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# Bidding Forms

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## Letter of Price Bid

**Date:**

**NCB No:** IDIPT/TN/T4/NCB/07/2017

**Invitation Bid No:** PIU/TTDC/ROC No: 3469/Engg/2017-18

Dated: 31.01.2018

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 120 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

**Improvement at Tourist Guest house & Information centre at Hogenakkal in Dharmapuri District, Construction of Banquet hall & Tourist hostel in district town of Trichy & Renovation of heritage Tourist centre in Kanyakumari 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, Tamil Nadu Tourism Development Corporation Limited</b>			
<b>Infrastructure Development Investment Program for Tourism (IDIPT-TN)</b>			
<b>Improvement at Tourist Guest house &amp; Information centre at Hogenakkal in Dharmapuri District, Construction of Banquet hall &amp; Tourist hostel in district town of Trichy &amp; Renovation of heritage Tourist centre in Kanyakumari in Tamil Nadu.</b>			
<b>Invitation for Bid No: PIU/TTDC/ROC/NO : 3469/Engg/2017-18 dated: 31.01.2018</b>			
<b>Contract Package No: IDIPT/TN/T4/07/2017</b>			
<b>Name and Address of the Bidder:</b>			
<b>ABSTRACT BILL OF QUANTITIES</b>			
S.No	Schedule No	Details	Amount INR
1	1	Improvement at Tourist Guest House and Information Centre at <b>Hogenakkal</b> in Dharmapuri District.	
		Provisional sum towards Furniture arrangements, Petty Supervision and contingencies charges, labour welfare and unforeseen item of works	<b>2362000.00</b>
2	2	Construction of Banquet Hall & Tourist Hostel in District town of <b>Trichy</b> .	
		Provisional sum towards Furniture arrangements, Fire Fighting arrangement works, Petty Supervision and contingencies charges, labour welfare and unforeseen item of works	<b>10201000.00</b>
3	3	Renovation of Heritage Tourist Centre at <b>Kanyakumari</b> in Tamil Nadu	
		Provisional sum towards Petty Supervision and contingencies charges, labour welfare and unforeseen item of works	<b>235000.00</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, Tamil Nadu Tourism Development Corporation Limited**

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

**Improvement at Tourist Guest house & Information centre at Hogenakkal in Dharmapuri District**

**Name and Address of the Bidder:**

**Schedule 1- Hogenakkal**

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	362			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
2	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. Including cost of chemicals labour charges, transport and storing etc complete and as directed by the department officers	Sqm	413			
3	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	109			
4	Supplying and filling of well gravel by lorry in basement filling including conveyance loading and unloading charges and all other incidental charges filling laying watering and consolidation etc., complete as directed by the Dept., Officers with standard specification.	Cum	285			
5	Plain Cement Concrete 1:5:10 (One Cement, Five sand and Ten hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick well rammed, consolidated and curing etc. complete complying with standard specification	Cum	103			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
6	Damp proof course with Cement Mortar 1:4 (One Cement and Four sand) 12mm thick mixed with best approved quality 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	64			
7	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 cu.m ) 7730 kg of 20mm machine crushed stone jelly and with about (3.3 cu.m) 5156 kg of 10-12mm machine crushed stone jelly and about (4.79 cu.m 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					
a)	Upto basement	Cum	108			
b)	Ground floor	Cum	83			
c)	First floor	Cum	77			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
d)	Terrece floor	Cum	29			
8	Brick work in Cement Mortar 1:5 using best quality II class Ground moulded chamber burnt bricks of size 9" x 4-3/8" x 2-3/4" for foundation and basement including curing, etc., complete complying with standard specification.					
a)	Inbetween column Up to plinth level	Cum	30			
b)	In ground floor	Cum	135			
c)	In First floor	Cum	102			
d)	In Terrece floor	Cum	24			
9	Brick partition walls of 11.50cm thickness using best quality II Class Table Moulded Chamber Burnt Bricks of size 9" x 4-1/2" x 3" 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)	Ground Floor	Sqm	64			
b)	First Floor	Sqm	64			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
10	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)					
a)	Upto basement	Sqm	466			
b)	Rcc Slab and Beams	Sqm	1178			
c)	Rcc Column and Sunshade	Sqm	571			
11	Supplying, fabricating and placing in position Fe500 of 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	44.0			
12	Supplying and fixing Teakwood frame with scantling above 2m for doors including labour charges for wrought and putup in possible and for fixing holdfast in frame and necessary etc., complete.					
a)	Teakwood Scantling Upto 2m in length	Cum	0.32			
b)	Teakwood Scantling 2m to 3m in length	Cum	1.86			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
13	Supplying and fixing of Flush door shutter using Teak wood frame of size 127mm x 76mm and Door shutters Single leaf in position using 35mm thick solid core Flush shutters with teak ply on both sides with teak wood lipping around including cost and labour for fixing the holdfast and furniture fittings etc.,complete as directed by the departmental officers complying with standard specification.	Sqm	36			
14	UPVC Window 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	75			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
15	UPVC Ventilator Specification: Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Louvered Ventilators from the profile 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	6			
16	Supplying and fixing of M.S.grill of approved design for open courtyard, grill, grill work to doors and window openings etc., using necessary mild steel flats for inner and outer members which should be fixed on edges including priming coat of best approved quality red oxide primer etc., complete complying with standard specification.	Kg	2110			
17	Solid PVC door shutters using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square 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 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 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rabate for housing the shutter.Solid panel PVC door with frame	Sqm	19			
18	Plastering with Cement Mortar 1:5 (One cement and Five sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	Sqm	2250			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
19	Special ceiling plastering and finishing the exposed surface of all RCC items of work such as slabs, beams, sunshades, facia, canopy slab, staircase waist slab, landing slab etc., with Cement Mortar 1:3 (One Cement and Three Sand) 10mm thick including hacking the surfaces, providing cement mortar Noing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers	Sqm	905			
20	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' angel 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 speifications. Necessary opening and arrangements for fixing electrical fittings should be provided with suitable frame work etc.complete	Sqm	281			
21	Paving the floor with best quality Vitrified Tiles of size 600 x 600 x 8mm of approved colour, shade and quality laid in cement mortar 1:3 (one cement and three sand) 20mm thick in all floors and the top pointed with the white cement mixed same colour pigments etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)	Sqm	462			
22	Flooring with following ceramic tiles of size 305 x 305 x 6 mm laid over 20 mm thick cement mortar 1:3 (One Cement and Three Sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary, laying in position and pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)	Sqm	50			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
23	Dadoing walls with following best approved quality, white / colour glazed tiles of following sizes set in Cement Mortar 1:2 (One Cement and Two sand) 10mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg. / sq.m. neatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers. Dadoing with printed design colour glazed tiles of size 300mm x 200mm x 6mm.	Sqm	233			
24	Paving the floor with pre-polished concrete anti-skid step 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	81			
25	Weathering course in brick jelly lime concrete using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the departmental officers.	Cum	27			
26	Finishing the top of roof with one course of machine pressed tiles of size 230mm x 230mm x 20mm of approved quality 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	331			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
27	Applying the full putty using wall putty of approved quality over the new plastered wall surfaces and ceiling including scrapping, cleaning, applying putty and bringing the surfaces to a smooth of finish including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	Sqm	2550			
28	Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	Sqm	2550			
29	Painting two coats of newly plastered wall surface with ready mixed Exterior emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	Sqm	713			
30	Polishing the teak wood door with two coats of best French (Lac) polish with approved quality and brand over a coat of bee's waxing including preparing the wooden surface to receive polishing, etc., complete complying as per the standard specifications. (The make, quality and colour of french polish, bees wax should be got approved by the Executive Engineer before use on works.)	Sqm	36			
31	Painting new iron works such as steel doors, windows, ventilators, window bars, balusters etc., with two coats of best approved first quality and colour of synthetic enamel paint over one coat of red oxide priming coat in all floors including cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)	Sqm	98			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
32	Manufacturing, supplying and fixing of stainless steel hand rails for staircase using 50mm dia 304L grade stainless steel pipe of 1.60mm thick at required locations to a height of 900mm from finished floor level welded to 38mm dia stainless steel pipe post of 1.00 mm thick as vertical at 900mm centre with 2 No of 25 mm dia intermediate horizontal stainless steel pipe of 1.60 mm thick in between. The vertical pipe has to be welded to the 100 x 100 x 6mm MS base plate encased in the base concrete. The rate is inclusive of the charges for cutting, bending, welding, grinding, polishing, conveyance, electrical charges, etc. complete	Rm	28			
33	Supply and fixing 25 mm dia ornamental S.S curtain rod of approved quality with fancy brackets including cost and conveyance complying with standard specification.	Rm	62			
34	Supplying and fixing curtain cloth of polister with frill arrangements approved quality, colour and design for windows and doors of various sized including cost of curtain cloth, stitching charges and fixing in position etc., complete as directed by the Exicutive Engineer. Take a window of size 6'0" x 4'0" - 24 feet required materials	Sqm	71			
35	Supply and fixing of Hydraulic door closer of various sizes of approved quality using aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment like HARDWYN (make) 'GAZEL' or equivalent (with ISI Monogram)	Each	10			
36	Supply and fixing 6 lever brass mortise lock with fancy handle etc..complete complying with standadard specification.	Each	4			
37	Supplying and fixing brass Name / Number plate mentioning the Cottage Name engraved with 2" letter size as directed by the Departmental Officers.	Each	4			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
	<b>Water Supply</b>					
38	Supplying, laying and jointing G.I. Pipes of approved quality and best variety of "B" class pipe of the following dia including labour fixing G.I. Specials, (excluding charges for cutting and threading of pipes, cost of such specials) to wall with necessary teak wood plugs, clamps, screws, thread balls, shellac, etc., making holes on the walls (or) drilling holes in roof and making good the dismantled portions to original condition with necessary brick work / concrete and plastering wherever necessary with necessary scaffolding charges. The pipes are to be painted with the 2 coats of good variety and approved best quality of synthetic enamel paint over a priming coat of red oxide etc., complete in all floors complying with standard specification. G.I. pipes shall be got approved by the Executive Engineer before use on works <b>Laying pipe line of dia 32mm (From Bore well/sump to OHT) Above ground level.</b>	Rm	35			
39	Supplying, laying and jointing GI pipes of approved quality and best variety of B Class pipes of the following dia including labour for fixing GI Specials (excluding charges for cutting and threading and cost of such specials) with necessary shellac, thread ball, etc., and making holes on the wall / concrete and making good the dismantled portion to the original condition with necessary brick work / concrete. The pipes are to be painted with one coat of tar and tightly pastened with tar dipped gunny tape, etc., complete complying with standard specification. The G.I. pipes shall be got approved by the Executive Engineer before use on work <b>Laying pipe line of dia 32 mm (From Bore well/Sump to OHT) Below ground level</b>	Rm	30			
40	Supplying and fixing in position first quality and approved variety of Gun metal Gate Valve / Wheel 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.					
	Fixing GM Gate Valve dia 32mm	No	6			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
41	Supplying and fixing in position 15mm dia brass CP screw down tap / Pillar tap (heavy duty) of approved make conforming to BIS specifications and quality including cost of shellac, thread, etc., complete complying with standard specification and including					
	Pillar Tap	No	12			
42	Supplying and fixing 1/2" CP health unit 2 way bibcock with wall flange of approved make.(Parry Trio) as per standard specifications.					
a)	Long Body Tap 2 in 1 (ornamental type)	No	8			
b)	Health faucet stainless steel body	No	8			
43	Supplying and fixing best quality of C.P.wall mixer, overhead showerarm with rose and necessary fittings etc complying with standard specification..	No	8			
44	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	12			
45	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 tower rail should be got approved by Executive Engineer before use on works).	No	8			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
46	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	8			
47	Supplying and fixing C.P.type toilet Paper holder with flap of approved make (Parry Trio) as per Standard specifications. etc., complete complying with standard specification.	No	8			
48	Supplying and fixing in position GI unions of heavy duty of approved quality and good variety of various sizes including necessary cutting and threading of GI pipes for jointing the union and providing two coats of painting with good variety and approved quality of synthetic enamel paint over one coat of primer in case of pipe line above ground level / one coat of tar in case of below ground level for both internal and external water supply arrangements, etc., complete complying with standard specifications. (The GI unions should be got approved by Executive Engineer before use on works).					
	dia 32mm	No	8			
49	Supplying in position the following GI Specials of heavy type and approved quality and good variety excluding fixing charges but including necessary cutting and threading of GI pipes, jointing the GI specials and painting with two coats with good variety and best quality synthetic enamel paint over a coat of red oxide primer and jointing the specials with pipe line using shellac etc., complete complying with standard specification. (The GI specials should be got approved by the Executive Engineer concerned before use on works.)					
a)	GI Elbow (dia 32mm)	No	8			
b)	GI Bend (dia 32mm)	No	8			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
c)	GI Tee (dia 32mm)	No	6			
d)	GI Coupling (dia 32mm)	No	6			
e)	GI Reducer (dia 40mm to 32mm)	No	4			
50	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 "B" class GI waste pipe with rubber plug and chain, 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). <b>Colour Glazed Wash Hand Basin</b>					
a)	Without Pedestal	No	4			
b)	With Pedestal	No	4			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
51	Supplying and fixing in position best quality approved make white glazed earthenware sink of size of 600 x 450 x 200mm 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	4			
52	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 porcelin 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 No.), 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) Colour glazed European Water Closet with 12.5 litre capacity porcelin flushing tank fixed on to wall.	No	8			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
53	Supplying and fixing position CI Nahani Trap / Floor Trap of the following sizes with best stainless steel 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 CI / PVC pipes, etc., complete complying with standard specification. (The Nahani Trap should be got approved by the Executive Engineer before use on works)					
	Nahani Trap of size 100 x 75mm with stainless steel gratings	No	12			
54	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)	Dia 75 mm	Rm	83			
b)	Dia 110 mm	Rm	125			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
55	Supplying and fixing in position PVC specials of the following dia and types of approved quality confirming 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).					
a)	<b>PVC Elbow</b>					
i)	Dia 75 mm	No	20			
ii)	Dia 110 mm	No	20			
b)	<b>PVC Elbow with Door</b>					
i)	Dia 75 mm	No	20			
ii)	Dia 110 mm	No	20			
c)	<b>PVC Tee</b>					
i)	Dia 75 mm	No	20			
ii)	Dia 110 mm	No	20			
d)	<b>PVC Tee with Single Door</b>					
i)	Dia 75 mm	No	10			
ii)	Dia 110 mm	No	10			
e)	<b>PVC Bend</b>					

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
i)	Dia 75 mm	No	10			
ii)	Dia 110 mm	No	10			
f)	<b>PVC "Y"</b>					
i)	Dia 75 mm	No	14			
ii)	Dia 110 mm	No	14			
g)	<b>PVC "Y" with Single Door</b>					
i)	Dia 75 mm	No	10			
ii)	Dia 110 mm	No	10			
56	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).					
a)	Dia 75 mm	No	6			
b)	Dia 110 mm	No	6			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
57	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	8			
58	Supplying, laying and jointing PVC pipes (having working pressure 10 kg. / sq.cm) of approved quality 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 upto 4 metre height above ground level, etc., complete complying with standard specifications. The PVC pipes shall be got approved by Executive Engineer before use on works.					
a)	dia 15mm	Rm	50			
b)	dia 20mm	Rm	120			
c)	dia 25mm	Rm	120			
d)	dia 32mm	Rm	150			
59	Supplying PVC Specials (with working pressure 10 kg. / sq.cm.) in water supply arrangements (both in internal and external water supply arrangements)					
a)	<b>Coupler</b>					

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
i)	dia 15mm	No	10			
ii)	dia 20mm	No	24			
iii)	dia 25mm	No	24			
iv)	dia 32mm	No	30			
b)	<b>Elbow</b>					
i)	dia 15mm	No	17			
ii)	dia 20mm	No	40			
iii)	dia 25mm	No	40			
iv)	dia 32mm	No	50			
c)	<b>BEND</b>					
i)	dia 15mm	No	13			
ii)	dia 20mm	No	30			
iii)	dia 25mm	No	30			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
iv)	dia 32mm	No	38			
d)	<b>Tee</b>					
i)	dia 15mm	No	13			
ii)	dia 20mm	No	30			
iii)	dia 25mm	No	30			
iv)	dia 32mm	No	38			
e)	<b>End Cap</b>					
i)	dia 15mm	No	5			
ii)	dia 20mm	No	12			
iii)	dia 25mm	No	12			
iv)	dia 32mm	No	15			
f)	<b>Reducer</b>					
i)	20 mm x 15 mm	No	17			
ii)	25 mm x 20 mm	No	40			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
iii)	32 mm x 25 mm	No	40			
iv)	40 mm x 32 mm	No	10			
g)	<b>Reducer Elbow</b>					
i)	20 mm x 15 mm	No	40			
ii)	25 mm x 20 mm	No	20			
iii)	32 mm x 25 mm	No	20			
iv)	40 mm x 32 mm	No	10			
60	Supplying and fixing in position best approved of BIS quality 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 metre pipe length, etc., complete complying with standard specification.	Rm	66			
61	Constructing inspection Chamber of size 600x600mm including all works of earth work, C.C. in CM 1:5:10-200mm thick, Brick Work in C.M. 1:5, Plastering in C.M. 1:3, 20mm thick etc.complete.	No	10			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
62	Supplying and fixing in position CI manhole covers with CI frames (Heavy duty) of size 60cm x 60cm of best approved quality as per standard specification etc., complete complying with standard specifications	No	10			
63	Supplying and fixing in position Bathtub in size of 1670 X 760 X 400 mm of best approved quality as per standard specification etc., complete complying with standard specification.	No	4			
<b>Septic Tank</b>						
64	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	66			
65	Laying of dispersion trench 100mm dia. unglazed earthen ware pipe With necessary items. as per drawings completed all etc., complete complying with standard specification.	Rm	60			
66	Filling of 40mm - 63mm crushed stone With necessary items. as per drawings completed all etc., complete complying with standard specification.	Cum	2			
67	Filling of 20mm coarsed aggregate with necessary items. as per drawings completed all etc., complete complying with standard specification.	Cum	2			
68	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	53			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
	<b>Landscape</b>					
69	Supplying and stacking 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	45			
70	LAWN 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	150			
71	Rough dressing the soil by breaking the clods with wooden mallets 30mm size and removal of pebbles and stones	Sqm	150			
72	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	23			
73	Fine dressing the ground by breaking small clods if any and leveling the site due to uneven settlement during flooding	Sqm	150			
74	Dibbling of Korean / Mexican grass (including cost of grass)	Sqm	150			
75	Maintenance: Maintenance of Fescue grass / shade grass / carpet grass / Dhoob grass by regular watering, weeding, protection, mowing etc. for a period of three months.	Sqm	150			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
	<b>Electrical Items</b>					
76	TNEB METERING BOARD Supply , Erecting, connecting and commissioning of TNEB Meter Board suitable for 3 Phases 100 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 2 feet x 1 1/2 feet of 12 mm thickness with necessary bolts and nutts supports and supply and fixing of 3 No 100 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 7/16 PVC insulated copper wire with earth connection complete. (Derive From SD-130)	No	1.00			
77	Main LT Panel Supply , Erecting, connecting and commissioning of WALL / FLOOR MOUNTED CUBICLE TYPE SUB POWER PANEL necssary 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 :63 A TPN Switch with HRC Fuses - 2 No, 32 A TPN Switch with HRC Fuses - 5 No ,BUSBAR ALUMINIUM RATING : 100 AMPS , RYB Indicating Lamps of LED Clustered type ,Multifunction meter and Control MCBs shall be provided.(SD)	No	1.00			
78	Supply , wiring ,Testing and commissioning of 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).- (Derive from SD-23)	No	187.00			
79	Supply , wiring ,Testing and commissioning of 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.(Derive from SD-32)	No	6.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
80	Supply and run of 2 x 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 1x 1.5sqmm (36/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade and making good of the concealed portion with suitable colour (Derive from SD-55)	Mtr	1645.00			
81	Supply and run of 2 x 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 x 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.(Derive from SD-57)	Mtr	450.00			
82	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 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.( SD-203)	Mtr	160.00			
83	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 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.( SD-204)	Mtr	100.00			
84	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 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good. (SD-211)	Mtr	235.00			
85	Supply and Clamping of 4 c X 16 sqmm Al XLPE LTUG Armoured LTUG cable on post or on wall with MS Clamp (SD-221)	Mtr	55.00			
86	Supply and Clamping of 3.5 X 25 sqmm Al XLPE LTUG Armoured LTUG cable on post or on wall with MS Clamp (SD-222)	Mtr	40.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
87	Supply and Clamping of 3.5 X 95 sqmm Al XLPE LTUG Armoured LTUG cable on post or on wall with MS Clamp(SD-226)	Mtr	45.00			
88	Supply and fixing of brass cable gland for 4c x 16 sq.mm PVC LTUG armoured cable with earth connection (SD-183)	No	6.00			
89	Supply and fixing of brass cable gland for 3.5 x 25 sq.mm PVC LTUG armoured cable with earth connection (SD-186)	No	4.00			
90	Supply and fixing of brass cable gland for 3.5 x 95 sq.mm PVC LTUG armoured cable with earth connection (SD-190)	No	7.00			
91	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 (SD-235)	No	8.00			
92	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 (SD-239)	No	7.00			
93	4 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.(SD) Incoming : 32 A 4P ISO - 1 No Outgoing : 25 DP ELMCB - 3 No 6-10 A SP MCB 10kA - 12 No	No	2.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
94	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.(SD) Incoming : 63 A 4P ISO - 1 No Outgoing : 20 A SP MCB 10kA - 24 No	No	2.00			
95	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.(SD-233)	No	10.00			
96	Supply and run of 25mm x 3mm tinned copper flat with necessary clamps / supports on wall / floor / ground for earth connection (SD-76)	Mtr	40.00			
97	Supply and run of 25mm x 3mm tinned GI flat with necessary clamps / supports on wall / floor / ground for earth connection (Derive from SD-76)	Mtr	80.00			
98	Supply and run of 2 of No.8 SWG GI wire for guarding with cradle with No.8SWG GI wire at the equal interval of 1.5 meter.(SD-75)	Mtr	160.00			
99	Supply,Fixing,Testing and Commissioning of 18W LED recessed round type on wall or ceiling with PVC unsheathed copper leads from terminals to the fitting and etc to complete the work... (Derive from SD-83)	No	98.00			
100	Supply,Fixing,Testing and Commissioning of 1200mm 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....(Derive from SD-88)	No	34.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
101	Supply,Fixing,Testing and Commissioning 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... (Derive from SD-88)	No	5.00			
102	Supply,Fixing,Testing and Commissioning 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....(Derive from SD-88)	No	12.00			
103	Supply,Fixing,Testing and Commissioning of 5 W LED Night light with necessary supporting clamps fixed on the roof ,interconnections etc... (Derive from SD-83)	No	4.00			
104	Supply,Fixing,Testing and Commissioning of 10 W LED Bulk head light with necessary supporting clamps fixed on the roof ,interconnections etc... (Derive from SD-83)	No	19.00			
105	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....(SD-111)	No	14.00			
106	Supply and fixing of Exhaust Fans for 300 mm( 12") sweep (light duty) AC Exhaust fan with necessary supporting clamps fixed on the roof ,interconnections etc...(SD-115)	No	8.00			
107	Supply and fixing of Lover shutter arrangements for 300 mm( 12") sweep (light duty) AC Exhaust fan with necessary supporting clamps fixed on the roof ,interconnections etc...(SD-120)	No	8.00			
108	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... (Derive from SD-134)	No	20.00			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
109	Supply and fixing of 2 No 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... (Derive from SD-134)	No	14.00			
110	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... (Derive from SD-137)	No	8.00			
111	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... (Derive from SD-137)	No	8.00			
112	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... (Derive from SD-137)	No	8.00			
113	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).(SD-140)	No	8.00			
114	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			
115	Supply and fixing of AC / DC 76 mm Buzzer cal bell suitable for 230 V ,50 c/s single phase Ac supply on suitable TW board with Push Switch(SD-105)	No	4.00			
116	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....(SD-134)	No	8.00			
117	Supply and fixing of RJ45 Modular type wall UTP socket concealed in suitable Modular plate and frame with MS box with necessary supporting clamps fixed on the roof ,interconnections etc....(Derive From SD-134)	No	8.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
118	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 .(NSD)	No	1.00			
119	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...(NSD)	No	1.00			
120	Supply and laying of 2 Pair, 0.5mm telephone copper wire 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 making good and etc to complete the work (Derive from SD-26)	Mtr	600.00			
121	Supply and laying of LAN Cable Cat - 6 UTP Cable 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 making good of the concealed portion and etc to complete the work (Derive from SD-26)	Mtr	300.00			
122	62.5 kVA DG SET Supply and installation of 62.5 kVA / 50kW, SILENT Diesel Generating Set with CPCB II approved acoustic enclosure ,Diesel engine developing at 1500 RPM, complete with standard accessories. Rated at 62.5 kVA at 415 Volts with Manual control Panel , mounted on Channel Iron Base Frame complete with Control Panel and 01 no 12 V Batteries.(SD)	Mtr	1.00			
123	APPROVAL 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			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
124	<p>100 A CHANGE OVER SWITCH Supply and erection of 100 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.</p> <p>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.(SD)</p>	No	1.00			
125	<p>1.5 TR Split Type Ac Unit with Voltage Stabilizer :(5-Star:Make-Carrier /Voltas / O Genaral Or Equivqlent) : Supply,Installation and commisioning of 1.5 TR Split 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% litre/ 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 quality 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 quality certification and rating that matches with the power rating of the A/C unit</p>	No	8.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
126	<p>SAFETY EQUIPMENTS supply and delivery of the following safety equipments with allied material as required by the statutory authority like CEIG</p> <p>a) 10 kg capacity DCP type fire extinguisher -2 No 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- 4 Mtr</p>	Set	1.00			
127	Environmental test parameters such as Air,water,noise and soil periodically done pre construction,during construction and post construction on the site as directed by authorised testing agency.	Nos	4.00			
	<b>Add GST 12%</b>					
	<b>Schedule 1 - Hogenakkal Works Total</b>					
	<b>Signature of Contractor With Seal.</b>					

**Govt of Tamil Nadu, Tamil Nadu Tourism Development Corporation Limited**

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

**Construction of Banquet hall & Tourist hostel in district town of Trichy**

**Name and Address of the Bidder:**

**Schedule 2- Trichy**

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	1169			
2	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	400			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
3	Supplying and filling of well gravel by lorry in basement filling including conveyance loading and unloading charges and all other incidental charges filling laying watering and consolidation etc., complete complying with standard specifications and as directed by the Departmental Officers	Cum	160			
4	Supplying and filling with clean river sand in layers of not more than 15 cm thick including watering, consolidation etc, complete as directed by the Engineer incharge of works and as per the technical specifications	Cum	481			
5	Plain Cement Concrete 1:5:10 (One Cement, Five sand and Ten hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick well rammed, consolidated and curing etc. complete complying with standard specification	Cum	84			
6	Damp proof course with Cement Mortar 1:4 (One Cement and Four sand) 12mm thick mixed with best approved quality 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	75			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
7	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 cu.m ) 7730 kg of 20mm machine crushed stone jelly and with about (3.3 cu.m) 5156 kg of 10-12mm machine crushed stone jelly and about (4.79 cu.m) 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					
a)	Upto Basement	Cum	154			
b)	In Ground floor	Cum	136			
c)	In First floor	Cum	116			
d)	In Second floor	Cum	116			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
e)	In Third floor & Terrace floor	Cum	158			
8	Supplying, fabricating and placing in position Fe500 of 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	93			
9	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	706			
10	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 plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.complete complying with standard specification.	Sqm	1020			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
b)	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.complete complying with standard specification.	Sqm	2951			
c)	For plane surfaces such as vertical slab, side slabs of boxing, vertical drops, facia, vertical wall, etc. complete complying with standard specification.	Sqm	226			
11	Brickwork in cement mortar 1:5 using best quality of second class ground moulded chamber burnt bricks 9"x4'-1/2"x3" for foundation and basement including curing,etc., complete complying with standard specification					
a)	In Basement	Cum	40			
b)	In Ground floor	Cum	73			
c)	In First floor	Cum	88			
d)	Second Floor	Cum	88			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
e)	Third Floor	Cum	91			
12	Brick partition walls of 11.50cm thickness using best quality II Class Ground Moulded Chamber Burnt Bricks of size 9" x 4-1/2" x 3" 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	Sqm	82			
b)	In First floor	Sqm	109			
c)	Second Floor	Sqm	109			
d)	Third Floor	Sqm	141			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
13	Special ceiling plastering and finishing the exposed surface of all RCC items of work such as slabs, beams, sunshades, fascia, canopy slab, staircase waist slab, landing slab etc., with Cement Mortar 1:3 (One Cement and Three Sand) 10mm thick including hacking the surfaces, providing cement mortar Noing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers	Sqm	505			
14	Plastering with Cement Mortar 1:5 (One cement and five sand),12mm thick including cost and conveyance of all materials and all labour charges,curing etc., complete complying with standard specifications.	Sqm	4465			
15	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 finishing, curing, etc., complete in all floors complying with standard specification and as directed by the departmental officers.	Sqm	1640			
16	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	6495			
17	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	510			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
18	Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint of first class quality 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	3333			
19	Painting two coat with approved water based Exterior Emulsion over the cement plastered wall surface, ceiling and other new surface including clearing preparing the surface curing in all floors including brushes etc., complete as per specification.	Sqm	1642			
20	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	145			
21	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	135			
22	Providing Granolithic floor finish 40mm thick with CC 1:2:4 10 to 12 mm metal including cost of all materials and labor charges for laying rubbing the top surface for smooth etc., complete complying with standard specifications.	Sqm	15			
23	Paving the floor with best quality Vitrified Tiles of size 600 x 600 x 10mm of approved colour, shade and quality laid in cement mortar 1:3 (one cement and three sand) 20mm thick in all floors and the top pointed with the white cement mixed same colour pigments etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)	Sqm	1210			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
24	Flooring with Anti Skid ceramic tiles of approved quality, colour design and of size 30cmx30cm laid in cement mortar 1:3 (One Cement and Three Sand) 20mm thick including pointing the joints with same colour cement to the full depth of the tiles including cost and conveyance of all materials and labour etc. complete.	Sqm	160			
25	Dadoing walls with following best approved quality, white / colour glazed tiles of following sizes set in Cement Mortar 1:2 (One Cement and Two sand) 10mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg. / sq.m. neatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers. Dadoing with printed design colour glazed tiles of size 300mm x 200mm x 6mm .	Sqm	1015			
26	Paving the floor with <b>Polished Kotta stone</b> slabs 20mm with machine cut edges of 600 x 600 mm 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	95			
27	Paving the floor with best approved quality 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 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 matching 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 specification.	Sqm	21			
28	Finishing the top of roof with one course of Machine Pressed tiles of size 20cmx20cmx20mm of approved quality laid in 1:3,12mm thick mixed with water proofing compound 2% by weight of cement used etc., complete with standard specification	Sqm	455			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
29	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 Scantlings 2m in length	Cum	0.25			
b)	Teak Wood Scantlings 2m to 3m in length	Cum	0.95			
30	Supplying and fixing of Flush door shutter using Teak wood frame of size 127mm x 76mm and Door shutters Single leaf in position using 35mm thick solid core Flush shutters with teak ply on both sides with teak wood lipping around including cost and labour for fixing the hold fasts and furniture fittings etc.,complete as directed by the departmental officers complying with standard specification.	Sqm	69			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
31	<p>UPVC Window</p> <p>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</p>	Sqm	127			
32	<p>UPVC Ventilator</p> <p>Specification: Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Louvered Ventilators from the profile 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</p>	Sqm	10			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
33	Solid PVC door shutters using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square 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 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 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rabate for housing the shutter.Solid panel PVC door with frame	Sqm	59			
34	Supply and fixing Window M.S.Grill of approved design including welding,transporatation and one coat of primer etc.,complete complying with standard specifiction.	Kg	2740			
35	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 tubeless support made of 304 L grade stainless steel pipe of 25 mm 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 specifiction.	RM	45			
36	Plastering with Cement Mortar 1:3 (One Cement and Three Sand) 12mm 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	219			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
37	Weathering course in brick jelly lime concrete using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the departmental officers.	Cum	37			
38	Providing and fixing rectangular shape 610x455mm C.I. Manhole cover with frame etc, complete complying with standard specification.	No	3			
39	Supplying and Fixing MS Ladder width 45cm using 50x50x6mm MS Angle and as per the direction of Engineer in-charge.	Rm	5			
40	Supplying and fixing in position of 10mm thick Gypsum board FALSE CEILING arrangements with aluminium anodised 'T' Section and 'L' angle frame work of grid size 60x60cm with aluminium T section and 'L' angel of size 25x25x2mm thick and the same issupported @ 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 speifications. Necessary opening and arrangements for fixing electrical fittings should be provided with suitable frame work etc.complete complying with standard specification.					
a)	Plain false ceiling	Sqm	504			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
b)	Design and ornamental false ceiling	Sqm	174			
41	Environmental test parameters such as Air,water,noise and soil periodically done pre construction,during construction and post construction on the site as directed by authorised testing agency.	No	4			
42	Supplying and Paving the Paver Block flooring using Rubber mould paver block ( Colour ) of standard size over the sand filling of 80mm 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	1205			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
	<b>Water Supply</b>					
43	Supplying, laying and jointing G.I. Pipes of approved quality and best variety of "B" class pipe of the following dia including labour for fixing G.I. Specials, (excluding charges for cutting and threading of pipes, cost of such specials) to wall with necessary teak wood plugs, clamps, screws, thread balls, shellac, etc., making holes on the walls (or) drilling holes in roof and making good the dismantled portions to original condition with necessary brick work / concrete and plastering wherever necessary with necessary scaffolding charges. The pipes are to be painted with the 2 coats of good variety and approved best quality of synthetic enamel paint over a priming coat of red oxide etc., complete in all floors complying with standard specification. G.I. pipes shall be got approved by the Executive Engineer before use on works. <b>Laying pipe line of dia 32mm (From Bore well/sump to OHT) Above ground level.</b>	Rm	45			
44	Supplying, laying and jointing GI pipes of approved quality and best variety of B Class pipes of the following dia including labour for fixing GI Specials (excluding charges for cutting and threading and cost of such specials) with necessary shellac, thread ball, etc., and making holes on the wall / concrete and making good the dismantled portion to the original condition with necessary brick work / concrete. The pipes are to be painted with one coat of tar and tightly pastened with tar dipped gunny tape, etc., complete complying with standard specification. The G.I. pipes shall be got approved by the Executive Engineer before use on work <b>Laying pipe line of dia 32 mm (From Bore well/Sump to OHT) Below ground level.</b>	Rm	30			
45	Supplying and fixing in position first quality and approved variety of Gun metal Gate Valve / Wheel 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)	<b>Gun Metal Gate Valve</b>					

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
(i)	dia 25mm	No	8			
(ii)	dia 32mm	No	8			
b)	<b>Gun Metal Wheel Valve</b>					
(i)	dia 32mm	No	4			
46	Supplying and fixing in position 15mm dia brass CP screw down tap / Pillar tap (heavy duty) of approved make conforming to BIS specifications and quality including cost of shellac, thread, etc., complete complying with standard specification and including cutting and threading wherever necessary. (Taps should be got approved by the Executive Engineer before use on the works)					
a)	SD Tap	No	37			
b)	Swan Neck Tap	No	1			
47	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 woks)	No	21			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
48	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 tower rail should be got approved by Executive Engineer before use on works).	No	21			
49	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	21			
50	Supplying and fixing in position GI unions of heavy duty of approved quality and good variety of various sizes including necessary cutting and threading of GI pipes for jointing the union and providing two coats of painting with good variety and approved quality of synthetic enamel paint over one coat of primer in case of pipe line above ground level / one coat of tar in case of below ground level for both internal and external water supply arrangements, etc., complete complying with standard specifications. (The GI unions should be got approved by Executive Engineer before use on works).					
	dia 32mm	No	15			
51	Supplying and fixing in position the following GI Specials of heavy type and approved quality and good variety excluding fixing charges but including necessary cutting and threading of GI pipes, jointing the GI specials and painting with two coats with good variety and best quality synthetic enamel paint over a coat of red oxide primer and jointing the specials with pipe line using shellac etc., complete complying with standard specification. (The GI specials should be got approved by the Executive Engineer concerned before use on works.)					

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
a)	GI Elbow (dia 32mm)	No	8			
b)	GI Bend (dia 32mm)	No	8			
c)	GI Tee (dia 32mm)	No	2			
d)	GI Coupling (dia 32mm)	No	2			
e)	GI Reducer (dia 40mm to 32mm)	No	1			
52	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 of 15mm dia brass CP pillar tap, 32mm dia "B" class GI waste pipe with rubber plug and chain, 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 TV 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). <b>Colour Glazed Wash Hand Basin</b>					

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
a)	Without Pedestal	No	17			
b)	With Pedestal	No	2			
53	Supplying and fixing in position best quality approved make white glazed earthenware sink of size of 600 x 450 x 200mm 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	4			
54	Supplying and fixing in position best quality cuddapah sink of following sizes 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] <b>Cuddapah sink of 600 x 600 x 200mm</b>	No	1			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
55	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 No.), 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) Colour glazed European Water Closet with 12.5 litre capacity porcelain flushing tank fixed on to wall.	No	20			
56	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 No., 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	2			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
57	Supplying and fixing position CI Nahani Trap / Floor Trap of the following sizes with best stainless steel 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 CI / PVC pipes, etc., complete complying with standard specification. (The Nahani Trap should be got approved by the Executive Engineer before use on works) Nahani Trap of size 100 x 75mm with stainless steel gratings	No	38			
58	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)	Dia 75 mm	Rm	260			
b)	Dia 110 mm	Rm	430			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
59	Supplying and fixing in position PVC specials of the following dia and types of approved quality confirming 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).					
a)	<b>PVC Elbow</b>					
i)	Dia 75 mm	No	45			
ii)	Dia 110 mm	No	80			
b)	<b>PVC Elbow with Door</b>					
i)	Dia 75 mm	No	12			
ii)	Dia 110 mm	No	18			
c)	<b>PVC Tee</b>					
i)	Dia 75 mm	No	12			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
ii)	Dia 110 mm	No	18			
d)	<b>PVC Tee with Single Door</b>					
i)	Dia 75 mm	No	12			
ii)	Dia 110 mm	No	18			
e)	<b>PVC Bend</b>					
i)	Dia 75 mm	No	12			
ii)	Dia 110 mm	No	18			
f)	<b>PVC "Y"</b>					
i)	Dia 75 mm	No	12			
ii)	Dia 110 mm	No	25			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
g)	<b>PVC "Y" with Single Door</b>					
i)	Dia 75 mm	No	12			
ii)	Dia 110 mm	No	18			
60	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).					
a)	Dia 75 mm	No	20			
b)	Dia 110 mm	No	25			
61	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	17			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
62	Supplying, laying and jointing PVC pipes (having working pressure 10 kg. / sq.cm) of approved quality 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.					
a)	dia 15mm	Rm	85			
b)	dia 20mm	Rm	200			
c)	dia 25mm	Rm	400			
d)	dia 32mm	Rm	320			
63	Supplying PVC Specials (with working pressure 10 kg. / sq.cm.) in water supply arrangements (both in internal and external water supply arrangements					
a)	<b>Coupler</b>					

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
i)	dia 15mm	No	17			
ii)	dia 20mm	No	40			
iii)	dia 25mm	No	80			
iv)	dia 32mm	No	64			
b)	<b>Elbow</b>					
i)	dia 15mm	No	28			
ii)	dia 20mm	No	67			
iii)	dia 25mm	No	133			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
iv)	dia 32mm	No	107			
c)	<b>BEND</b>					
i)	dia 15mm	No	21			
ii)	dia 20mm	No	50			
iii)	dia 25mm	No	100			
iv)	dia 32mm	No	80			
d)	<b>Tee</b>					
i)	dia 15mm	No	21			
ii)	dia 20mm	No	50			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
iii)	dia 25mm	No	100			
iv)	dia 32mm	No	80			
e)	<b>End Cap</b>					
i)	dia 15mm	No	9			
ii)	dia 20mm	No	20			
iii)	dia 25mm	No	40			
iv)	dia 32mm	No	32			
f)	<b>Reducer</b>					
i)	20 mm x 15 mm	No	70			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
ii)	25 mm x 20 mm	No	40			
iii)	32 mm x 25 mm	No	40			
iv)	40 mm x 32 mm	No	20			
g)	<b>Reducer Elbow</b>					
i)	20 mm x 15 mm	No	40			
ii)	25 mm x 20 mm	No	20			
iii)	32 mm x 25 mm	No	20			
iv)	40 mm x 32 mm	No	10			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
64	Supplying, laying and jointing glazed stone ware pipes of the following dia of approved quality with spigot and socket ends and fixing them in dry condition using spun yarn and cement including petty masonry shoring and strutting wherever found necessary and laying the pipe line in the alignment at the specified gradient and testing with necessary tools and plants, etc., and re-filling the trench with excavated earth and levelling the ground etc., complete complying with standard specifications.					
a)	150mm dia stoneware pipe (cement joint)	Rm	60			
b)	100mm dia stoneware pipe (cement joint)	Rm	30			
65	Supply and Installation of automatic Pressure Boosting pump system	No	1			
66	Construction of Inspection Chamber of inner dimension 60cmx60cmx75cm depth in country bricks in CM 1:5 using country bricks of size 83/4x41/4x21/4 for side wall of 23cm thick over foundation of CC1:4:8 23CM thick over base layer of sand 15cm tk plastered with CM 1:3 - 20mm thick including Chaneling line to smooth and glossy and covering with RCC Precast slab 5cm thick	No	15			
67	Supplying and fixing in position best approved of BIS quality 110 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 metre pipe length, etc., complete complying with standard specification.	Rm	125			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
	<b>Electrical works</b>					
68	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 3 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 No 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. (Derive From SD-131)	No	1.00			
69	Main LT Panel 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 : 63 A TPN Switch with HRC Fuses - 13 No, BUSBAR -ALUMINIUM RATING : 250 AMPS , RYB Indicating Lamps of LED Clustered type ,Multifunction meter and Control MCBs shall be provided.(SD)	No	1.00			
70	Supply,Wiring,Testing and commissioning of 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 and etc to complete the work for light point / Fan point (For Electronics Regulator).- (Derive from SD-23)	No	330.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
71	Supply,wiring,Testing and commissioning of 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 and etc to complete the work for Rooms like bath, Toilet & Pump room etc.,(Derive from SD-26)	No	11.00			
72	Supply,Wiring,Testing and commissioning of 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 and etc to complete the work .(Derive from SD-32)	No	7.00			
73	Supply,Wiring,Testing and commissioning of 2 x 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 x 1.5sqmm (22/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade and making good of the concealed portion with suitable colour and etc to complete the work (Derive from SD-55)-From DB to Switch Board	Mtr	1801.00			
74	Supply,Wiring,Testing and commissioning of 2 x 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 x 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 and etc to complete the work.(Derive from SD-57)	Mtr	1242.00			
75	Supply,Laying,Testing and commissioning of 3.5 x 25 sq.mm PVC AL Armoured LTUG cable in a trench to be excavated at a depth of 0.75 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good and etc to complete the work.( SD-204)	Mtr	290.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
76	Supply,Laying,Testing and commissioning of 3.5 x 35 sq.mm PVC AL Armoured LTUG cable in a trench to be excavated at a depth of 0.75 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make (SD-205)	Mtr	160.00			
77	Supply,Laying,Testing and commissioning of 3.5 x 185 sq.mm PVC AL Armoured LTUG cable in a trench to be excavated at a depth of 0.75 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good and etc to complete the work. (SD-211)	Mtr	195.00			
78	Supply and Clamping of 3.5 X 25 sqmm Al XLPE LTUG Armoured LTUG cable on post or on wall with MS Clamp and etc to complete the work (SD-222)	Mtr	150.00			
79	Supply and Clamping of 3.5 X 35 sqmm Al XLPE LTUG Armoured LTUG cable on post or on wall with MS Clamp and etc to complete the work (SD-223)	Mtr	75.00			
80	Supply and Clamping of 3.5 X 185 sqmm Al XLPE LTUG Armoured LTUG cable on post or on wall with MS Clamp and etc to complete the work(SD-229)	Mtr	36.00			
81	Supply and fixing of brass cable gland for 3.5 x 25 sq.mm PVC LTUG armoured cable with earth connection and etc to complete the work (SD-186)	No	14.00			
82	Supply and fixing of brass cable gland for 3.5 x 35 sq.mm PVC LTUG armoured cable with earth connection and etc to complete the work (SD-187)	No	8.00			
83	Supply and fixing of brass cable gland for 3.5 x 185 sq.mm PVC LTUG armoured cable with earth connection and etc to complete the work (SD-193)	No	7.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
84	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 and etc to complete the work (SD-235)	No	14.00			
85	Supply and providing cable end termination of 3.5 x 35 sqmm PVC LTUG Aluminium armoured cable with necessary aluminium cable sockets by crimping etc. with electrical connection and etc to complete the work (SD-236)	No	8.00			
86	Supply and providing cable end termination of 3.5 x 185 sqmm PVC LTUG Aluminium armoured cable with necessary aluminium cable sockets by crimping etc. with electrical connection and etc to complete the work (SD-242)	No	7.00			
87	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.(SD) Incoming : 32A 4P ISO - 1 No Outgoing : 25 DP ELMCB - 3 No 6A SP MCB 10kA - 9 No 10A SP MCB 10kA - 9 No	No	4.00			
88	4 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.(SD) Incoming : 63 A 4P ISO - 1 No Outgoing : 40 DP ELMCB - 3 No 20 A SP MCB 10kA - 12 No	No	5.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
89	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 and etc to complete the work.(SD-233)	No	13.00			
90	Supply and run of 25mm x 3mm tinned copper flat with necessary clamps / supports on wall / floor / ground for earth connection and etc to complete the work (SD-76)	Mtr	40.00			
91	Supply and run of 25mm x 3mm tinned GI flat with necessary clamps / supports on wall / floor / ground for earth connection and etc to complete the work (Derive from SD-76)	Mtr	105.00			
92	Supply and run of 2 of No.8 SWG GI wire for guarding with cradle with No.8SWG GI wire at the equal interval of 1.5 meter and etc to complete the work.(SD-75)	Mtr	90.00			
93	Supply and Fixing of 18W LED Down light Square Type Recessed on wall or ceiling with PVC unsheathed copper leads from terminals to the fitting and to complete necessary accessories and etc to complete the work(Derive from SD-83)	No	103.00			
94	Supply and Fixing of 1200mm 20W LED Tube Fitting with TW round blocks on wall or ceiling with PVC unsheathed copper leads from terminals to the fitting and etc to complete the work.(Derive from SD-88)	No	27.00			
95	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 and etc to complete the work (Derive from SD-88)	No	19.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
96	Supply and Fixing of 2X2 40 W Surface mounted LED Fitting with PVC unsheathed copper leads from terminals to the fitting and etc to complete the work.(Derive from SD-88)	No	96.00			
97	Supply and Fixing of 70W High Bay LED Fitting with PVC unsheathed copper leads from terminals to the fitting and etc to complete the work.(Derive from SD-88)	No	3.00			
98	Supply and Fixing of 70W Peripheral LED Fitting with PVC unsheathed copper leads from terminals to the fitting and etc to complete the work.(Derive from SD-88)	No	5.00			
99	Supply and Fixing of 5 W LED Night light on wall with PVC unsheathed copper leads from terminals to the fitting and to complete necessary accessories and etc to complete the work .(Derive from SD-83)	No	17.00			
100	Supply and Fixing of 10 W LED Bulk head light on wall with PVC unsheathed copper leads from terminals to the fitting and to complete necessary accessories and etc to complete the work(Derive from SD-83)	No	15.00			
101	Supply,installation and commissioningof 1400 mm (56") AC ceiling fan complete with stepped electronic 300W regulator with 300mm down rod on the existing clamp on wall or ceiling with PVC unsheathed copper leads from terminals to the fitting and to complete necessary accessories& interconnections and to complete to work etc.(SD-111)	No	33.00			
102	Supply,installation and commissioningof Exhaust Fans for 300 mm( 12") sweep (light duty) AC Exhaust fan on wall with PVC unsheathed copper leads from terminals to the fitting and to complete necessary accessories& interconnections and to complete to work etc (SD-115)	No	19.00			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
103	Supply,installation and commissioning of Lower shutters arrangements for 300 mm( 12") sweep (light duty) AC Exhaust fan on wall with PVC unsheathed copper leads from terminals to the fitting and to complete necessary accessories& interconnections and to complete to work etc (SD-120)	No	19.00			
104	Supply and fixing of 6A 3 pin and 2 Pin combined flush type wall socket with 6A flush type switch concealed in suitable MS Box in flush with wall and concealed with 3mm thick hylem Sheet and etc to complete the work (Derive from SD-134)	No	55.00			
105	Supply,installation and commissioning of 2 No 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 and etc to complete the work (Derive from SD-134)	No	29.00			
106	Supply and fixing of 6A/16 A 3 pin combined flush type wall socket with 16 A flush type switch concealed in suitable MS Box in flush with wall and concealed and etc to complete the work (Derive from SD-137)	No	12.00			
107	Supply and fixing of 6A / 16A 3 pin combined Modular type wall socket on suitable MS flush box -For Gyser Point (Derive from SD-137)	No	17.00			
108	Supply and fixing of 16A modular type switch on suitable MS flush box For Gyser Point (Derive from SD-137)	No	17.00			
109	Supply & Fixing of 20 Amps DP Plug and Socket in Sheet Enclosure with 32 A DP MCB in Flush with wall with earth connection and etc to complete the work (For AC Plug)(Make -Legrand,Hager,L&T or Equivalent ).(SD-140)	No	24.00			
110	Supply and fixing of AC / DC 76 mm Buzzer cal bell suitable for 230 V ,50 c/s single phase Ac supply on suitable TV board with Push Switch and etc to complete the work (SD-105)	No	17.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
111	Supply and fixing of RJ11 Modular type wall TV socket concealed in suitable Modular plate and frame with MS box and etc to complete the work.(SD-134)	No	16.00			
112	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 and etc to complete the work	No	3.00			
113	Supply and fixing of RJ45 Modular type wall UTP socket concealed in suitable Modular plate and frame with MS box.For Telephone Socket and etc to complete the work (Derive From SD-134)	No	16.00			
114	Supplying, fixing, testing and commissioning of 24 port Gigabit switch and CAT-6 24 Data port switch with patch panel including all accessories and etc to complete the work .(NSD)	No	1.00			
115	Supply and fixing of 30 Pair Telephone Distribution Box with back mount frame krone connector, powder coated metal body with lock and key arrangement and etc to complete the work (NSD)	No	1.00			
116	Supply and laying of 2 Pair, 0.5mm telephone copper wire 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 making good and etc to complete the work (Derive from SD-26)	Mtr	635.00			
117	Supply and laying of LAN Cable Cat - 6 UTP Cable 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 making good of the concealed portion and etc to complete the work (Derive from SD-26)	Mtr	240.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
118	Supply and laying of RJ 11 TV cable 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 making good of the concealed portion and etc to complete the work (Derive from SD-26)	Mtr	600.00			
119	Supply and laying of 30 pair cable in suitable PVC rigid pipe in ceiling with PVC accessories and making good and etc to complete the work .	Mtr	100.00			
120	160 kVA DG SET Supply .Erection Testing & Commissioning of 160 kVA , 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.(SD)	No	1.00			
121	APPROVAL Preparing and obtaining the approval from TNEB / CEIG 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			
122	250 A CHANGE OVER SWITCH Supply .Erection Testing & Commissioning 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.(NSD)	No	1.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
123	<p>Lightning arrester: Supply .Erection Testing &amp; Commissioning of Early Emission Air terminal (ESEAT) Model:S. The ESEAT has corrosion resistant stainless chorme body made up od AISI 316 grade of height 0.5 meters capable of working in hazardours atmosphere.The unit is fully antonomous (No battery ,no external power supply is required),collect energy from the ambient electric field.The ESEAT model has been tected in high voltage labouratory 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 <math>\mu</math>s. 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 doen conductor with necessary clamps / supports on wall /floor/ ground for eart connection ,Test link box shall be down conductor in order to disconnect the earth termination system,Earth eletrode 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 lighting switching action etc.Thet must be installed in the incoming MCC panel /DB of the respestive bulling in parallel to the power circuit Model : PSV4-12.5/400TT (3 PHASE POWER NETWORK) -(SD)</p>	No	1.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
124	1.5 TR Split Type Ac Unit with Voltage Stabilizer :(5-Star:Make-Carrier /Voltas / O Genaral Or Equivqlent) : Supply,Installation and commisioning of 1.5 TR Split 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% litre/ 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 quality 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 quality certification and rating that matches with the power rating of the A/C unit	No	17.00			
125	2 TR Split Type Ac Unit with Voltage Stabilizer :(5-Star:Make-Carrier /Voltas / O Genaral Or Equivqlent) : Supply,Installation and commisioning of 2 TR Split Type Ac Unit (5-Star) comprising of 1.Cooling Capacity Nominal (Kcal/hr) : 7 Kw± 2% ,2.Coefficient of performance: 3.5 (Minimum),3.Max. Ambient temperature : 48 degree C ± 5%,4.Moisture removal rate : 2 ± 10% litre/ 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 quality 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 quality certification and rating that matches with the power rating of the A/C unit	No	7.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
126	Supply and erection of 13 persons (884Kgs) passenger lift, Type of lift-Enduronic Passenger with the speed of 0.50meter per second having drive of micro processor based VVVF:Floor display char-0,1,2,3 ; Number of landing entrance-4(Ground+3 upper floors); Number and position of car entrances-one in front only; Position of machinery-Directly above the kift well geared;Size of lift well-200x1900mm;Lift car inside 2000x1100x2200mm ; Design of Lift Car -Stainless steel hairline finish;Car ceiling-Sleek(Small circular lights); Car fittings-LED lights & Regular circular fan;Type of car front entrance protection-Power operated centre opening sliding door-Stainless steel Hairline finish;Type of control System-Micro Processor based simplex selective collective control with /without attendant;Electric supply-AC 400/440volts,3 phase,50 cycles.	No	1.00			
127	SAFETY EQUIPMENTS 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 No b) First aid box small size -1 Set c) first aid resuscitation chart laminated both in local language and English -1 Set d)Rubber Mats-4 Mtr	No	1.00			
	<b>Add GST 12%</b>					
	<b>Schedule 2 - Trichy Works Total</b>					
	<b>Signature of Contractor With Seal.</b>					

**Govt of Tamil Nadu, Tamil Nadu Tourism Development Corporation Limited**

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

**Renovation of heritage Tourist centre in Kanyakumari in Tamil Nadu.**

**Name and Address of the Bidder:**

**Schedule 3- Kanyakumari**

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
1	Dismantling clearing away and shifting the old RCC slabs including shifting the unwanted materials to outside the complex with a conveyance up to 5km including loading and unloading charges etc.complete complying with standard specification.	Cum	3.00			
2	Dismantling clearing away and carefully stacking the useful materials for reuse of RR masonry / brick masonry walls in cement mortar in G.F. including shifting the unwanted materials to outside the complex with a conveyance up to 5km including loading and unloading charges etc.complete complying with standard specification.	Cum	13.00			
3	Dismantling clearing away and carefully stacking the useful materials for reuse of ceramic tile flooring / wall dadoing /Mosaic flooring / pressed tiles flooring etc. complete including shifting the unwanted materials to outside the complex with a conveyance up to 5km including loading and unloading charges etc.complete complying with standard specification.	Sqm	855.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
4	Dismantling clearing away and carefully stacking the useful materials for reuse of old glazed window shutters / paneled door shutters, sitout hand rails including removal of grills and furniture fittings etc complying with standard specification.	Sqm	65.00			
5	Dismantling clearing away and carefully stacking useful materials for reuse of Mangalore tile roof without roof timbers but including purlins in ground floor complying with standard specification	Sqm	400.00			
6	Brick work in cement mortar 1:5, using second class bricks of size 9"x4 3/8"x2 3/4" including cost and conveyance of all materials complying with standard specification.					
a)	For Foundation and Basement	Cum	5.00			
b)	For super structure in G.F	Cum	9.00			
7	Supply and fixing RCC precast slab of 50mm thick and required size made with RCC 1:2:4 using 20mm HBG jelly and 10mm RTS rods at a spacing of 150mm c/c, on both direction including cost and conveyance of all materials etc complete complying with standard specification.	Sqm	14.00			
8	Plastering with cement mortar 1:5, 12mm thick over the Brick wall surfaces including cost and conveyance of all materials curing etc., complete complying with standard specification.	Sqm	85.00			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
9	Plastering with cement mortar 1:5, 20 mm thick after chipping the old plastered wall surfaces including cost and conveyance of all materials, curing etc.complete,complying with standard specification.	Sqm	344.00			
10	Supply and fixing C.W wrought and put up for rafters, purlins, Eve board etc., up to 4m length in roof work including cost and conveyance of all materials complying with standard specification.	Cum	1.00			
11	Supply & fixing T.W wrought and put up for frames of doors & windows for the following length and required size including provision for providing ornamental carvings on front face of the frames and MS hold fasts etc as directed by the Departmental officers complying with standard specification.					
	Above 2m length	Cum	0.11			
12	Providing and fixing of Mangalore tile of double channeled of size 375mm x 200mm, red in colour,regular in shape and free from cracks and shall not absorb water more than 1/6th than the weight of approved quality and brand (quilon). The tile shall be laid in such a way that they fit properly and rest firmly on the existing patterns.The tiles over the walls and the lowest eave tiles shall be laid in lime mortar 1:2.The rate is including cost and conveyance of all materials with necessary scaffolding arrangements, painting of the purlins with two coats of enamel paint over one coat of primer etc.complying with standard specification.	Sqm	380.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
13	Supply and fixing Mangalore ridge tiles of approved quality, terra cotta in color, regular in shape and free from cracks and shall not absorb water more than 1/6th than the weight laid over lime mortar 1:2 in the roof including cost and conveyance of all materials complying with standard specification.	RM	40.00			
14	Repointing the pressed tiles joints with cement mortar 1:3 mixed with crude oil at 1% by weight of cement to full depth of the tiles after racking out the mortar in the joints as per standard specification.	Sqm	90.00			
15	Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Windows of casement type (Two track) 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 multichambered 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	14.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
16	Supply and fixing powder coated Alu.fixed glass panels with door shutter of required size at a spacing of not more than 0.90m on horizontal and vertical direction using 62mm x 37 x 1.5 mm and 100mm x 37x 1.5 mm size single track alu. sections with glazing clips and 5 mm thick pin head glass fixed with rubber beading etc. including cost of all furniture fittings such as Alu. hinges, tower bolts and handles etc as directed by the Departmental officers complying with specification.	Sqm	6.00			
17	Supply & fixing readymade flush door shutter of 30mm thick and required size(1.00m x 2.05 m) with necessary Teak wood lippings around the shutter and cost of furniture fittings such as 125mm x 30mm Aluminium hinges -3No, 200mm x 12mm Aluminium tower bolts - 2 No, & 150mm Aluminium handle - 2No for each shutter including labour charges for fixing etc., complete as directed by the Departmental officers complying with standard specification.	Sqm	3.00			
18	Supply & fixing TW paneled door shutters of required size (0.68m x 2.30m) using 150mm x 40mm scantling for styles and bottom & middle rail 230mm x 40mm scantlings for top rail and 25mm thick planks for paneling the rate is including supply and fixing furniture fittings such as 150mm x 25 mm Brass hinges - 4No 200mm x 12 mm Brass tower bolt - 2No Brass Door stopper - 1 No, 200mm Brass handle - 2No, etc., as directed by the Departmental officers complying with standard specification.	Sqm	4.00			
19	Supplying, laying and jointing 25mm dia (ID) PVC pipes of 15 Kg/cm2 class with necessary PVC specials of approved quality with ISI mark and fixing to wall/floor with PVC clamp dismantling and redoing the masonry works that cross on the way etc complete under external water supply arrangement below ground level as directed by the Departmental officers complying with standard specification.	RM	15.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
20	Supply of the following sizes of GM gate valves of approved quality conforming to ISS with ISI mark complying with standard specification.					
	25mm G.I Gate Valve	No	1.00			
21	Supplying, laying and jointing CPVC pipes of 20mm dia meter and best variety conforming to ISS including fixing CPVC specials but excluding cost of such specials and fixing to wall in a concealed manner, making holes on the wall or drilling holes in roof etc and making good of the dismantled portions etc complete under concealed internal water supply arrangements..	RM	20.00			
22	Supply of the following sizes of CPVC specials of approved quality conforming to ISS complying with standard specification.					
a)	20mm CPVC Plain Elbow	No	5.00			
b)	20mm CPVC Plain Tee	No	2.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
c)	20mm x 15mm Brass Tee	No	2.00			
d)	20mm x 15mm Brass Elbow	No	5.00			
23	Supplying and fixing in position of best quality PVC rain water pipe of 110mm diameter and 4kg/cm <sup>2</sup> class having ISI mark and providing leak proof joints including fixing to the wall with PVC clamps etc and making connection to all specials dismantling masonry / RCC wherever necessary & making good the dismantled portion to the original condition complying with standard specification.	RM	16.00			
24	Supplying and fixing in position of best quality PVC waste water pipe of 110mm diameter and 6kg/cm <sup>2</sup> class having ISI mark and providing leak proof joints including fixing to the wall with PVC clamps etc and making connection to all sanitary fittings, dismantling masonry / RCC wherever necessary & making good the dismantled portion to the original condition complying with standard specification.	RM	12.00			
25	Supplying and fixing in position of best quality PVC special of 110mm diameter such as plain bend Door elbow plain Tee Door Tee offsets Y Junction etc conforming to ISS and providing leak proof joints including fixing to walls and giving connection to the PVC soil stacks, dismantling the brick masonry/RCC floor (or) roof slab and redoing the same etc complete complying with standard specification.					

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
a)	110mm PVC Plain Elbow	No	2.00			
b)	110mm PVC Door Elbow	No	1.00			
26	Supplying and fixing in position of best quality PVC waste water pipe of 75mm diameter and 6kg/cm <sup>2</sup> class having ISI mark and providing leak proof joints including fixing to the wall with PVC clamps etc and making connection to all sanitary fittings, dismantling masonry / RCC wherever necessary & making good the dismantled portion to the original condition complying with standard specification.	RM	6.00			
27	Supplying and fixing in position of best quality PVC special of 75mm diameter such as plain bend Door elbow pain Tee Door Tee offsets Y Junction etc conforming to ISS and providing leak proof joints including fixing to walls and giving connection to the PVC soil stacks,dismantling the brick masonry/RCC floor (or) roof slab and redoing the same etc complete complying with standard specification.					
a)	75mm PVC Plain Elbow	No	2.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
b)	75mm PVC Door Elbow	No	1.00			
28	Flooring with stain free nano polish vitrified tiles of approved quality, colour and size of 600 x 600 x 8 mm over a base layer of cement mortar 1:3, 20mm thick including points the joints with the same colour cement, cost and conveyance of all materials etc complying with standard specification.	Sqm	245.00			
29	Flooring with anti skid vitrified floor tiles of approved quality, colour and size of 0.30m x 0.30m over a base layer of cement mortar 1:3, 20mm thick including including points the joints with the same colour cement, cost and conveyance of all materials etc complying with standard specification.	Sqm	102.00			
30	Flooring with 18mm thick granite slab of approved quality /colour over a base layer of cement mortar 1:3,20mm thick including necessary Noing on edges for steps and pointing the joints with colour cement cost and conveyance of all materials complying with standard specification.	Sqm	14.00			
31	Supplying and fixing in position fully polished Rajasthan Kota Stone slab of 20mm thick mechinecut edge of size 2' x 2' and above and laid over a base layer of cement Mortor 1:3, 20mm thick and pointed with white cement and colour pigment of suit the colour of stones and polished neatly as directed.	Sqm	80.00			
32	Dadoing the walls with ceramic tiles of approved quality/colour & size of 0.30m x 0.60m in cement mortar 1:2 over a base plastering with cement mortar 1:5 ,12 mm thick after chipping the existing plastering including pointing with colour cement, cost and conveyance of all materials as directed by the Departmental officers complying with standard specification.	Sqm	126.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
33	Supplying and fixing 550mm x 450mm counter top colour washbasin (Hindware or equivalent) with 15mm c.p angle cock, (jaguar continental or equivalent) 15mm c.p pillar cock (jaguar continental or equivalent) 15mm heavy duty PVC connection, 32mm CP waste coupling and 32mm waste hose etc, over a polished 20mm thick granite top platform of size 750mm x 600mm supported by M.S angles as directed complying with standard specifications.	No	2.00			
34	Supply and fixing White European water closet of approved quality and brand (Parry ware or equivalent) with slim line PVC dual flush tank and seat cover matching with the colour of the closet. Thea rate is including cost of all other fittings such as 15mm C.P angle cock - 1No, 15mm x 450mm nylon connection - 1No and other accessories etc, complete complying with standard specification.	No	1.00			
35	Supply and fixing 15mm dia C.P long body bib cock of approved quality and make (Jaguar continental or equivalent) including cost and conveyance complying with standard specification.	No	10.00			
36	Attending full putty works with altek or other approved brand putty to a smooth even surface after through scrapping of the existing painted wall surfaces etc complete complying with specification.	Sqm	425.00			
37	Painting one coat with exterior emulsion paint of approved quality(Wall masta ) and colour over the existing painted ceiling and wall surfaces including cost and conveyance of colour materials complying with standard specification.	Sqm	405.00			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
38	Painting the wall surfaces with two coats of plastic emulsion paint of approved quality and colour over a priming coat with cement primer in the putty attended wall surfaces including cost and conveyance of all materials complying with standard specification.	Sqm	425.00			
39	Painting the exterior wall surfaces with two coats of weather coat paint of approved quality and color over the existing painted wall surfaces after clean preparation of the re-plastered / old plastered walls and column surfaces complying with standard specification.	Sqm	360.00			
40	Painting one coat with enamel paint of approved quality over the existing painted wood works including cost and conveyance of all materials complying with standard specification	Sqm	140.00			
41	Painting two coats with enamel paint over a priming coat with wood primer of approved quality over new wood works including cost and conveyance of all materials complying with standard specification	Sqm	8.00			
42	Polishing the old / new wood works with two coats of melamine polish to a glossy finish after preparing the surfaces by through scrapping , wood pillar coating and required sealer coating as directed by the Departmental officers complying with standard specification.	Sqm	50.00			
43	Varnishing two coats with clear varnish of approved quality and colour over the existing varnished wood works including cost and conveyance of all materials complying with standard specification	Sqm	240.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
44	Supply of SS Two Burner Range of size 1200 x 750 x 750mm as per the specification given below. Top made out of 16 gauge S.S 304 Front panel made out of 18 gauge S.S 304 Sides made out of 20 gauge SS 304 Legs made out of S.S 304 dia 38mm Cross brasing made out of S.S 304 dia 25mm Jalli made out of G.I burners T-35 high pressure burner, Angle 38 x 38 x 6mm made out of M.S Adjustable nylon bullet knobs	No	2.00			
45	Supply of SS Single Burner Range of size 750 x 750 x 750mm as per the specification given below. Top made out of 16 gauge S.S 304 Front panel made out of 18 gauge S.S 304 Sides made out of 20 gauge SS 304 Legs made out of S.S 304 38mm dia & cross Brasing made out of S.S 304 25mm dia Jalli made out of G.I burners T-35 high pressure burner Angle 38 x 38 x 6mm made out of M.S Adjustable nylon bullet knobs.	No	2.00			
46	Supply of S S Hand wash sink of size 600 x 600 x 850 + 150 mm as per the specification given below. Top made out of 16 gauge S.S 304 Bottom shelf made out of 18 gauge SS 304 Legs made out of S.S 304 38mm dia pipe & Angle 32 x 32 x 3mm made out of SS 202 Sink made out of S.S 304 size 450 x 450 x 300mm Adjustable nylon bullet knobs	No	2.00			
47	Supply of S S Work Table 2U/S of size 900 x 750 x 850 + 150mm as per the specification given below. Top made out of 16 gauge S.S 304 Bottom shelf made out of 18 gauge SS 304 Legs made out of S.S 304 38mm dia pipe & Angle 32 x 32 x 3mm made out of SS 202 Adjustable nylon bullet knobs.	No	2.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
48	Supply of S S Storage Rack of size 1100 x 500 x 1500 mm as per the specification given below. Four Tier Shelves Shelf made out of 18 gauge SS 304 Legs made out of S.S 304 dia 38mm Angle 32 x 32 x 3mm made out of SS 202 Adjustable nylon bullet knobs.	No	2.00			
49	Supply of S S Three Unit Sink of size 1800 x 650 x 850 +150 mm as per the specification given below. Top made out of 16 gauge S.S 304 Bottom shelf made out of 18 gauge SS 304 Legs made out of S.S 304 38mm dia pipe & Angle 32 x 32 x 3mm made out of SS 202 Sink made out of S.S 304 size 450 x 450 x 300mm Adjustable nylon bullet knobs.	No	2.00			
50	Supply of S S Work Table of size 1350 x 600 x 850 + 150 mm as per the specification given below. Top made out of 16 gauge S.S 304 Legs made out of S.S 304 38mm dia pipe & Angle 32 x 32 x 3mm made out of SS 202 Adjustable nylon bullet knobs.	No	2.00			
51	Supply of S S Trolley of size 700 x 450 x 850 mm as per the specification given below. Top made out of 16 gauge S.S 304 grade sheet. Bottom shelf made out of 18 gauge SS 304 grade sheet. Legs made out of S.S 304 grade 38mm dia pipe. It is mounted on Nylon wheels 4 No without brake.	No	2.00			
52	Supply of S S Bain Marie cum service counter of size 1500x680x830mm as per the specification given below. Hot case Fully SS 304 Grade 1.2 mm Sheet Fabrications Top with one Under Shelf , Legs are S S 40 mm dia SS pipe Bottom Three Side Covered, with 6 SQ bowels. Electric Auto cut of Heaters GN Pan Size: 21"x13"x6" - 2 No GN Pan Size: 13"x10 1/2"x6" - 4 No	No	2.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
53	Flooring with double charged vitrified tiles of approved quality, colour and size of 800 x 800 x 10 mm over a base layer of cement mortar 1:3, 20mm thick including points the joints with the same colour cement, cost and conveyance of all materials etc., complete complying with standard specification.	Sqm	340.00			
54	Manufacturing, supplying and fixing of stainless steel hand rails for staircase using 50mm dia 304L grade stainless steel pipe of 1.60mm thick at required locations to a height of 900mm from finished floor level welded to 38mm dia stainless steel pipe post of 1.00 mm thick as vertical at 900mm centre with 2 No of 25 mm dia intermediate horizontal stainless steel pipe of 1.60 mm thick in between. The vertical pipe has to be welded to the 100 x 100 x 6mm MS base plate encased in the base concrete. The rate is inclusive of the charges for cutting, bending, welding, grinding, polishing, conveyance, electrical charges, etc, complete complying with standard specification.	RM	11.00			
55	Earthwork excavation for foundation in all types of soils such as and subsoil in hard stiff clay, stiff black cotton, hard red earth, shale's, gravel earth mixed with small size boulder etc with an initial lead of 10m and lift of 2m, including refilling the size of the foundation with excavated earth etc. complete complying with standard specification.	Cum	17.00			
56	Plain Cement Concrete 1:5:10 (One cement, five sand and ten aggregates) using 40mm size HBGS jelly for foundation and flooring including dewatering,if found necessary and laid in layers of not more than 15cm thick consolidating etc. complete complying with standard specification.	Cum	6.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
57	Supplying and erecting shuttering including necessary support using steel shutters for plain surfaces such as column footings, kerb wall and grade beam/plinth beam etc. requiring nominal strutting and removing the same after completion of specified period without disturbing the concrete etc. complete complying with standard specification.	Sqm	115.00			
58	Plain Cement Concrete 1:2:4 (One cement, three sand and six aggregates) using 20mm size HBGS jelly for foundation and basement including dewatering if found necessary and laid in layers of not more than 15cm thick consolidating etc. complete.	Cum	25.00			
59	Supply and laying of cement concrete interlocking paver blocks of approved design and color of 80mm thick and M20 grade over a base layer of 100mm thick cushion graded chips/ quarry dust including compacting the same with power vibrator to the required level etc., complete complying with standard specification..	Sqm	1300.00			
60	Providing and laying tack coat over existing BT surface using 2Kg of bituminous emulsion (RSI) per 10Sq.m for preparatory to another bituminous construction over it including cost of materials, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per clause 503 of MORTH Rev - 5.	Sqm	2900.00			
61	Providing and laying compacting open graded premix carpet 20mm thick with a liquid seal coat which shall consists of open graded carpet of 20mm thickness in a single course composed of suitable small sized aggregates premixed with bituminous binder (VG30) with application of liquid seal coat for sealing the voids in a bituminous surface conforming to the specifications including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per MORTH Rev - 5 (Mix - in - place method.	Sqm	2900.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
62	Painting one coat with enamel paint of approved quality over the existing painted wood works including cost and conveyance of all materials complying with standard specification	Sqm	285.00			
	<b>Electrical Items</b>					
63	Supply and fixing of 100 A TPN sheet double break switch with HRC fuse and neutral on suitable angle iron frame work with MS cable entry boxes with PWD earthing. (SD-168)	No	1.00			
64	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.(SD) Incoming : 100 A 4P ISO - 1 No Outgoing : 20 A SP MCB 10kA - 24 No	No	1.00			
65	Supply and run of 2 x 1.5 sqmm (22/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade in suitable PVC rigid pipe in wall and ceiling with continuous earth wire connection 1 x 1.5 sqmm (22/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V grade and making good of the concealed portion with suitable colour..- (Derive from SD-55)	No	81.00			
66	Supply and run of 2 x 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 x 1.5sqmm (36/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade and making good of the concealed portion with suitable colour (Derive from SD-55)	Mtr	410.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
67	Supply and run of 2 x 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 x 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.(Derive from SD-57)	Mtr	425.00			
68	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 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.( SD-204)	Mtr	150.00			
69	Supply and Clamping of 3.5 X 25 sqmm Al XLPE LTUG Armoured LTUG cable on post or on wall with MS Clamp (SD-222)	Mtr	10.00			
70	Supply and fixing of brass cable gland for 3.5 x 25 sq.mm PVC LTUG armoured cable with earth connection (SD-186)	No	2.00			
71	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.(SD-233)	No	2.00			
72	Supply and run of 25mm x 3mm tinned GI flat with necessary clamps / supports on wall / floor / ground for earth connection (Derive from SD-76)	No	25.00			
73	Supply and run of 2 of No.8 SWG GI wire for guarding with cradle with No.8SWG GI wire at the equal interval of 1.5 meter.(SD-75)	Mtr	20.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
74	Supply and Fixing of 1200mm 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....(Derive from SD-88)	No	11.00			
75	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... (Derive from SD-88)	No	47.00			
76	Supply and fixing of (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....(SD-111)	No	22.00			
77	Supply and fixing of Exhaust Fans for 300 mm( 12") sweep (light duty) AC Exhaust fan with necessary supporting clamps fixed on the roof ,interconnections etc...(SD-115)	No	5.00			
78	Supply and fixing of Louvers Shutters arrangements of 300 mm( 12") sweep (light duty) AC Exhaust fan with necessary supporting clamps fixed on the roof ,interconnections etc...(SD-120)	No	5.00			
79	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... (Derive from SD-134)	No	2.00			



S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
80	Supply and fixing of 2 No 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... (Derive from SD-134)	No	8.00			
81	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... (Derive from SD-137)	No	9.00			
82	Supply and fixing of "Legrand or equivalent make" latest model TV socket and RG 6 Cable in suitable PVC pipe concealed from the entrance of room to the bed room TV socket with necessary connection complete.	No	2.00			
83	Supply and fixing of "Legrand or equivalent make" latest model Telephone socket including supply and Run of PVC Telephone wire in suitable PVC pipe from Junction at the entrance to bed side box.	No	2.00			
84	Supply and Run of RG 6 coaxial cable TV wire in suitable PVC pipe concealed / clamping in wall / ceiling etc. at varandha/balcony upto rooms entrance.	Mtr	200.00			
85	Supply and laying of 2 Pair, 0.5mm telephone copper wire 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 making good and etc to complete the work (Derive from SD-26)	Mtr	200.00			

S.No	Description of Work	Unit	Quantity	Rate Quoted in INR		Amount in INR
				In Figure	In words	
86	Charges for complete dismantling the existing old wiring, Run of mains, old main switches, Distribution Boards, etc., and stocking in store with list of old materials, etc., complete complying with standard specification.	Lot	1.00			
	<b>Add 12% GST</b>					
	<b>Schedule 3 - Kanyakumari Works Total</b>					
	<b>Signature of Contractor With Seal.</b>					