall be paid for handling and stacking of material, removing debris etc. from the site.
6. The contractor should take approval for make & manufacturer from the Employer/ Project Manger before using any material which does not appear in the list of approved manufacturers.
7. All materials which shall be brought on site shall be of approved make & manufacturers, failing which payment shall be deducted suitably from every running bills/final bill. Percentage of the same shall be assessed by Engineer in charge (EIC) and EIC at their discretion will either ask contractor to remove / rectify the same or to decide the new proper rate of that particular item.
8. The Bidder at his own cost is required to inspect the site of the work and ascertain for himself site conditions, facilities available and other aspects before quoting for the work. The bidder is also

required, before quoting, to carefully peruse the tender documents, the tender drawings and connected details so as to understand clearly the scope and intent of the tender. Any claims by the successful bidder at a later date on account of his failure to comply with the above instructions will not be entertained.

9. The bidder should note that he should execute his part of the work without causing any damage to any component of the terminal or services. Any damage so caused shall be made good at the cost and risk of the successful bidder. Neat housekeeping at all sites of work is the responsibility of the successful bidder, who shall also ensure that removal of debris, waste materials etc. from the site at his own cost is organized at regular basis. The successful bidder shall also be responsible for safety and security of all his materials and also for ensuring fire prevention steps are taken at all times.
10. The bidder should note that the tender drawings and other documents describing each item of the schedule are only indicative in nature and cannot be taken as complete in detail. The job calls for workmanship, safety and finish including use of good quality materials of high standard, it is expected that the bidder should understand the intent of the tender drawings and specifications and provide for materials, workmanship, finishes and accessories appropriately so as to deliver the product of high standards in keeping with the function for which the system is being specified. No claim from the contractor at a later date will be entertained for his failure to understand this condition. The decision of Employer/Project Manager in respect of the quality of materials, type of construction, fabrication / assembling, workmanship, finish, etc., shall be final and binding and the contractor's claim for not providing in his tender for such materials, construction, workmanship and finish cannot be entertained.
11. The Employer / Project Manager reserve the right to insist on selection of material, workmanship, detailing and finishes which they consider are appropriate, and suitable for the intended use. The Contractor is not eligible for extra claims on this account.
12. **The Employer/ Project Manager** will require the contractor to produce samples of all materials, accessories/prior to procurement / manufacture if required by client. Failure to comply with these instructions may result in rejection of the work.
13. The contractor should use only the best material. If required by **Employer/ Project Manager** the contractor will be required to arrange for testing products and produce test certificate from recognized test houses to establish the quality of materials at his own cost. Any defective material not meeting with the standard shall be replaced at the contractor's own cost.

## **(II) Payments**

### **A. Earth work**

- 1) The item for excavation also includes dewatering and shoring wherever required and no separate payment shall be made in respect of dewatering and shoring.
- 2) No separate provision made for safety measures like barricading, sign boards, traffic control measures etc, during excavation The safety Measures are to be followed as per specifications and or as per site requirements in consultation with the Engineer
- 3) No extra payment shall be made for reinstatement necessary due to his work outside the payment trench width. Contractor has to rectify the extra excavated surface at his own cost

### **B. Bedding**

- 1) Bedding shall be done with available excavated materials or imported from nearby excavated trenches. No separate payment shall be made against the bedding item. The supply rate for granular material for bedding procured from quarry sites/borrow areas shall be paid separately as mentioned in the bill of quantities.

### **C. Concrete**

Formwork and necessary reinforcement shall be priced with concrete if separate items are not provided for such in the Bills of Quantities. Rates for concrete shall include for the following unless measured separately:-

- 1) Obtaining ready mix concrete, where necessary, as per specifications, and obtaining test report from the manufacturer.
- 2) Transporting, admixtures, handling, pumping / hoisting and placing at any height or depth.
- 3) Packing and tamping around reinforcement, including vibrating.
- 4) Mixing, hoisting / lowering, placing in position and packing around reinforcements, site mixed concrete.
- 5) Vibrating and curing as specified.
- 6) All necessary stop boards, construction joints etc.
- 7) Finishing to slopes and falls and cross falls prepare surface ready for screed or paving where necessary including cutting to sizes and temporary supports to form necessary grooves.
- 8) Water bars / water stops where necessary.
- 9) Making good after removal of form work.
- 10) Making provisions, in concrete to fix any fixtures required under the work.
- 11) Making provisions, leaving openings, sleeves for all pipe work and making good around openings.
- 12) Rates for plain concrete blinding beds shall include for any necessary formwork at edges for the extra width of concrete which may be required in lieu.

### **D. Reinforcement**

- 1) Reinforcement and all works in connection therewith shall be measured as the calculated weight of reinforcement detailed on the drawings or otherwise specified, and for this purpose the weight of reinforcement shall be taken as 0.00785kg/m for each mm<sup>2</sup> of nominal cross-sectional area and in metric tonne.
- 2) No measurement will be made in respect of any laps, chairs and pins placed in the reinforcement. The quantity to be measured and paid for these items shall not include wastage in cutting. Only steel actually installed and placed in position shall be paid. No separate payment shall be made for binding wire or tack welding in lieu of binding.

### **E. Formwork**

**Rate for Formwork shall include for:-**

- 1) Fabricating, setting up and erection at any height or depth and striking off and cleaning, preparing for reuse and removing of formwork;
- 2) All necessary props, joists, struts etc., incidental items and materials such as nails, screws

anchors hooks etc for formwork at any level, including additional propping, strutting and supporting decks;

- 3) Formwork in narrow widths and small quantities; for setting up, strutting and supporting at any height;
- 4) Unrecoverable formwork;
- 5) Coating with form oil, sprayed plastics or lining;
- 6) Rubbing down and making concrete surface good after removal of formwork;
- 7) Sealing of joints to avoid leaking of cement grouting;
- 8) Cleaning the surface before concreting (removing dirt, saw dust etc.)

#### **F. Brick work**

**The rates for brick work shall include the cost of the following:**

- 1) Providing and fixing necessary single or double scaffolding and removing the same after the work is completed.
- 2) Watering, curing, and lifting of material to any height.
- 3) Raking out of joints to receive plaster.
- 4) Forming slab sittings, cutting or leaving holes for lugs of windows, doors, sills, switch and plug boxes etc.
- 5) Making good all holes, chases etc. to any depth due to conduit pipes, holdfasts, bolts, switch and plug boxes etc.
- 6) Bedding and pointing precast lintels, sills etc. in or on walls.
- 7) For the purpose of measurements, the thickness of one brick wall and over shall be taken in terms of multiples of half brick.

**Brick work shall be measured in cubic meter.**

#### **G. Wood Work:**

**Unless specified otherwise, rates shall include for:**

- 1) Hoisting and fixing in position, drilling and making good.
- 2) All necessary brass nails hinges and screws, glue, rawl plugs etc.,.
- 3) 5mm thick clear float glass as appropriate to suit the respective doors and windows, unless specified otherwise in the drawings and schedules.
- 4) Fixing timber frames / sashes with brass screws lock sets with 3 keys manufactured in Europe on all doors.
- 5) Painting with two coat of wood preservative, two coats of primer and two final coats of wood sheen spray paint.
- 6) Length and breadth shall be measured correct to a cm and its area shall be calculated in square metres correct to two places of decimal

**H. White Wash:**

Length and breadth shall be measured correct to a cm. and area shall be calculated in sqm correct to two places of decimals. The provided rate includes for scaffolding, cleaning the surface cost of brush labour etc.

**I. Painting****Rates for painting shall include for:-**

- 1) All necessary scaffolding work including supply, erection and dismantling;
- 2) Preparation of surfaces, cleaning down;
- 3) Smoothing, knotting, stopping etc.;
- 4) Protecting floors, fittings etc.;
- 5) Removing and replacing door and window furniture and cleaning upon completion;
- 6) Providing samples and specification of all paints to be used in the works;
- 7) Preparation of approved plastered wall surfaces before applying paint;

**J. Floor Finish****Rates for Floor Finishes shall include for:-**

- 1) Preparing surface for finishing or screed/backing;
- 2) Forming joints between different surfaces, and expansion joints;
- 3) Finishing to slopes falls and cross falls;
- 4) Making good or tile cutting to any required shape or size around pipes, sanitary fittings and fixtures;
- 5) Cutting and wastage of tiles and other floor finishes;
- 6) Pointing to match tiles as approved;
- 7) Moulded and chamfered edges, rebated edges, splayed edges, round edges, grooves etc.;
- 8) All ends and angles of risers and edges of landings;
- 9) Cleaning and polishing of tiles after completion;
- 10) Providing samples and obtaining necessary approvals as and when required by the Engineer
- 11) Provide and obtain necessary approvals for the expansion joints if any
- 12) Protection of the completed work until the work is properly handed over to the Employer.

**K. Electrical Installation:**

- 1) Work shall be carried out by an experienced electrical contractor who has had previous experience in similar projects and shall have necessary tools, equipment and experienced staff for Electrical installation and Testing.
- 2) When procuring main cables the Bidder shall take into account actual physical measurements to avoid joints. Special orders shall be placed with manufacturers for cable lengths more than 100 meters.
- 3) All imported products and fittings shall have the country of manufacture and the specification number marked distinctly.

**Rates for Electrical works shall include for:-**

- 1) Assembling and jointing together and for any jointing material; for fixings and supports to each and any background inclusive of all fixing materials, components and special mountings; for

cutting and pinning or building in all fixings and supports, including subsequently making good; and for disconnecting and re fixing equipment and fittings to enable other trades to proceed.

- 2) All wall, ceiling or floor sleeves and plates as required including any necessary packing and water tight cable entries at locations with risks of water leaks.
- 3) All identification plates, discs, labels, type of service indicators, warning notices, circuit schedules, instruction charts and the like.
- 4) Marking the position of all holes, mortises, chases, sinking and the like in both the structure and its coverings and for forming or cutting away same as required and for building in and all making good in connection therewith.
- 5) Switchboards, switchgear, distribution boards, control gear, fittings, equipment and the like shall include for all fuses, MCBs, RCCBs, isolators, relays, contactors, instrumentation, indicators, interlocks, metering, cable entry boxes, gland plates earthing connection and the like and levelling.
- 6) Bus way systems where applicable shall include fire barriers, bends, joints, end boxes, end covers, fuses, hangers, expansion joints and all other installation material.
- 7) Cables shall include for all fixings as necessary, cable terminations and glands, joint boxes, earthing lugs, bus bar clamps and the like; for drawing cable into conduit or ducts, laying into trunking or trenches, or fixing to cable tray or the fabric of the building; for bonding to earthing points and the like; and for all identification labels, markers and tags as required. Installation of underground cables shall include cutting trenches, laying cables as required by regulations, filling with sand, supplying and laying protecting tiles, warning tapes and compacting.
- 8) All PVC conduits shall be embedded, unless otherwise specified. Raceways and accessories shall be of galvanized steel and shall include bends, tees, covers, joints, brackets, hangers and all other required installation material.
- 9) Conduiting, (rigid and flexible) cable trays, trunking, ladders and any other means of support and/or mechanical protection to cables, forming openings in trunking; for bushing materials, pin racks and fire barriers; for suspension sets; and for all fittings, accessories, boxes and the like.
- 10) Lamp fittings shall include for all associated lamps, control gear ballasts, starters, capacitors, diffuses, suspension sets and fixings including boxes, conduit boxes, wooden blocks, , break-joint rings, ceiling roses, connector blocks, compression glands, flexible cords, all wiring and the like as required.
- 11) Lighting and small power (or socket outlet) wiring circuits shall include PVC insulated copper cables including earth cable of required cross section drawn in PVC or other conduits as per Specifications including junction boxes, ceiling boxes, wall boxes and electrical and other accessories.
- 12) Accessories shall include all necessary back plates, boxes, screws, nuts and bolts, iron / G.I. brackets, rods, clips as per specification and all other necessary materials to complete the installation.
- 13) Transporting of all electrical equipment shall include the use of cranes, folk lifts and all other methods of transport.
- 14) Protective painting to plant, equipment, conduit and the like shall include for all preparatory work and painting with rust inhibitive or other protective paint or coating.
- 15) Decorative painting to all exposed plant, equipment, conduit and the like shall include for all preparatory work, primers, undercoats and finishing coats of paint to approved colours.
- 16) Preparing, making applications to statutory authorities and all follow up work and co-ordination to obtain permanent electrical connection to the building. Statutory payments made to authorities in this respect will be reimbursed to the contractor by the Client on submission of documentary proof of such payments.
- 17) Coordination of work with other services / subcontractors.

## **L. Sanitary Fittings and Plumbing**

The whole of the sanitary works shall be carried out by a licensed sanitary plumber according to the layout and as specified and as directed at site. It should be noted that the positions shown on plans are approximate. Exact positions would be indicated at site.

### **Rates for sanitary fittings shall include for:**

- 1) Fittings such as taps, waste water outlets, flushing cisterns, flush valves, internal overflows etc., the supporting brackets and incidental materials for fixing.
- 2) Assembling, jointing together, fixing components and jointing to pipes inclusive of necessary
- 3) couplings and for leaving perfectly clean undamaged and in perfect working order as on completion. c. Jointing and connecting pipes to sanitary fittings
- 4) Testing and commissioning of installation
- 5) Making good the work disturbed.

### **(III) Provisional Sum**

- 1) Provision has made in the Bill of Quantities for amount payable to line department for shifting of utility services such as shifting of water supply pipeline, telephone / power supply cable for permanent restoration of National Highways, State Highways and PWD roads. Permanent restoration shall be done by concerned department and paid from provisional sum. The identification and permanent shifting of existing utilities namely water supply, sewerage, electricity, and telephone cable is the responsibility of the contractor and the cost towards shifting of utilities shall be borne by the Employer (for permanent shifting only) under the head of provisional sum. Temporary shifting of utilities is the responsibility of the contractor and no extra cost shall be paid against such works. The amount under provisional sum is fixed and the bidder shall not quote tender premium for this provision
- 2) "Provisional sum" means a sum included in the Contract and so designated in the execution of any part of the Works or for the supply of goods, materials, Plant or services, which sum may be used, in whole or in part, or not at all, on the instructions of the Engineer. The Contractor shall be entitled to only such amount in respect of the work, supply etc to which Provisional Sums relate as the Engineer shall determine in accordance with this Clause .The Engineer shall notify the Contractor of any determination made under this clause, with prior consent of the Employer.
- 3) In respect of every payment under Provisional Sum the Engineer shall have authority to issue instructions for the execution of work or the supply of, materials, Plant Sums or services by the Contractor, in which case the Contractor shall be entitled to an amount equal to the value thereof determined by the Engineer in charge.
- 4) The Contractor shall produce to the Engineer all quotations, invoice, vouchers and accounts or receipts in connection with expenditure in respect of Provisional Sums, except where work is valued in accordance with rates or prices set out in the Tender.

**(IV) AS BUILT DRAWINGS**

- 1) Unless otherwise specified the Contractor shall deliver to the Engineer two sets of hard copies to appropriate scale and on appropriate size paper, and one set of AutoCAD compatible soft copy in a compact disk.
- 2) Drawings of the buildings site work such as, paving, fencing, drainage, electrical ducts, water sewerage system and all other services.
- 3) All drawings, documents and manuals shall be to a standard format. All drawings shall be to the size required by Engineer.
- 4) The Bid shall be deemed to include the cost of the preparation, supply and delivery of all drawings, instruction manuals, transparent copies on polyester and information and copies thereof which the Contractor is required to provide under the terms of the Contract.



<b>Govt of Tamil Nadu, Department of Tourism</b>		
<b>Infrastructure Development Investment Program for Tourism (IDIPT-TN)</b>		
<b>PIU- Tamil Nadu Tourism Development Corporation Limited</b>		
<b>Construction of Pilgrim tourist rest house, dormitory and tourist reception centre along with other basic facilities at Chidambaram in Cuddalore District.</b>		
<b>Invitation for Bid No:PIU/TTDC/ROC NO: 0160/Engg/2018 Dated: 21.02.2018</b>		
<b>Contract Package No: IDIPT/TN/T4/NCB/06/2017</b>		
<b>Name &amp; Address of the Bidder:</b>		
<b>ABSTRACT OF BILL OF QUANTITIES</b>		
S.No	Description of Works	Amount In INR
1	Construction of Pilgrim tourist rest house, dormitory and tourist reception centre along with other basic facilities at Chidambaram in Cuddalore District.	
	Provisional sum towards Furniture arrangements, Fire Fighting Works, Petty supervision and contingencies charges, unforeseen item of works and Labour Welfare Fund.	<b>15700000.00</b>
<b>Grand total</b>		
<b>Amount - (Rupees in Words)</b>		
<b>Signature of bidder with seal</b>		

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**Govt of Tamil Nadu, Department of Tourism**

**Infrastructure Development Investment Program for Tourism (IDIPT-TN)**

**PIU - Tamil Nadu Tourism Development Corporation Limited**

**Construction of pilgrim tourist rest house, Dormitory and tourist reception centre along with other basic facilities at Chidambaram in Cuddalore District.**

**Name and Address of the Bidder:**

**Bill of Quantities**

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
1	Earth work excavation for foundation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	Cum	4652.00			
	Extra for every additional 1 m lift or part thereof over the initial lift	Cum	2282.00			
2	Earth work open excavation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the excavated earth with a lead of 10 mts. within the compound in places shown by the departmental officers and clearing and levelling the site, etc., complete complying with standard specification.	Cum	597.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
3	Providing Pre - construction Anti - termite treatment and creating a chemical barrier to the building by injecting chemical emulsion of required concentration under grade slab and grade beam, all round the Pile Caps, Catch basins, trenches, pits, tunnels, wall trenches, back fill, plinth filling, junction of wall and floor. External perimeter of building, surrounding of pipes, expansion joints, below U.G. sump and retaining/side walls etc. as per instructions of chemical manufacturer as directed by the Department officer/ Architect. The treatment shall be carried out strictly in accordance with the technical specification and conforming to IS 6313 or equivalent BS specification. The chemical to be used as insecticide for the treatment shall be Biflex Tc, TC stands for TeRmiticide Concentrate for TeRmite Control (Bifenthrin) and the application shall be diluted 1 part of chemical Biflex Tc with 49 parts of water to get 0.05% emulsion and strictly in accordance with the manufacturer's specification.	Sqm	1765.00			
	<b>Earth Filling Work</b>					
4	Refilling with excavated earth in layers of 150mm thickness well watered rammed and consolidated complying with relevant std specification	Cum	5.00			
5	Supplying and filling in foundation, basement, etc with filling sand in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	Cum	1241.00			
6	Plain Cement Concrete 1:5:10(One Cement five sand ten aggregates) using 40mm gauge HBG jelly inclusive of shoring strutting and baling out water where ever necessary ramming curing etc., complete in respects complying with relevant standard specification and as directed by the Department Officers.	Cum	347.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
7	<b>Plain Cement Concrete</b> 1:2:4(One Cement two sand four aggregates) using 20mm gauge HBG jelly inclusive of shoring strutting and baling out water where ever necessary ramming curing etc., complete in respects complying with relevant standard specification and as directed by the Department Officers.	Cum	101.00			
8	Damp proof course with Cement Mortar 1:4 (One Cement and Four sand) 12mm thick mixed with best approved qualitrey water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used and finishing, curing etc. complete complying with standard specification.	Sqm	248.00			
	<b>Reinforced Cement Concrete work</b>					
9	Cement Concrete 1:1.5:3 for all reinforced cement concrete works using 20mm gauge HBG stone jelly excluding cost of reinforcement grills in position and centering and shuttering but including laying, curing and finishing etc.complete.					
a)	Foundation & basement	Cum	63.00			
b)	Ground floor	Cum	9.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
10	Providing and lying in position , standardised Concrete Mix M25 Grade in accordance with IS 456-2000 using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 325 Kg/M3 and Maximum water cement ratio of 0.55 including admixture (plasticiser/super plasticiser ) in recommended proportions as per IS 9103 as accelerate , retard Setting of concrete improve workability without impairing strength and durability with about 5 Cum ) 7730 kg of 20mm machine crushed stone jelly and with about (3.3 Cum) 5156 kg of 10-12mm machine crushed stone jelly and about (4.79 Cum 7670 kg of sand , but excluding cost of reinforcement grill and fabricating charges centering and shuttering and also including laying vibrating with mechanical vibrators finishing curing ect., and providing fixtures like fan clamps in the RCC floor /roof slabs wherever necessary without claiming extra etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS standards (No separate payment will be made by the Department for the excess usage of Materials)	Cum	67.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
11	Providing and lying in position , standardised Concrete Mix M30 Grade in accordance with IS 456-2000 using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 325 Kg/M3 and Maximum water cement ratio of 0.55 including admixture (plasticiser/super plasticiser ) in recommended proportions as per IS 9103 as accelerate , retard Setting of concrete improve workability without impairing strength and durability with about 5 Cum ) 7730 kg of 20mm machine crushed stone jelly and with about (3.3 Cum) 5156 kg of 10-12mm machine crushed stone jelly and about (4.79 Cum 7670 kg of sand , but excluding cost of reinforcement grill and fabricating charges centering and shuttering and also including laying vibrating with mechanical vibrators finishing curing ect., and providing fixtures like fan clamps in the RCC floor /roof slabs wherever necessary without claiming extra etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS standards (No separate payment will be made by the Department for the excess usage of Materials)					
a)	Upto Basement	Cum	872.00			
b)	In Ground floor	Cum	448.00			
c)	In First Floor	Cum	362.00			
d)	In Second Floor	Cum	306.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
e)	In Third Floor	Cum	84.00			
f)	In Fourth Floor	Cum	55.0			
12	Supplying, fabricating and placing in position Mild Steel / Ribbed Tor Steel grills for all RCC works as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	Mt	287.03			
13	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals, plinth beams, grade beams, staircase steps, etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)..	Sqm	2933.00			



S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
14	Supplying and erecting centering for sides and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificaiton. (Payment for centering shall be given after the concrete is laid)					
a)	For reinforced cement concrete works such as floor and roof slab, lintels, beams staircase waist and landing slab and plane surfaces and other similar works.	Sqm	7340.00			
b)	For plane surfaces such as vertical slab, side slabs of boxing, vertical drops, facia, vertical wall, etc.	Sqm	670.00			
c)	For RCC surface of Columns and in small quantities such as sunshades, parapet Cum drops, window boxing fin projections and other similar works.	Sqm	3077.00			
15	Brick work in CM 1:6 using country brick of size 83/4"x41/4"x2 1/4" including cost and conveyance of all materials and labour charges and all other incidental charges etc completc complying with standard specification.					
a)	Foundation & basement	Cum	186.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
b)	In Ground floor	Cum	327.00			
c)	In First floor	Cum	224.00			
d)	In Second floor	Cum	130.00			
e)	In Third floor	Cum	52.00			
16	Brick partition walls of 10.80cm thickness using best quality Litrey Country Bricks of size 8-3/4" x 4-1/4" x 2-1/4" in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)					
a)	In Ground floor	Cum	1155.00			
b)	In First floor	Cum	1011.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
c)	In Second floor	Cum	778.00			
	<b>Plastering</b>					
17	Special ceiling plastering for R.C.C slab beam and sunshades with cement mortar 1:3 ,10mm thick including cost and conveyance of all materials and all labour charges,curing etc., complete complying with standard specifications	Sqm	4207.00			
18	Plastering with Cement mortar 1:5,12mm thick including cost and conveyance of all materials and all labour charges, curing etc,complete complying with standard specifications.	Sqm	9367.00			
19	External Plastering with Cement Mortar 1:5 (One Cement and Five Sand) 20mm thick mixed with water proofing compound conforming to BIS at 2% by weight of cement used including finsihing, curing, etc., complete in all floors complying with standard specification and as directed by the departmental officers.	Sqm	5410.00			
20	External Plastering with Cement Mortar 1:3 (One Cement and Three Sand) 20mm thick mixed with water proofing compound conforming to BIS at 2% by weight of cement used including finsihing, curing, etc., complete in all floors complying with standard specification and as directed by the departmental officers.	Sqm	478.00			
	<b>Paint work</b>					
21	White washing two coats with best shell lime including cost and conveyance of all materials and all labour charges etc. complete complying with standard specifications.	Sqm	17271.99			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
22	Supplying and painting the walls with two coats of oil bound distemper over one coat of water based cement primer including cost for distemper, primer, cleaning and scrapping the walls, rendering the walls smooth with necessary putty, brushes, scaffolding arrangements, labour charges, etc., as per standard specification. (The colour and shade of the distemper shall be got approved by the Executive Engineer before use of work).	Sqm	4091.00			
23	Supplying and painting the walls with two coats of oil bound distemper over one coat of water based cement primer including cost for distemper, primer, cleaning and scrapping the walls, rendering the walls smooth with necessary putty, brushes, scaffolding arrangements, labour charges, etc., as per standard specification. (The colour and shade of the distemper shall be got approved by the Engineer in charge before use of work).	Sqm	90.00			
24	Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint of first class quaLitrey and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required including labour, scaffolding, curing etc., complete in all respects at all levels etc., complete complying with standard specification.	Sqm	7822.00			
25	Painting two coats of newly plastered wall surface with ready mixed Exterior emulsion paint of first class quaLitrey and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required including labour, scaffolding, curing etc., complete in all respects at all levels etc., complete complying with standard specification.(The colour and shade of the emulsion shall be got approved by the Executive Engineer before use of work).	Sqm	5341.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
26	Painting new iron works such as gate, steel doors windows ventilators with two coats of approved quality and color of synthetic enamel paint over the existing red oxide primer in all floor etc, complete complying with standard specifications.	Sqm	309.00			
27	Painting new wood work with two coats of synthetic enamel paint of approved quality and color over one coat of white primer in all floors the rate is to include cost of all materials, brushes scaffolding charges etc, complete complying with standard specifications.	Sqm	164.00			
	<b>Flooring work</b>					
28	Paving the floor with Vitrified tiles of size 600 x 600 x 8 mm in all floors over a base layer of cement mortar 1:3 (one cement and three sand ) 20mm thick laid in-site and pointed with same colored cement	Sqm	2123.00			
29	Paving the floor with pre-polished concrete anti-skid tiles (Required shape and design) of 20mm thick of approved quality and colour laid in Cement Mortar 1:3 (One Cement and Three sand) 20mm thick and pointed with white cement mixed with colouring pigment at the rate of 0.40 Kg. / sq.m., curing, etc., complete complying with standard specification and as directed by the departmental officers. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)	Sqm	512.00			
30	Dadoing walls with Glazed tiles of sizes 300 X 200 X 6mm size of approved make and quality and color (Set in cement mortar 1:2 (one cement ,two sand) over 10 mm base layer plastering and pointing with white cement neatly as directed.	Sqm	1037.00			
31	Paving the floor with Polished Kotta stone slabs 20mm with machine cut edges of 2'0 x 2'0 size in all floors over a base layer of cement mortar 1:3 (one cement and three sand ) 20mm thick laid in-site and pointed with same colored cement	Sqm	1154.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
32	Supply and laying of <b>pre polished Ruby red granite</b> 20mm thick over bed of Cement Mortar 1:3 (One cement and three sand), 20mm thick including nosing the steps tread and grooving two lines etc., complete complying with standard specification.	Sqm	18.00			
33	Paving the floor with best approved quaLitrey fine polished Granite Stone Slabs of size 1200 x 600 of 18 / 20mm thick of Synthetic Grey, Paradise and similar varieties with machine cut edges,Groove & Knoosing laid over a cement mortar bed of 20mm thick using cement mortar 1:3 (One cement and three sand) fixing the slabs with required cement slurry and laid in true right angles with minimum possible width of joints and pointing the joints with white cement mixed with mathcing colouring pigments etc., The granite stone slabs and other materials to be used shall be got approved by the Executive Engineer concerned before use on work, etc., complete as per standard speicification.	Sqm	40.00			
34	Supplying and fixing fine polished cuddapah slab of 20-30mm thickness for cup-board arrangements including laying to correct alignment with necessary cement mortar and black powder etc, complete complying with standard specification and as directed by departmental officers .	Sqm	20.0			
35	Finishing the top of roof with one course of machine pressed tiles of size 230mm x 230mm x 20mm of approved quaLitrey Set in Cement Mortar 1:3 (One Cement and Three Sand) 12mm thick mixed with water proofing compound conforming to ISS at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same cement mortar mixed with red oxide and water proofing compound including curing etc., complete complying with standard specification and as directed by the departmental officers	Sqm	1694.0			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
36	Manufacturing, Supply and Fixing of M.S. steel doors with following specification. MS angles of size 40x40x6mm at 3.5 kg/m used for the outer frame and MS angles of size 35x35x5mm at 2.60 kg/m for the shutter frames including one coat of red oxide primer.	Kg	88.00			
	<b>Wood Work and Joinery</b>					
37	Supply and fixing II class Teak wood for frames 100x75mm size of door including all material and labour charges for teak wood wrought and put up in position and the size and section as per the architectural drawings & Specification					
a)	Teak Wood Scantling upto 2m in length	Cum	0.98			
b)	Teak Wood Scantling above 2m in length	Cum	7.49			
38	Supplying and fixing of Countrywood frames of various sizes including wrought and put up.as per standard specifications.	Cum	0.05			
39	Supplying and fixing in position of 35mm thick Solid core flush shutters with Teak wood ply on both sides with teak wood lipping around including cost and conveyance of all materials, Brass and ornamental furniture fittings including labour charges for fixing in position of door shutter etc., complete complying with standard specification.	Sqm	165.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
40	Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Windows of casement type (open) from the profile the size of outer frame 60mm x 58mm and shutter profile are reinforcement with GI/1mm 125GSM and 100% corrosion free, the profiles are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with over all the edges of frame and shutter the shutter will be provided with Espag multi power point locks and also it operates as handle. The corners and joints should be welded and cleaned. Radiations free pin headed plain or brown colour glass 4mm thick should be provided to the shutter and it should not allow leakage of water even at most ranging stoRms and should have key lockable action, security protective hinges, strong locking systems and as per size for arresting noise and energy loss. The connecting mechanism between sash and outer frame that enables opening of the window. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The window should be got approved from the Executive Engineer before use on work	Sqm	243.00			
41	Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Louvered Ventilators of from the profile the size of outer frame 60mm x 58mm and shutter profile size of 60 x 78mm both profiles are reinforced with GI/1mm 125GSM and 100% corrosion free, the profile are multi chambered sections with wall thick of 2mm.The EPDM rubber (black colour) covered with all over the edges of frame and shutter. The corners and joints should be welded and cleaned. Radiations pin headed glass 4mm thick should be provided in the louvers. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The ventilator should be got approved from the Executive Engineer before use on work	Sqm	35.00			



S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
42	Supplying& fixing solid PVC door shutter using 19 Gauge 19mm Ms.Sq. tubes for style and outer frames 15mm MS Sq. tubes for top, Lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary brass furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, lock rail and bottom rail shall be 5mmx30mm. The over all size of frames shall be 50mm x 45mm, with suitable rebate for housing the shutter. The rate is including cost of brass furniture fittings etc., complete complying with standard specification.	Sqm	110.00			
43	Supplying and fixing in position of 10mm thick Gyp board FALSE CEILING arrangements with aluminium anodised ' T' Section and 'L' angle frame work of grid size 60x60cm with aluminium T section and 'L' angle of size 25x25x2mm thick and the same is supported @ suitable intervals by adjustable type 6 mm dia MS rod with suitable threaded nuts suspended rods hung from ceiling at 120 cm c/c in both directions and fixing Gyp board in the Grid so as to give a seat to false ceiling including painting the 6mm dia MS rod etc., complete complying with standard specifications. Necessary opening and arrangements for fixing electrical fittings should be provided with suitable frame work etc., complete complying with standard specification.	Sqm	1489.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
44	Supplying and fixing in position of Aluminium Door of Single shutter partly glazed and partly paneled door with frame made out of box section 101.60x44.45x3.18mm at 2.319 Kg/M door shutter frame made out of 50x44.45x2.50mm at 1.202 Kg/m for vertical styles, top and middle and bottom section 101.60x44.45x2.50mm at 1.975 Kg/m and using Aluminium clips of size 17.15x17.27x1.50mm at 0.176 Kg/m with necessary metal screws, pivots, rubber bending, PVC felts, handle of size 100x30x1.60mm at 0.988 Kg/m on both sides, tower bolts, PVC felts, handle of size 100x30x1.60mm at 0.988 Kg/m on both sides, tower bolts, automatic door closer, lock 5.50mm thick plain glass of required size and both sides prelaminate (MDF) board 12mm thick for panel portion including cost of all materials, labour, power consumption required for fabrication, during holes in RCC column, floor slabs, masonry walls where ever necessary with power drills to the required extend and make to the original condition after fixing and as directed all the aluminium sections are to be anodized with matt finish under electrically controlled condition in according with IS 1868/1962 of anodic	Sqm	15.00			
45	Supply and fixing in position of anodized aluminium fixed glazing using 63.50 x 38.10mm x 1.41 mm @ 0.818 kg/m, thick extruded box section as vertical and horizontal spaced member and fixing 4.00mm thick plain frosted / Pin headed glass with necessary glazing, clips rubber beading L angle, screw, conveyance, scaffolding if any and including dismantling making holes in RCC Columns, beams, masonry wherever necessary with power drill to the extent required and made good to the original conditions after fixing as directed by departmental officers. The aluminium surface is to be anodized with matt finish under electrically controlled condition in accordance with ISI 1868/ 1962 specifications for an average anodic film thickness. All materials should be got approved by the Executive Engineer before fixing in position.	Sqm	8.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
46	Supply and fixing Window M.S.Grill of approved design including welding,transporatation and one coat of primer etc., complete complying with standard specification.	Kg	6522.00			
47	Supplying and fixing Hydraulic door closer of approved quaLitrey using Aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment like HARDWYN make, GAZEL or equivalent with ISI Monogram etc., complete complying with standard specification.	No	60.00			
48	Manufacturing, Supplying and Fixing of Stainless Steel Hand rails for staircase near wet riser using 50mm dia 304L Grade Stainless Steel pipe of 1.60mm thick will be provided with tubular supports made of 304L Grade Stainless Steel pipe of 25mm dia of 1.60mm thick welded to the railing. The supports will be grouted into the wall and provided with 93.00mm thick Stainless Steel circular base plate of 304 Grade. The rate shall included for grouting into concrete with necessary supporting arrangements the hand rail in floor polishing buffing, bonding, cutting, grinding, conveyance,welding charges, electrical charges etc., complete complying with standard specification.	Rm	214.00			
49	Plastering in CM 1:3,12mm thick with 2% of water proofing compound by weight of cement including finishing neatly,curing etc., complete complying with standard specification.	Sqm	599.00			
50	Weathering course concrete with broken jelly 20mm size and pure slaked lime over RCC roof slab, the proportion being 32:12.5 for required depth of 80mm for giving required slope and thickness of roof on required, well beaten with wooden beater etc, complete with standard specifications.	Cum	142.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
51	<p>Design Engineering, Supply, Fabrication, erection, Testing, commissioning and handling over of 1 No13 persons passenger front glass panel scenic Lift as per the Technical specifications including all taxes and duties for newly constructed Yathri Nivas Building at Chidambaram.</p> <p>Number of lift/type of lift : ONE/NEXTRA - SPECIAL INCLUSIONS:</p> <ol style="list-style-type: none"> <li>1. Dot Matrix LED D &amp; P indicators in car &amp; Landings - Orange Colour</li> <li>2. Push button - Orange LED illumination</li> <li>3. Battery operated Emergency light and alaRm bell</li> <li>4. Call Register Signal and VF door operator</li> <li>5. False ceiling in car</li> <li>6. 3 way intercom / press and speak phone</li> <li>7. Infra Red door screen</li> <li>8. Vandal proof SS Button with S.S Cover</li> <li>9. Automatic Rescue Device</li> <li>10. Overload warning indicator</li> <li>11. Firemans Switch</li> <li>12. Intercom provision with instrusement</li> <li>13. SS Handrail</li> <li>14. Floor annumciator with music</li> <li>15. Pit ladder</li> <li>16. Full car operating panel</li> <li>17. Minor builder works</li> <li>18. Scaffolding</li> </ol>	No	1.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
	19. Lift License 20. Commercial steel 21. Free service for One year (MR). To be Erected in Lift machine Room & Lift well - 1 Set Design Engineering, Supply, Fabrication, erection, Testing, commissioning and handling over of 1 No 13 persons passenger front glass panel scenic Lift as per the following Technical specifications including all taxes and duties for newly constructed Yathri Nivas Building at Chidambaram <b>LIFT SPECIFICATION</b> Number of Lifts/Type Of Lift : ONE / NEXTRA - PASSENGER Load / Speed : 13 Persons (884Kgs.) / 1.25 Mtr. Per Second Drive : MICRO PROCESSOR BASED VVVF Travel / PIT / HEADROOM : 7 METER / PIT 1500mm / HEADROOM 4200 mm Number of Floors : 7 METER / PIT 1500mm / HEADROOM 4200 mm					
52	Providing and fixing Manhole Cover With frame 90X90CM double seal, air tight, non-slip SFRC cover & frame for drain & cable duct as per the direction of Engineer-in-charge.	No	2.00			
53	Supplying and fixing in position manhole covers with frames (Heavy duty) of size 60cm x 60cm of best approved quality as per standard specification etc., complete complying with standard specifications	No	6.00			
54	Supplying and Fixing MS Ladder width 45cm using 50x50x6mm MS Angle and as per the direction of Engineer-in-charge.	Rm	20.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
55	Supplying and erecting pull and push type rolling shutter with ISI make of approved size and section using 18 GI sheet. The shutter shall be painted with one coat of red oxide primer and the rate is inclusive of hood covers, transportation charges etc., (Manually Operated)	Sqm	19.00			
56	Supplying and fixing in position best approved of BIS quaLitrey PVC rain water down fall pipes having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 Mtr pipe length, etc., complete complying with standard specification.-110mm dia, etc., complete complying with standard specification.	Rm	4.00			
<b>WATER SUPPLY ARRANGEMENT</b>						
57	Supplying, laying and jointing PVC pipes (having working pressure 10 kg. / sq.cm) of approved quaLitrey and best variety conforming to BIS of the following dia including cutting, threading and fixing PVC specials using PVC adhesives (but excluding cost of such specials) and fixing into wall with teak wood plugs, PVC clamps and screws making holes on the wall (or) drilling holes in the roof and making good the dismantled portion to original condition with necessary brick work / cement concrete and plastering neatly wherever necessary with necessary scaffolding charges, etc., complete complying with standard specifications. The PVC pipes shall be got approved by Executive Engineer before use on works.					

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
a)	15mm Dia	Mtr	108.00			
b)	20mm Dia	Mtr	89.00			
c)	25mm Dia	Mtr	71.00			
d)	32mm Dia	Mtr	228.00			
e)	40mm Dia	Mtr	144.00			
f)	50mm Dia	Mtr	114.00			
58	Supplying <b>PVC Specials</b> (with working pressure 10 kg. / sq.cm.) in water supply arrangements (both in internal and external water supply arrangements Since the labour for cutting, threading / pasting, sundries have already been included under pipe line item of works, no separate provision for fixing PVC specials needs to be allowed					

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
	<b>Coupler</b>					
a)	15mm Dia	No	18.00			
b)	20mm Dia	No	18.00			
c)	25mm Dia	No	18.00			
d)	32mm Dia	No	18.00			
e)	40mm Dia	No	18.00			
	<b>Elbow</b>					
a)	15mm Dia	No	18.00			
b)	20mm Dia	No	18.00			



S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
c)	25mm Dia	No	18.00			
d)	32mm Dia	No	18.00			
e)	40mm Dia	No	18.00			
	<b>Tee</b>					
a)	15mm Dia	No	12.00			
b)	20mm Dia	No	12.00			
c)	25mm Dia	No	12.00			
d)	32mm Dia	No	12.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
e)	40mm Dia	No	12.00			
	<b>End Cap</b>					
a)	15mm Dia	No	14.00			
b)	20mm Dia	No	14.00			
c)	25mm Dia	No	14.00			
d)	32mm Dia	No	14.00			
e)	40mm Dia	No	14.00			
	<b>Reducer</b>					
a)	20 mm x 15 mm	No	16.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
b)	25 mm x 20 mm	No	11.00			
c)	32 mm x 25 mm	No	11.00			
d)	40 mm x 32 mm	No	11.00			
<b>Reducer Tee</b>						
a)	20 mm x 15 mm	No	14.00			
b)	25 mm x 20 mm	No	14.00			
c)	32 mm x 25 mm	No	14.00			
d)	40 mm x 32 mm	No	14.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
59	Providing and fixing 15mm C.P brass swan neck tap approved quaLitrey conforming to IS standards.	No	4.00			
60	Supply and fixing of 2in1 wall mixer heavy duty of approved make confiRming to BIS specification and quaLitrey icluding cost of shellac,thread etc. Complete complying with standard specification including cutting and threading wherever necessary. (Tap should be got approved by Executive Engineer before use on work).	No	28.00			
61	Supplying and fixing in position best quaLitrey cuddapah sink of size 600x400x200 including cost of 32mm dia CP waste coupling, 32mm dia PVC waste pipe with rubber plug and chain, 15mm dia brass nipple including fixing the sink in position and testing for leakages etc., complete complying with standard specifications excluding CI brackets. [The sink and specials should be got approved by the Executive Engineer before use on works]	No	3.00			
62	Supplying and fixing in position first quaLitrey and approved variety of Gun metal Gate Valve / Wheel Valve / Non return valve with BIS make of the following dia including cost of shellac, thread balls, etc., complete complying with standard specifications (for both internal and external water supply arrangements). The valves to be used on work shall be got approved by the Executive Engineer before use on work.					
a)	32mm Dia	No	47.00			
b)	40mm Dia	No	15.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
c)	50mm Dia	No	6.00			
63	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 etc., complete complying with standard specification.	No	42.00			
64	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931 etc., complete complying with standard specification.	No	50.00			
65	Supplying and fixing in position Indian make bevelled edge mirror of approved quality and brand PVC / Fibre Glass framed 600 x 450 x 5.5mm thick mirror, shelf type with hard board backing of approved colour fixed with brass screws, rawl plug, etc., complete complying with standard specification. (The mirror should be got approved by the Executive Engineer before use on works)	No	48.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
66	Supplying and fixing in position best quality and approved make Indian made white / colour glazed earthenware wash hand basin of size 550 x 400mm (with pedestal / without pedestal) with a pair of cast iron brackets, including cost 15mm dia brass CP pillar tap, 32mm dia bell mouth PVC connection and waste pipe, 15mm dia GI pipe of required length, 15mm dia GM wheel valve, 15mm brass nipple, 15mm dia nylon connection, 32mm dia CP brass waste coupling including fixing of wash basin using CI brackets on to the wall in position with TW plugs and screws, rubber washers, white lead and giving necessary water supply connection and painting the brackets with two coat of painting over a priming coat of anti-corrosive paint including testing for leakages etc., complete complying with standard specification and as directed by the departmental officers. (The wash hand basin and specials should be got approved by the Executive Engineer before use on works).	No	48.00			
67	Supplying and fixing in position Indian Water CloSet (Oriya type) of size 580 x 440mm white glazed earthen ware of approved quality and brand with "P" or "S" trap conforming to BIS with sand cushion and forming flooring around the cloSet using 40mm broken brick jelly in lime concrete 1:2:5 (One lime, Two sand and Five brick jelly) 100mm thick and finishing the top to the required slope and including giving necessary connection to CI soil pipes (including the cost of 100mm dia CI pipe for a length of 600mm) by dismantling brick masonry wall / reinforced cement concrete roof / floor slab and making good the dismantled portion to the original condition with leakages etc., complete complying with standard specifications and as directed by the departmental officers. (The water cloSet should be got approved by the Executive Engineer before use on works).	No	6.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
68	Supply and fixing in position of best Indian make white / colour glazed earthenware lipped mouth flat back urinal of best quality and approved make of size 430mm x 260mm x 350mm with GI pipe, 32mm dia bell mouth PVC connection and waste pipe, 15mm dia GI pipe of required length, 15mm dia GM wheel valve, 15mm dia brass nipple 2 Nos., and fixing the urinals in position with necessary TW plugs, clamps, screws, etc., including dismantling masonry and re-doing the same to the original condition, etc., including painting the pipe with two coats of best quality approved synthetic enamel paint over one coat of red oxide primer and checked without any leakage etc. complete complying with standard specifications and as directed by the departmental officers. (The urinal should be got approved by the Executive Engineer before use on works.)	No	7.00			
69	Supplying and fixing in position white / colour glazed European Water CloSet of best quality and approved make with 100 mm "P" or "S" trap connecting with CI pipe of 100mm dia / PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing 10 Litres capacity PVC / 12.5 Litres capacity porcelain low level flushing tank with a pair of CI brackets, etc., complete with all fittings such as 15mm brass ball valve with polythene float with brass handle, union, coupling connected by means of 40mm white PVC flush hand using Indian adopter joint including all internal fittings such as 15mm brass connections, 15mm GM wheel valve, 15mm brass nipple (2 Nos.), 15mm nylon connection, TW plugs, screws and also giving necessary connection to the PVC pipe including cost of 600mm length of 110mm dia PVC pipe and painting the CI brackets with 2 coats of approved paint over one coat of red oxide primer, dismantling the masonry and re-doing the dismantled masonry to original condition etc. complete complying with standard specifications. (The EWC and flushing tank with all accessories should be got approved by the Executive Engineer before use on works)	No	34.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
70	Supplying and fixing of <b>CP health faucet</b> (Jet spray) for EWC with brass CP stand with flexible tubes, brass CP angle cock with brass CP valve cap including necessary fittings etc., complete	No	34.00			
71	Supplying and fixing approved best quality brass CP towel rail 600mm long and 20mm dia with brackets of same materials including cost of teak wood plugs and CP screws, etc., complete complying with standard specifications. (The towel rail should be got approved by Executive Engineer before use on works).	No	41.00			
72	Supplying and fixing best approved best quality brass CP soap tray of size 150 x 150mm including cost of teak wood plugs, brass screws, etc., complete complying with standard specifications. (The soap tray should be got approved by Executive Engineer before use on works).	No	30.00			
73	Supplying and fixing in position CP shower rose with CP stop cock arrangement of size 15mm dia inlet and 100mm outlet to the pipe line with necessary cutting, threading and jointing using shellac etc., complete complying with standard specification and as directed by the departmental officers (The CP shower rose should be got approved by the Executive Engineer before use on works).	No	28.00			
74	Supplying and fixing position PVC Nahani Trap / Floor Trap of the following sizes with best PVC gratings of approved brand and quality, fixed over a bed of brick jelly lime concrete 1:2:5 (One part of lime, two part of sand and five part of 40mm gauge brick jelly) and finished with Cement Mortar 1:3 (One Cement, Three sand) including dismantling masonry works wherever found necessary and making good the dismantled portions to the original condition and giving connection to the PVC pipes, etc., complete complying with standard specification. (The Nahani Trap should be got approved by the Executive Engineer before use on works)	No	114.00			



S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
75	Supplying and fixing in position 150 x 100mm "P" or "S" stoneware <b>gully trap</b> 'A' grade with CI double gratings of size 150 x 150mm and 230 x 230mm at bottom and top respectively with necessary earth work excavation laid over a bed of brick jelly cement concrete 1:3:6 (One cement, Three sand and Six broken brick jelly) 150mm thick using 40mm size broken brick jelly including necessary brick work and plastering including dismantling masonry wherever necessary and re-doing the damaged portions to the original conditions using cement concrete 1:3:6 using 20mm stone jelly for fixing the gully trap and giving connections to stoneware sewer line etc., complete complying with standard specifications. [Earth work excavation, brick work, plastering shall be measured and paid separately]. The stoneware gully trap should be got approved by the Executive Engineer before use on works.	No	114.00			
76	Providing and fixing <b>trash can</b> suitable for toilet rooms.	No	39.00			
77	Supplying and fixing in position best quality PVC soil / waste pipes of various dia having 6 kg / sq.cm. pressure BIS mark and providing leak proof joints using PVC adhesives including fixing to the wall with special PVC / MS clamp, teak wood plugs, brass screws, etc., and making connection to all sanitary fittings, dismantling masonry / RCC works wherever found necessary and making the good dismantled portion to the original condition, including testing for any leakages, etc., complete complying with standard specifications. (The PVC pipes should be got approved by the Executive Engineer before use on works). The rate for earth work excavation will be measured and paid separately in the cases where the pipe lines are proposed to laid below ground level					
a)	32mm Dia	Mtr	77.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
b)	50mm Dia	Mtr	85.00			
c)	75mm Dia	Mtr	361.00			
d)	110mm Dia	Mtr	279.00			
78	Supplying and fixing in position PVC specials of the following dia and types of approved quality conforming to BIS and providing leak proof joints including fixing to the walls and giving connection to the PVC soil stacks, dismantling the masonry or RCC works and re-doing the dismantled portion to original condition etc., complete complying with standard specifications. (The PVC specials should be got approved by the Executive Engineer before use on works).					
	<b>PVC Elbow</b>					
a)	75mm Dia	No	17.00			
b)	110mm Dia	No	17.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
	<b>PVC Elbow with Door</b>					
a)	75mm Dia	No	16.00			
b)	110mm Dia	No	16.00			
	<b>PVC "Y"</b>					
a)	75mm Dia	No	<b>7.00</b>			
b)	110mm Dia	No	7.00			
	<b>PVC "Y" with Single Door</b>					
a)	75mm Dia	No	7.00			
b)	110mm Dia	No	7.00			
	<b>PVC "Y" with Double Door</b>					
a)	75mm Dia	No	7.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
b)	110mm Dia	No	7.00			
79	Supplying and fixing in position PVC cowls of following dia of best approved quality conforming to BIS, etc., complete complying with standard specifications. (The PVC cowl should be got approved by the Executive Engineer before use on works).					
	<b>PVC Cowl</b>					
a)	75mm Dia	No	55.00			
b)	110mm Dia	No	50.00			
80	Supplying and fixing of 2000 Litre capacity PVC water tank with IS specification IS 10701/96 the tank is meant for outdoor (or) indoor use complete with removable hinged top locking arrangement and to make provision to fix water supply pipe lines, necessary man hole with cover and including all PVC specials pugs, screws nails to fix the tank etc., complete and the tank should be fixed firmly as directed by the departmental officers. The rate shall be inclusive of all materials, labour conveyance hoisting and fixing charges etc. (The water tank should be got approved by the EE before use on work.	Litre	2000.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
	<b>Paver Blcok</b>					
81	Supplying and Paving the Paver Block flooring using Rubber mould paver block ( Colour ) of standard size over the sand filling of 83mm thick, including laying Compacting with power machine including loading transportation and colour pigments of paver blocks, including cost and conveyance of all materials labour etc complete with standard specification.	Sqm	1755.00			
	<b>Sump and Septic Tank</b>					
82	Laying of dispersion trench 150mm dia unglazed Earthen ware pipe with necessary items etc. complete complying with standard specification.	Rm	23.00			
83	Filling of 40mm crushed stone with necessary items etc. complete complying with standard specification.	Cum	8.00			
84	Filling of 20mm crushed stone with necessary items etc. complete complying with standard specification.	Cum	8.00			
85	Manufacturing, supplying and fixing Precast Reinforced Cement Concrete slabs of following thickness in RCC 1:2:4 (one cement, two sand and four aggregates), using following HBGS jelly excluding cost of reinforcement steel in position but including cost of moulding charges, casting of slab, finishing, curing and fixing in position in all floors etc., complete complying with standard specification and as directed by departmental officers <b>(75mm thick)</b>	Sqm	3.00			
86	Supplying and fixing PVC ventilating shaft of 110mm dia (having working pressure 4 kg. / sq.cm) with 3 Mtr height including cost of PVC cylindrical cowl of best approved qualitrety etc., complete complying with standard specifications and as directed by the departmental officers	No	1.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
87	Supplying and fixing in position 150mm dia stoneware tee of approved best quality and providing leak proof joints with cement, spun yarn, etc., including dismantling the brick work and re-doing the dismantled portion to the original condition, etc., complete complying with standard specifications (The stoneware tee shall be got approved by the Executive Engineer before use on work)	No	1.00			
	<b>Bore well</b>					
88	Identifying the point for drilling the borewell using Geological survey etc., complete and as directed by departmental officers.	No	1.00			
89	Drilling of perfectly vertical bore hole of 165 mm diameter up to desired depth below ground level including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc., complete and as directed by departmental officers.	Mtr	92.00			
90	Providing & fixing of 160mm dia & 50 mm dia special blue slotted HDPE & PVC pipes conforming to IS in borewell to a required depth etc., complete and as directed by the Engineer- In-charge.					
a)	160mm	Mtr	92.00			
b)	50mm	Mtr	92.00			
c)	40mm	Mtr	60.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
91	Supplying and Fixing of VERTICAL WET TYPE SUBMERSIBLE <b>5 HP PUMP</b> Set SUITABLE FOR 150MM DIA BOREWELL WITH ISI MARK IS 8034 WITH PANEL BOARD with necessary pipe & fittings and labour for work etc complete as directed by departmental officers	No	2.00			
92	Supplying and fixing of Bore Well Rope with a thickness of 10-16mm the rope can be checked by Engineer in charge.	Mtr	97.00			
93	Supply & fixing of clamp with suitable of 900x100x15mm with bolts and nuts checked by engineer in charge.	No	1.00			
94	Construction of Inspection chamber inner dimension 45cmx45cmx90cm depth in country bricks in Cm 1:5 using country brick of size 83/4x43/4x23/4 for side wall of 230mm thick over foundation of CM 1:5:10 and 230mm thick over base layer of sand 12mm thick plastered with Cm 1:3 with 12mm thick including channelling line to smooth and glossy and covering with RCC precast slab 5mm thick of following sizes with SFRC Cover slab	No	1.00			
95	Testing of water sample, as directed by engineers / consultants. (oral enquiry) and as directed by departmental officers.	No	3.00			
	<b>Rain water Harvesting</b>					
96	Excavation for foundation upto 1.5 mt depth including sorting and stacking of useful materials and disposing of the excavated stuff upto 50 mt lead (Hard Murrum)	Cum	32.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
97	Brick partition walls of 10.80cm thickness using best quality Country Bricks of size 8-3/4" x 4-1/4" x 2-1/4" in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)	Sqm	24.00			
98	Supplying and fixing RCC collar of 2m dia 0.3m height and 90mm thick for filter as directed by the departmental officers	Each	14.00			
99	Supplying and filling of coarse sand as directed by the departmental officers.	Cum	1.00			
100	Supplying and laying with graded Hard Blue Granite Broken Stone Jelly of size from 20mm in equal proportions for formation of filter drains and filter bed as shown in drawing etc complete complying with standard specifications and as directed by the departmental officers	Cum	1.00			
101	Supplying and laying with graded Hard Blue Granite Broken Stone Jelly of size from 40mm in equal proportions for formation of filter drains and filter bed as shown in drawing etc complete complying with standard specifications and as directed by the departmental officers	Cum	2.00			
102	Supplying and laying with graded Hard Blue Granite Broken Stone Jelly of size from 90mm in equal proportions for formation of filter drains and filter bed as shown in drawing etc complete complying with standard specifications and as directed by the departmental officers	Cum	4.00			



S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
103	Manufacturing, supplying and fixing Precast Reinforced Cement Concrete slabs of following thickness in RCC 1:2:4 (one cement, two sand and four aggregates), using following HBGS jelly excluding cost of reinforcement steel in position but including cost of moulding charges, casting of slab, finishing, curing and fixing in position in all floors etc., complete complying with standard specification and as directed.- <b>50mm thick</b>	Sqm	4.00			
104	Providing laying and jointing in true line and level <b>110 diameter</b> U.P.V.C. SWR Type B pipe conforming to IS 13592-1992 with one end plain and other end socketed with rubbering, & fitting conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with Each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm high at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	Mtr	55.00			
105	Providing laying and jointing in true line and level <b>160 diameter</b> U.P.V.C. SWR Type B pipe conforming to IS 13592-1992 with one end plain and other end socketed with rubbering, & fitting conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with Each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160 mm diameter x 210 mm length x 196 mm high at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	Mtr	150.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
	<b>Landscapping</b>					
106	Supplying and filling of Gravel at site to the department guage for premeasurements and it shall be composed of well graded coarse siliceous grains sharp and gritty to touch and free from dirt and other deleterious matter, further it shall not contain lumps larger than 20mm and the finer shall not exceed 10% passing through 75 microns IS sieve and should have liquid limit 20 and plasticity index not more than 6 as per standard specification. The cost including of transport, loading, unloading, stacking at site including all labour charges and taxes seigniorage charges etc. complete.	Cum	284.00			
107	<b>LAWN</b> Trenching the soil - Digging of existing level of ground to a depth of 30cm below the ground and turning down the lower strata of soil to top portion in order to expose the soil borne pathogen if any and to improve the porosity of the soil for better aeration and root penetration	Sqm	946.00			
108	Rough dressing the trenched ground including breaking clods with beaters and removing the rubbles from the soil and making the soil to very fine nature for routing the plants.	Sqm	946.00			
109	Supplying with mixture of red soil, River sand and FYM in 2:1:1 ratio after powdering, cleaning sieving, opening of bags and filling with above mixture and arranging into beds.	Cum	142.00			
110	Fine dressing the trenched ground including breaking clods with beaters and removing the rubbles from the soil and making the soil to very fine nature for routing the plants	Sqm	946.00			
111	Supplying and planting of Dibbling of Korean / Mexican grass (including cost of grass) as directed by departmental officers.	Sqm	946.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
112	<b>Maintenance:</b> Maintenance of Fescue grass / shade grass / carpet grass / Dhoob grass by regular watering, weeding, protection, mowing etc. for a period of three months.	Sqm	946.00			
	<b>Electrical Works</b>					
113	TNEB METERING BOARD Supply and fixing of TNEB Meter Board suitable for 3 Phases 250 A service connection made up of suitable iron angel frame work of size 4 feet x 2 1/2 feet using angle iron of size 1 1/2" x 1 1/2 " x 1/4" rigidly fixed on wall covered with Hylem sheet of size 3 feet x 2 feet of 12 mm thickness with necessary bolts and nutts supports and supply and fixing of 3 nos 250 A fuse units (500V) ,1 No Neutral link ,Copper flat of size 1" x 1/4" with interconnection of EB meter to fuse units by 19/16 PVC insulated copper wire with earth connection complete.	No	1.00			
114	TNEB METERING BOARD Supply and fixing of TNEB Meter Board suitable for 3 Phases 100 A service connection made up of suitable iron angel frame work of size 2 feet x 2 feet using angle iron of size 1 1/2" x 1 1/2 " x 1/4" rigidly fixed on wall covered with Hylem sheet of size 3 feet x 2 feet of 12 mm thickness with necessary bolts and nutts supports and supply and fixing of 3 nos 250 A fuse units (500V) ,1 No Neutral link ,Copper flat of size 1" x 1/4" with interconnection of EB meter to fuse units by 19/16 PVC insulated copper wire with earth connection complete.	No	1.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
115	<p><b>Main LT Panel</b> Supply , Erecting, connecting and commissioning of WALL / FLOOR MOUNTED CUBICLE TYPE SUB POWER PANEL necessary foundation channels, etc., The cost shall also including unloading,positioning, Locking provision for Each incoming and outgoing feeders. The Board shall be incorporated with the following:- Incomer :100 A TPN Switch with HRC Fuses - 1 No ,Outgoing : <b>63 A TPN Switch</b> with HRC Fuses - 3 Nos, 32 A TPN Switch with HRC Fuses - 3 Nos,BUSBAR - ALUMINIUM RATING : 100 AMPS , RYB Indicating Lamps of LED Clustered type ,Multifunction meter and Control MCBs shall be provided.</p>	No	1.00			
116	<p><b>Main LT Panel</b> Supply , Erecting, connecting and commissioning of WALL / FLOOR MOUNTED CUBICLE TYPE SUB POWER PANEL necessary foundation channels, etc., The cost shall also including unloading,positioning, Locking provision for Each incoming and outgoing feeders. The Board shall be incorporated with the following:- Incomer : 250 A TPN Switch with HRC Fuses - 1 No ,Outgoing : <b>100 A TPN Switch</b> with HRC Fuses - 5 Nos ,63 A TPN Switch with HRC Fuses - 4 Nos, 32 A TPN Switch with HRC Fuses - 3 Nos,BUSBAR - ALUMINIUM RATING : 250 AMPS , RYB Indicating Lamps of LED Clustered type ,Multifunction meter and Control MCBs shall be provided.</p>	No	1.00			
117	<p>Wiring with 2x1.5sqmm (22/0.3) PVC insulated SC unsheathed Cu. Conductor of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories in flush with wall with MS Flush mounting boxes with suitable modular plate and frame and 6A Modular Switch with continuous earth wire connection 1x1.5sqmm (22/0.3) PVC insulated for light point / Fan point (For Electronics Regulator).</p>	No	636.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
118	Wiring with 2x1.5 sqmm (22/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories in flush with wall with MS Flush mounting boxes with suitable modular plate and frame and 6A Modular Switch and making good of the concealed portion with suitable colour for PVC concealed light for Rooms like bath, Toilet & Pump room etc..	No	134.00			
119	Wiring with 3x1.5sqmm(22/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories in flush with wall with MS switch box, modular plate with frame and 6A Modular Switch (Two way) and making good of the concealed portion with suitable colour for concealed staircase light point.	No	21.00			
120	Supply and run of 2 of 2.5 sqmm (36/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade in suitable PVC rigid pipe concealed in wall and ceiling with continuous earth wire connection 1 of 1.5sqmm (36/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade and making good of the concealed portion with suitable colour	Mtr	3130.00			
121	Supply and run of 2 of 4 sqmm (56/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade in suitable PVC rigid pipe in wall and ceiling with continuous earth wire connection 1 of 2.5 sqmm (22/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V grade and making good of the concealed portion with suitable colour	Mtr	3800.00			
122	Supply and laying of 3.5 x 25 sq.mm Al XLPE armoured LTUG cable in a trench to be excavated at a depth of 0.75 Mtr putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.	Mtr	485.00			
123	Supply and laying of 3.5 x 50 sq.mm Al XLPE armoured LTUG cable in a trench to be excavated at a depth of 0.75 Mtr putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make .	Mtr	440.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
124	Supply and laying of 3.5 x 300 sq.mm Al XLPE armoured LTUG cable in a trench to be excavated at a depth of 0.75 Mtr putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.	Mtr	235.00			
125	Supply and laying of 4c x 16 Sqmm Al XLPE armoured LTUG cable in a trench to be excavated at a depth of 0.75 Mtr putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.	Mtr	200.00			
126	Supply and laying of 3.5 x 95 sq.mm Al XLPE armoured LTUG cable in a trench to be excavated at a depth of 0.75 Mtr putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.	Mtr	238.00			
127	Supply and Clamping of 4 c X 16 sqmm Al XLPE LTUG armoured LTUG cable on post or on wall with MS Clamp.	Mtr	40.00			
128	Supply and Clamping of 3.5 X 25 sqmm Al XLPE LTUG armoured LTUG cable on post or on wall with MS Clamp .	Mtr	60.00			
129	Supply and Clamping of 3.5 X 50 sqmm Al XLPE LTUG armoured LTUG cable on post or on wall with MS Clamp.	Mtr	70.00			
130	Supply and Clamping of 3.5 X 95 sqmm Al XLPE LTUG armoured LTUG cable on post or on wall with MS Clamp.	Mtr	15.00			
131	Supply and Clamping of 3.5 X 300 sqmm Al XLPE LTUG armoured LTUG cable on post or on wall with MS Clamp	Mtr	45.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
132	Supply and fixing of brass cable gland for 3.5 x 25 sq.mm PVC LTUG armoured cable with earth connection .	No	12.00			
133	Supply and fixing of brass cable gland for 3.5 x 50 sq.mm PVC LTUG armoured cable with earth connection .	No	12.00			
134	Supply and fixing of brass cable gland for 3.5 x 300 sq.mm PVC LTUG armoured cable with earth connection .	No	7.00			
135	Supply and fixing of brass cable gland for 4c x 16 sq.mm PVC LTUG armoured cable with earth connection .	No	4.00			
136	Supply and fixing of brass cable gland for 3.5 x 25 sq.mm PVC LTUG armoured cable with earth connection .	No	2.00			
137	Supply and fixing of brass cable gland for 3.5 x 95 sq.mm PVC LTUG armoured cable with earth connection.	No	2.00			
138	Supply and providing cable end termination of 3.5 x 25 sqmm PVC LTUG Aluminium armoured cable with necessary aluminium cable sockets by crimping etc. with Electrical connection complete .	No	14.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
139	Supply and providing cable end termination of 3.5 x 50 sqmm PVC LTUG Aluminium armoured cable with necessary aluminium cable sockets by crimping etc. with Electrical connection complete	No	12.00			
140	Supply and providing cable end termination of 3.5 x 95 sqmm PVC LTUG Aluminium armoured cable with necessary aluminium cable sockets by crimping etc. with Electrical connection complete.	No	2.00			
141	Supply and providing cable end termination of 3.5 x 300 sqmm PVC LTUG Aluminium armoured cable with necessary aluminium cable sockets by crimping etc. with Electrical connection complete.	No	7.00			
142	6 WAY 3 PHASE HORIZONTAL MCB DB Supply and erection of powder coated wall mounting TPN DB made of 1.6mm thick CRCA sheet steel dust and vermin proof enclosure with suitable size of Aluminium bus bar with suitable bus insulators and sleeve for main and interconnecting Switchgear, earthing as per requirement of CEIG and IE regulation. For the provision of following rated switchgear in the panel. <b>Incoming :</b> 63A 4P ISO - 1 No <b>Outgoing :</b> 40 DP ELMCB - 3 Nos 20A SP MCB 10kA - 18 Nos	No	4.00			
143	Supply & Fixing of 8 way single pole and neutral MCB Sheet steel enclosure DB 1 no 32 Amps MCB as incoming and 6 nos 6 Amps outgoing in flush with wall and making good of the concealed portion with earth connection only. The MCB DB and MCB's should be with ISI mark (Like Standard Make)	No	2.00			



S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
144	8 WAY 3 PHASE VTPN DPX DB Supply and erection of powder coated wall mounting TPN DB made of 1.6mm thick CRCA sheet steel dust and veRmin proof enclosure with suitable size of Aluminium bus bar with suitable bus insulators and sleeve for main and interconnecting Switchgear, earthing as per requirement of CEIG and IE regulation. For the provision of following rated switchgear in the panel. <b>Incoming :</b> 100 A 4P ISO - 1 No <b>Outgoing :</b> 20 A SP MCB 10kA - 18 Nos	No	5.00			
145	8 WAY 3 PHASE HORIZONTAL MCB DB Supply and erection of powder coated wall mounting TPN DB made of 1.6mm thick CRCA sheet steel dust and veRmin proof enclosure with suitable size of Aluminium bus bar with suitable bus insulators and sleeve for main and interconnecting Switchgear, earthing as per requirement of CEIG and IE regulation. For the provision of following rated switchgear in the panel. <b>Incoming :</b> 32 A 4P ISO - 1 No <b>Outgoing :</b> 25 DP ELMCB - 3 Nos 6-10 A SP MCB 10kA - 24 Nos	No	3.00			
146	Earthing as per the ISI specification with an earth electrode of 2.1mt class 'B' GI pipe of dia not less than 40mm, with copper earth plate of size 125mm x 50mm x 6mm, with necessary funneling arrangements with necessary masonry work and with 38mm RCC cover slab for the brick masonry.	No	27.00			
147	Supply and run of 1 of No8 SWG GI wire for earth connection.	Mtr	80.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
148	Supply and run of 25mm x 3mm tinned copper flat with necessary clamps / supports on wall / floor / ground for earth connection	Mtr	100.00			
149	Supply and run of 25mm x 3mm tinned GI flat with necessary clamps / supports on wall / floor / ground for earth connection	Mtr	330.00			
150	Supply and run of 2 of No8 SWG GI wire for guarding with cradle with No8SWG GI wire at the equal interval of 1.5 meter.	Mtr	270.00			
151	Supply and Fixing of 5 W LED Night light with necessary supporting clamps fixed on the roof, interconnections etc	No	2.00			
152	Supply and Fixing of 18W LED Down light with necessary supporting clamps fixed on the roof, interconnections etc...	No	220.00			
153	Supply and Fixing of 20W LED Tube Fitting with TW round blocks on wall or ceiling with PVC unsheathed copper leads from terminals to the fitting with necessary supporting clamps fixed on the roof , interconnections etc	No	87.00			
154	Supply and Fixing of 1200mm 40W LED Tube Fitting with TW round blocks on wall or ceiling with PVC unsheathed copper leads from terminals to the fitting and to complete necessary accessories with necessary supporting clamps fixed on the roof interconnections etc	No	77.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
155	Supply and Fixing of 2X2 40 W Surface mounted LED Fitting with PVC unsheathed copper leads from terminals to the fitting with necessary supporting clamps fixed on the roof ,interconnections etc	No	105.00			
156	Supply and Fixing of 70W High Bay LED Fitting with PVC unsheathed copper leads from terminals to the fitting with necessary supporting clamps fixed on the roof ,interconnections etc	No	6.00			
157	Supply and Fixing of 70W Peripheral LED Fitting with PVC unsheathed copper leads from terminals to the fitting with necessary supporting clamps fixed on the roof ,interconnections etc...	No	10.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
158	<p>7 M GI STEEL TUBULAR POLE Pole :</p> <p>Supply, installation, testing and commissioning 7 m length single bracket pole . tubular poles should be designed as per ILE TR7 &amp; BS5649 for structural design &amp; as per IS875 (Part III), 1987 for dynamic loading. The pole shaft should be made single piece MS structure continuously tapered having polygonal (8/12 sides) cross section and a single longitudinal welding.The welding will be done as per BS 5135 / IS 9595.No cirCumferential welding should be allowed in the pole shaft. The MS should confoRm to BSEN 100025/100027. A suitably designed door should be provided at approximate 700mm height from the pole base.The door opening will be suitably reinforced for structural strength. The door should be flushed with pole external surface and should provide easy access for electrical connections at a maintainable height. A Suitable base flange will be welded and plate reinforcements will be provided between base flange &amp; pole.Foundation accessories will be as per IS 1367.7 m octagonal pole with single arm of 1.m length, 8 degree tilt. The pole should be with the following specifications:7 mtr GI octagonal pole, Height:7000mm, Top:70mm, Bottom:130 mm, Thickness: 3mm, Base Plate : 220 x220 x16 mm. The pole should be supplied with junction box with loop in loop out connection (or) Equivalent to Design standard .</p>	No	20.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
159	<p>FOUNDATION WORK FOR 7M HIGH STREET ELECTRICAL POLE:  consisting of excavation of earthwork below ground level to the required depth, necessary sand filling / quarry dust / quarry dust : gravel in 1:3 ratio before laying, plain cement concrete using M15 grade for normal exposure condition, use of TMT bars as per IS 1786-2008 for reinforcement, M25 grade concrete for RCC work, steel form work, adequate cover for steel requirement as per IS456-2000, weigh batching of concrete mix, adoption of design mix, use of super plasticizer at the rate of 0.6 to 1% by weight of cement (ie 300 to 500ml) (to improve the workability, less segregation, better cohesion and proper water cement ratio for the concrete mix) adequate vibrating, compacting and curing, refilling the excavated portion with suitable earth or quarry dust (poor treacherous clay soil to be avoided), plastering and painting of the pedestal column above ground level including proper fixing bolts and nuts for the base plate complete . Contractor should submit a certificate with respect to design &amp; stability calculation adopted by the vendor in this regards for the foundation of the proposed pole &amp; fittings, considering the various parameters such as wind speed, SBC of the soil, weight of the pole.</p>	No	20.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
160	<p>30 W LED Light: Supply, installation, testing and commissioning of less than 30 w LED high power SMD LED cool white Lighting Fixture made up of LM 6 Pressure Die cast aluminum housing with corrosion resistant painting confiRming to IP 66 , Impact resistance &gt; = IK07 standards, separate compartment for LEDs &amp;electronic driver, Power factor-&gt; 0.9, Operating voltage 140-270 volt universal electronic potted driver with Surge Protection of 10KV, CRI &gt;70, Total HaRmonic Distortion &lt; 20 % , Lumen maintenance ( L 70 ) 50,000 hr (considering 35 degree average night temperature). Test certificate from NABL acerdiated lab for LM 79 and LM 80 report . Aesthetically designed housing with Grey color corrosion resistant painting , with Polycarbonate bottom cover &amp; Side entry type should consist of separate optical and control gear compartment. Dimension of luminaire 416 x 203 x 75mm (+/- 10% tolerance).The luminaire should be with dedicated street lighting unique peanut optic lens to ensure a lux level of 8 LUX with unifoRmity as per IS1944 high spacing from pole to pole and cut-off type. The peanut lens should be fixed mechanically and not to be with glue pasted. The driver should be potted type. Unique air vents in housing design for better theRmal management. The lumianire should be used with high power LEDs delivering a system lumen output 3400 lumens with CCT of 5700K. The efficacy of the luminaire should not be less than 95 lm / W.Compliant with relevant immunity, safety and perfoRmance and EMI standards.The luminaire should be powder coated. The pole entry of the luminaire should be Side entry on standard pole 24 - 40mm. The luminaire should not weight more than 3.0 kg. The luminaire should be Class I electrical. The product should be passed for EN 60598-2-3 for luminaires, EN 62471 photobiological safety, EN 61000-3-2 for haRmonics, EN 61547 for EMC tests. It should be replaceable easily in the field condition.</p>	No	20.00			
161	Supply and Fixing of 5 W LED Night light with necessary supporting clamps fixed on the roof, interconnections etc	No	26.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
162	Supply and Fixing of 10 W LED Bulk head light with necessary supporting clamps fixed on the roof, interconnections etc	No	38.00			
163	Supply and fixing of 1400 mm (56") AC ceiling fan complete with stepped electronic 300W regulator with 300mm down rod on the existing clamp with necessary supporting clamps fixed on the roof , interconnections etc...	No	59.00			
164	Supply and fixing of Exhaust Fans for 300 mm( 12") sweep (light duty) AC Exhaust fan with lover shutters arrangements and necessary supporting clamps fixed on the roof ,interconnections etc	No	43.00			
165	Supply and fixing of 6A Modular switch concealed in suitable MS box,in flush with wall with including all with necessary supporting clamps fixed on the roof, interconnections etc.	No	40.00			
166	Supply and fixing of 6A 5 pin Modular type wall universal socket with 6A Modular switch concealed in suitable MS box,in flush with wall with including all with necessary supporting clamps fixed on the roof , interconnections etc.	No	54.00			
167	Supply and fixing of 2 nos of 6A 5 pin Modular type wall universal socket with 2 no of 6A Modular switch concealed in suitable MS box,in flush with wall with including all with necessary supporting clamps fixed on the roof, interconnections etc	No	42.00			
168	Supply and fixing of 6A / 16A 3 pin combined Modular type wall socket with 16A modular type switch on suitable MS flush box with including all with necessary supporting clamps fixed on the roof ,interconnections etc.	No	19.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
169	Supply and fixing of 6A / 16A 3 pin combined Modular type wall socket on suitable modular plate , MS flush box -For Gyser Point with including all with necessary supporting clamps fixed on the roof ,interconnections etc.	No	26.00			
170	Supply and fixing of 16A modular type switch on suitable modular plate , MS flush box For Gyser Point with including all with necessary supporting clamps fixed on the roof , interconnections etc.	No	26.00			
171	Supply & Fixing of 20 Amps DP Plug and Socket in Sheet Enclosure with 32 A DP MCB in Flush with wall with earth connection with necessary supporting clamps fixed on the roof, interconnections etc (For AC Plug)(Make -Legrand,Hager,L&T or Equivalent)	No	42.00			
172	Supply and fixing of wireless modem and Standards Supported IEEE 802.11g/b and suitable WAN Ports ,Ethernet Speed and other feautres in Supports Access Point mode and Bridge mode,Support WPS PBC/PIN,QoS	No	1.00			
173	Supply and fixing of AC / DC 76 mm Buzzer call bell suitable for 230 V ,50 c/s single phase Ac supply on suitable TW board with Push Switch.	No	24.00			
174	Supply and fixing of RJ11 Modular type wall Telephone socket concealed in suitable Modular plate and frame with MS box with necessary supporting clamps fixed on the roof, interconnections etc.	No	29.00			
175	Supply and fixing of RJ45 Modular type wall UTP (TV socket) concealed in suitable Modular plate and frame with MS box with necessary supporting clamps fixed on the roof ,interconnections etc.	No	24.00			
176	Supplying, fixing, testing and commissioning of 48 port Gigabit switch and CAT-648 port switch with patch panel including all with necessary supporting clamps fixed on the roof ,interconnections etc.	No	1.00			



S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
177	Supply and fixing of 30 Pair Telephone Distribution Box with back mount frame krone connector, powder coated metal body with lock and key arrangement. With necessary supporting clamps fixed on the roof , interconnections etc.	No	1.00			
178	Supply and laying of 2 Pair, 0.5mm telephone copper wire with necessary supporting clamps fixed on the roof ,interconnections etc.	Mtr	1800.00			
179	Supply and laying of LAN Cable Cat - 6 UTP Cable with necessary supporting clamps fixed on the roof , interconnections etc.	Mtr	450.00			
180	Supply and Run of RG 6 coaxial cable TV wire in suitable PVC pipe concealed / clamping in wall / ceiling,interconnections etc.	Mtr	1700.00			
181	<b>160 kVA DG Set</b> Supply and installation of 160 kVA / 50kW, SILENT Diesel Generating Set with CPCB II approved acoustic enclosure ,Diesel engine developing 206 BHP at 1500 RPM, complete with standard accessories. Rated at 160 kVA at 415 Volts with Manual control Panel , mounted on Channel Iron Base Frame complete with Control Panel and 01 no 12 V Batteries.	Mtr	1.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
182	<p><b>250A CHANGE OVER SWITCH</b> Supply and erection of 250 Amps three phase 500 V 4 pole Change over switch ,powder coated floor mounting indoor type change over panel made of 1.6mm thick CRCA sheet steel dust and veRmin proof enclosure with suitable size of Aluminium bus bar with suitable bus bar insulators and sleeve for main and interconnecting Switchgear, earthing as per requirement of CEIG and IE regulation. All cables shall have proper cable entry, gland plates, suitable size of glands, earth tags for glands, lugs, cadmium plated nuts , bolts, feeder identification marks, shall be installed on performed trench and consisting of the following as required and as per IS standards and panel should be manufactures only from panel builds with CPRI Test certificate.</p>	No	1.00			
183	<p><b>Lightning arrester</b> Supply of Early Emission Air terminal (ESEAT) Model:S. The ESEAT has corrosion resistant stainless chrome body made up of AISI 316 grade of height 0.5 meters capable of working in hazardous atmosphere. The unit is fully autonomous (No battery ,no external power supply is required), collect energy from the ambient electric field. The ESEAT model has been tested in high voltage laboratory in accordance with NFC 17 102 in order to measure the average gain in triggering. The average gain in triggering time obtained during the lab test for the offered during the lab test for offered model is 60 µs. ESEAT Model: S-Radius of Protection :46 Meters ,Level of protection considered for the project -II level, Mounting structure height shall be of 4.5 Mtr pipe and 300 x 300 x 8mm MS plate 3 Mtr 48 mm OD Class C GI outer Pipe 1.8 mtr ,38 mm OD inner pipe for mounting on concrete base and with FRP adapter, Down conductor shall be 25 mm x 6 mm GI flat down conductor with necessary clamps / supports on wall /floor/ ground for earth connection ,Test link box shall be down conductor in order to disconnect the earth termination system, Earth electrode 50 mm dia and 2 Mtr long earth electrode ,Surge protection shall be Cabinet Class 1 and 2 combined model SPD to arrest surges and overvoltages in power line due to lightning switching action etc. They must be installed in the incoming MCC panel /DB of the respective building in parallel to the power circuit Model : PSV4-12.5/400TT (3 PHASE POWER NETWORK)</p>	No	1.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
184	<p>1.5 TR Sp Litre Type Ac Unit with Voltage Stabilizer : (5-Star: Make-Carrier / Voltas / O General Or Equivqlent) :</p> <p>Supply, Installation and commisioning of 1.5 TR SpLitre Type Ac Unit (5-Star) comprising of 1. Cooling Capacity Nominal (Kcal/hr)-5.25 Kw± 2% , 2. Coefficient of perfoRmance: 3.5 (Minimum), 3. Max. Ambient temperature : 480 degree C ± 5%, 4. Moisture removal rate : 2 ± 10% Litrere/ hour, 5. Air flow rate : 5.6 cmm (Minimum), 6. Noise level (Indoor unit : Less than 45 db, Outdoor unit : Less than 55 db), 7. Function modes : Auto/Cool/Fan/Dry – shall have sleep and power saving modes , 8. Other features : -(i) Automated vertical swing for horizontal louvers, (ii) Antifreeze theRmostat, 9. Compressor : Rotary type, 10. Body surface finish : powder coated/high quaLitrey paint finish, 10. Air filtering unit : Activated carbon cartridge, dust proof and anti-bacteria filter, 11. Length of tubings : 15 m(or) as per the installation requirement , 12. Remote handSet : LCD display with night glow, 13. Voltage Stabilizer : Stabilizer having ISI quaLitrey certification and rating that matches with the power rating of the A/C unit .</p>	No	42.00			
185	<p>OUT DOOR LIGHTING CONTROL DB</p> <p>Supply and erection of powder coated floor mounting out door lighting control panel made of 1.6mm thick CRCA sheet steel dust and veRmin proof enclosure with suitable size of Aluminium bus bar with suitable bus bar insulators and sleeve for main and interconnecting Switchgear, earthing as per requirement of CEIG and IE regulation. For the provision of following rated switchgear in the panel.</p> <p><b>Incoming :</b>  40A 30mA 4P Isolator - 1 No  32A TP Power contactor - 1 No  Timer switch - 1 No</p> <p><b>Outgoing</b>  16A DP MCB 10kA - 6 Nos</p>	No	1.00			

S. No	Description of Work	Unit	Quantity	Rate quoted in INR		Amount in INR
				In Figure	In Words	
186	Supply and laying of 300mm dia RCC hume pipe for road crossing and excation of earth to complete to work etc.	Mtr	100.00			
187	<b>APPROVAL</b> Preparing and obtaining the approval from TNEB to carryout electrical installation and duly submitting the drawing for approval including necessary inspection fees for inspection and obtaining Safety certificate for entire new installation	Set	1.00			
188	<b>SAFETY EQUIPMENTS</b> supply and delivery of the following safety equipments with allied material as required by the statutory authority like CEIG a) 10 kg capacity DCP type fire extinguisher -2 Nos b) First aid box small size -1 Set c) first aid resuscitation chart laminated both in local language and English -1 Set d)Rubber mat - 5 Mtr	Set	2.00			
<b>Add 12% GST</b>						
<b>Chidambaram Works Total</b>						
<b>Signature of Contractor With Seal.</b>						