

RE-TENDER - REPAIRS AND RESTORATION WORK OF CANARA BANK BUILDING AT BEACH ROAD, TUTICORIN, TAMILNADU								
<u>SCHEDULE OF QUANTITIES FOR CIVIL, PLUMBING, SANITARY, MISCELLANEOUS AND ELECTRICAL WORKS</u>								
S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words	
1		Providing and fixing <b>scaffolding system</b> (cup lock type) with working platform for the interior and exterior side, up to five story height made with 40 mm Dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition and cover with green shade net for the required duration as approved and removing it thereafter .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge . Both side scaffolding work for full wall height /up to working area where ever required.						
	3000	External Side scaffolding work (Cup lock System)cover with shade net out side only )			Sqm			
2		<b>Uprooting, Clearing</b> and Patching with cement mortar and finish with plastering match with existing surface of Vegetation Holes Various places at site complete with all operations including all necessary materials, labour and disposal of dismantled material including all materials and labour cost and conveyance of all charges etc complete and as per the direction of Engineer-in charge						
		Uprooting and Removal of Unwanted Vegetative in main Building						
a	5	Ground Floor			Nos			
b	15	First Floor			Nos			
c	22	Second Floor			Nos			
3		Dismantalling and Replacement of MS rainfall pipes in all dimensions (as in where at site )picked out from Top to Bottom at all level of height and Refilling with brick jally with cement mortar and the Plastering with flash/match with adjacent surfaces including all materials and labours cost and conveyance charges extra completed and disposal of unuseage/unserviceable material within 50 metres lead as per direction of Engineer - in- charge.						
	120	Replacement and packing of Old MS rainfall pipes in all dimensions			RM			

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4		<b>Dismantalling R.C.C. work</b> manually/ by mechanical means including stacking of steel bars all materials and labours cost and conveyance charges extra completed and disposal of unuseage/ unserviceable material within 50 metres lead as per direction of Engineer - in- charge.						
a	15	Ground Floor			Cum			
b	15	First Floor			Cum			
c	15	Second Floor			Cum			
5		<b>Dismantalling brick work</b> manually/ by mechanical means including stacking of serviceable material and disposal of unuseable /unserviceable material within 50 metres lead to ground flooras per direction of Engineer-in-charge						
a	90	Ground floor including staircase			Cum			
b	90	First Floor including staircase			Cum			
c	180	Second Floor including staircase			Cum			
6		<b>Existing False Ceiling, Cabins:</b> Dismantalling of Existing False Ceiling, Cabins, Enchaning of Columns Various places at site complete with all operations including all necessary materials, labour and disposal of dismantled material and disposal of unuseable /unserviceable material within 50 metres lead to ground floor as per direction of Engineer - in- charge.						
a	550	Ground floor			Sqm			
b	250	First Floor			Sqm			
c	100	Second Floor			Sqm			
7		<b>Existing Floor Tiles:</b> Dismantling tile work in floors,dadooing or cladding and roof tiles in lime/ cement mortar including stacking material within 50 metres lead.(Including Toilet Blocks)For thickness of tiles as in where at site and disposal of un usage or un serviceable material within 50 metres lead to ground floor as per direction of Engineer - in- charge.						
a	650	First Floor			Sqm			

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words	
b	650	Second Floor			Sqm			
8		<b>Arch wooden Windows Grills / Weld Mesh:</b> Dismantling wood work with Windows Grills / Weld Mesh frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead to ground floor and lift complete with all operations including all necessary materials, labour and disposal of dismantled material and disposal of un-usable / unserviceable material within 50 metres lead as per direction of Engineer - in- charge.						
a	75	Ground floor			Sqm			
b	175	First Floor			Sqm			
c	175	Second Floor			Sqm			
9		<b>Treatment for plinth protection :</b> Flagging concrete along with end drain shall be provided at rear side of the building over well compacted soil as per standard practice. The joints between the foundation masonry and the flagging concrete shall be filled with bitumen sand mix as detailed in sketch. Further, road side drains abutting to the building in front and side portion of the building shall be made water tight to avoid ingress of water to the foundation system. complete complying with specification and refer enclosed sketch DWG.						
	10	Treatment for plinth protection			Cum			
10		<b>Flush pointing :</b> Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for Existing Door & Window Arch Stone and Basement stone masonry for Arch and Basement on Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge., all complete as per direction of Engineer-in-Charge.						
	150	Flush pointing with cement mortar			Sqm			
11		<b>Earth work:</b> excavation for Column footlings,beams foundations,Drainage ans cable Trenches,etc in all kinds soil including soft, weathered and loose disintegrated rock (excluding hard rock) by manual or mechanical including preparaing bed of excavation to the required depth, level, graded camber as directed ny the Engineer-in-charge, carting away / stacking the earth as directed including all men, materials and machineries, including cost of dozing, sharing an dewatering etc., complete ..Note: Whatever required filling quantity of earth will be retained by the contractor at his own cost, No claim for extra qty for filling works and as directed by the Engineer-in-Charge						

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
	350	Earth work excavation			Cum		
12		Providing and Laying of <b>Plain Cement concrete 1:4:8</b> (one cement, Four sand, Eight aggregate) using 40mm gauge hand broken granite stone jally for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and well rammed and compacted,etc., complete complying with standard specification.					
	40	Laying of Plain Cement concrete			Cum		
13		Suppling and fabricating and placing in position <b>M.S/R.T.S. bar</b> for reinforcement to all RCC works as per the design given including cost of steel and binding wires etc, all materials ad labour charges etc for in all floors and cost and conveyance of all charges etc complete comlying as per specification as per the direction fo the site -in -charge in all floors					
	25	Suppling and fabricating and placing in position R.T.S. bar			MT		
14		Providing and laying of <b>Rein forced Cement concrete 1: 1.5:3</b> (one cement One and Halfsand and three aggregate) using 20mm gauge machine broken hard granite stone jelly for all RCC items of works excluding centering, shuttering and cost of reinforcement grill ,shuttering and centering including laying, finishing, curing etc., and also including fixing fan clamps and fixtures in RCC works wherever necessary and as directed by Engineering In charge etc., complete.					
a	70	Ground floor including staircase			Cum		
b	60	Strong Room			Cum		
c	32	First Floor including staircase			Cum		
d	42	Second Floor including staircase			Cum		
15		<b>Brick work in CM 1:5</b> (one cement five sand) 230mm thick brick masonry including lead and lift and conveyances etc finishing including Scaffolding, curing cleaning and finishing in all respect all material and labour complete on described in the specifiction drawing and as approved by the architect at all rooms in all floors Including toilet in all floors. etc., complete complying with standard specification.					
a	25	Ground floor including staircase			Cum		
b	25	First Floor including staircase			Cum		

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words	
c	30	Second Floor including staircase with Head room			Cum			
16		Brick partition walls of <u>half brick masonry</u> size of 115mm thk in cement mortar 1:3 (one cement and three sand) with necessary hoop iron reinforcement which will be measured and paid separately etc. and levels respect all material and labour complete and clearing away the Building debris on described in the specification drawing and as approved by the architect at all rooms in all floors Including toilet in all floors.						
a	75	Ground floor including staircase			Sqm			
b	130	First Floor including staircase			Sqm			
c	145	Second Floor including staircase with Head room			Sqm			
17		<b><u>Arch and Wall Crack Treatment 75mm/25mm Deep:</u></b> Existing plaster in arch portion of masonry wall shall be removed completely by gentle chipping for 0.5m with each side required length without damaging bricks. Deep rake all the joints of arch portion to a deep of above 75mm and repointing using lime modified mortar 1:4 as per standard practice after cleaning the exposed brick masonry the wide cracks shall be sealed using neat cement slurry grouting through 10mm dia pvc nozzle with over aluminum/steel mesh shall be fabricated and placed over the wall and fixed with "U" nails. The entire surface of walls shall be replastered using lime modified mortar mixed with polypropylene or polyester fibers as per standard practice and shall be cured for 14 days including curing cleaning and finishing in all respect and disposal of unserviceable material within 50 metres lead to GF, all material and labour complete on described in the specification drawing and as approved by the architect at all rooms in all floors Including toilet in all floors as per direction of Engineer - in- charge. refer enclosed Drawing.						
a		<b><u>Arch and Wall Crack Treatment 75mm Deep</u></b>						
1	25	Ground floor including staircase			Sqm			
2	75	First Floor including staircase			Sqm			
3	75	Second Floor including staircase with Head room			Sqm			
b		<b><u>Arch and Wall Crack Treatment 25mm Deep</u></b>						

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words	
1	25	Ground floor including staircase			Sqm			
2	75	First Floor including staircase			Sqm			
3	75	Second Floor including staircase with Head room			Sqm			
18		<b><u>Treatment for Cracks in Jack arch roof / Steel members in jack arch ceiling:</u></b> Existing debonding / loose concrete along the crack shall be removed by gentle chipping and cleaned thoroughly using air or water jet. Provide structural grade polymer modified mortar over the cleaned cracked surface as per manufacturers specification, and the existing plaster over the steel members to be completely removed and cleaned using air or water jet. The exposed flange to be cleaned with wire brush and emery to remove rust and existing paint. Two coats of anti-corrosive chemical coating shall be provided to the flange as per specification. refer enclosed Drawing.						
a		<b><u>Treatment for cracks in jack arch roof on either side of steel beams</u></b>						
1	50	Ground floor including staircase			Sqm			
2	150	First Floor including staircase			Sqm			
b		<b><u>Treatment for steel members in jack arch ceiling</u></b>						
1	50	Ground floor including staircase			Sqm			
2	150	First Floor including staircase			Sqm			
19		Providing and laying <b><u>water proofing treatment in sunken portion</u></b> of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.						
a	70	Ground floor			Sqm			
b	60	First Floor			Sqm			

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
c	60	Second Floor with Head room			Sqm		
20		<b>Interior Wall Plastering 15 mm thick</b> : Cement mortar 1:3 (1 cement : 3 coarse sand) Existing plaster area shall be removed completely by gentle chipping and water jet cleaning without damage of the bricks over applying acrylic bonding agent prior to application of mortar and plastering with cement motor 1:3(1 cement,3 sand) mixed with approved polymer modified compound (conplast) as per manufacture's specification 15mm thick in all surface and levels respect all material and labour complete on described in the specification drawing and as approved by the architect at all rooms in all floors Including toilet in all floors as per direction of Engineer - in- charge.					
a	1650	Ground floor			Sqm		
b	1650	First Floor			Sqm		
c	1800	Second Floor with Head room			Sqm		
21		<b>Exterior Wall Plastering 20mm thick</b> : Cement mortar 1:3 (1 cement : 3 coarse sand) Existing plaster area shall be removed completely by gentle chipping and water jet cleaning without damage of the bricks over applying acrylic bonding agent prior to application of mortar and over plastering with cement motor 1:3(1 cement,3 sand) mixed with approved polymer modified compound (conplast) as per manufacture's specification 20mm thick in all surface and levels respect all material and labour complete and clearing away the Building debris on described in the specification drawing and as approved by the architect at all rooms in all floors Including toilet in all floors.					
a	1000	Stucco Plaster - Ground Floor - Outside			Sqm		
b	1000	First Floor			Sqm		
c	1250	Second Floor			Sqm		
22		<b>Interior wall painting:</b> Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade including thoroughly brushing the surface free from water motar droppings and other foreign matter and sandpapered smooth, including cement primer one coat and levelling using POP/birla putty, oil bound distemper 2 or more coats, emulsion paint (interior) of approved make, shade and color priming 2 or more coats at all heights to give an even shade including scaffolding and all material and labour complete usage in all floors					
a	1650	Ground floor			Sqm		

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
b	1650	First Floor			Sqm		
c	1800	Second Floor including staircase with Head room			Sqm		
23	<p><b>Exterior wall painting:</b> Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade including thoroughly brushing the surface free from water motar droppings and other foreign matter and sandpapered smooth. Includes cement primer one coat, oil bound distemper 2 or more coats, emulsion paint (exterior) of approved make, shade and color priming 2 or more coats at all heights to give an even shade including all material and lobour complete usage in all floors</p>						
a	1000	Ground Floor			Sqm		
b	1000	First Floor			Sqm		
c	1250	Second Floor including staircase with Head room			Sqm		
24	<p><b>Jack Arch / Flat Roof Ceiling painting:</b> (semi circular and flat ceiling areas )painting with acrylic emulsion paint of approved brand and manufacture to give an even shade , emulsion point of approved make shade and color priming coat at all heights( Including Stageing and scffolding work ,etc) to give on evenshade including thoroughly brushing the surface free from water motar droppings and other foreign matter and sandpapered smooth including all material and lobour complete clearing away the Building debris usage in all floors and toilet Blocks</p>						
a	640	Ground Floor			Sqm		
b	640	First Floor			Sqm		
c	200	second Floor			Sqm		
25	<p><b>Supplying and Painting For ISMB</b> for Dome Structural Finishing with Epoxy paint (two or more coats) at all locations ( Including Stageing and scffolding work ,etc)prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete and Old iron works with two coats of approved quality and colour of synthetic enamel paint over the existing red oxide primer in all floors etc ., complete complying with standard specifications as per the direction of Engineer-in charge.for all floors</p>						
	60	Ground Floor			Sqm		



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	60	First Floor			Sqm		
	20	Second Floor			Sqm		
<b>26</b>	<p>Supplying and <b>painting for wood work</b> with ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) over two coats of synthetic enamel paint of approved quality and colour in wrought frames, trusses, purlins and rafters Peak,Bottom &amp; Top chord,Truss Plate,bolt, Continuous Lateral es,wedges,web.Heel,Splice and over hangingwooden members in all floors The rate is to include cost of all materials,brushes, scaffolding charges etc., complete</p>						
	50	Painting for wood work			Sqm		
<b>27</b>	<p><b>Vitrified tiles flooring</b> : Providing and laying Vitrified tiles(600 mm x 600 mm) in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand &amp; manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of jointsGrouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.</p>						
<b>a</b>	650	First Floor			Sqm		
<b>b</b>	650	Second Floor			Sqm		
<b>28</b>	<p><b>Providing and fixing 1st quality ceramic glazed wall tiles</b> conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineerin- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete</p>						
<b>a</b>	90	Ground Floor			Sqm		
<b>b</b>	70	First Floor			Sqm		
<b>c</b>	70	Second Floor			Sqm		

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
29		<b>Vitrified anti skid</b> flooring tiles for Skirting, risers of steps and treads. Providing and fixing 1st quality verified tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer- in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.					
a	350	Ground Floor			Sqm		
b	350	First Floor			Sqm		
c	350	Second Floor			Sqm		
30		<b>Main door:</b> providing and fixing in position of Teak wood (First quality) timber required framed with 38mm thick hard timber panelled doors and finish with melamine finish on both sides & frames with frames made of required typeDetails of cost for shutters of a Door(1/3rd glazed and 2/3rd panelled) . Grade of timber the scope of works complete as per the drawing and directed by the architect.The timber shall be the best of its kind well seasoned free from shakes waney edges large or unsound knots spongy or brittle heart and any other defects.Nails screws bolts and other fastening etc shall comply with the relevant codes all the ironmongeries as per the schedule the rate inclusive of all accessories & hardware fixtures etc completeincluding door stopper, auto door closure with maganitic cature etc (as per Drawing given by Architect)) in all floors					
	60	Main Door in Teak wood (1/3rd glazed and 2/3rd panelled)			Sqm		

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
31		<b>W.C. and bathroom door shutter:</b> Comparison of Moulded PVC Door-30mmPVC door 30 mm thick factory made moulded PVC door (Woodfree) consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 20mm x 40mm for stiles as well as top, bottom & lock rail. M.S. frame shall have a coat of metal primer of approved make & manufacturer. The inside panel shall consist of 20mm thick multi-chamber hollow PVC section of 1mm wall thickness, bonded using solvent cement / cyanoacrylate adhesive with 5 mm (+0.25) thick moulded PVC sheet of density 600 kg/cbm with 2, 4, 6 raised panel design in plain / prelam colours after routing the moulded design on one side of the inside panel. 5 mm (+0.25) plain / prelam PVC sheet to be pasted using solvent cement / cyanoacrylate adhesive on other side of the hollow PVC section. All the four edges of the panel to be sealed with lipping of 10 mm thick & 20 mm wide PVC sheet baton made by sticking 2 nos. foam PVC sheets of 5 mm (+0.25) thickness using PVC solvent cement adhesive. Door edge lipping to be painted with PVC ink of matching colour of Plain/Prelam moulded PVC sheet of door 20 mm thick (5 mm x 4 nos.) thick PVC sheet to be given for lock provision at lock height. Door to be fixed with frame with 3 nos. stainless steel butt hinges of size 100mm x 25mm x 2mm and 50 mm long steel screws drilled suitable to pass through both the walls of the M.S. tube other hardware should be fixed with 25mm x 8mm size steel screws etc, complete as per manufacturer's specification including all requirements spares and materials etc completed in all respects as directed by Engineer - in -charge					
	27	Toilet Doors			Sqm		
32		Repairing and Renovation of <b>Damaged Cornice</b> gentle chipping and water jet cleaning without damage of the bricks over applying acrylic bonding agent prior to application of mortar and plastering with cement mortar 1:3 (1 cement,3 sand) mixed with approved polymer modified compound (conplast) as per manufacturer's specification 20mm thick in all surface and levels respect all material and labour complete on described in the specification drawing and as approved by the architect . For all rooms in all floors Including toilet in all floors.					
a	5	Ground Floor			RM		
b	15	First Floor			RM		
c	10	Second Floor			RM		

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33		Supplying and fixing of <b>M.S.grills for window</b> of approved design with logo of canara Bank for open courtyard, window grill works doors and window openings etc., using necessary mild steel flats for inner and outer members which should be fixed on edges ( <b>should not exceed Weight10.76Kg/Sqm</b> ) Providing and fixing factory Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener,( Including Stageing and scffolding work ,etc) including fixing of necessary butt hinges and screws including providing and fixing of hinges,and applying a priming coat of approved steel primer, pivots,.....including priming coat of approved steel primer over two or more coat of enamel painting including the cost of other fittings,dismantalling of required area matching with masonry work over plastering in cement mortar match with exsiting surface completein all respects l as per approved design, Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate20 mm nominal size) all complete as per the direction of Engineer_In_charge.,					
	1750	Supplying and fixing of M.S.grill			Kgs		
34		Supplying and fixing of <b>Collapsible gate</b> - Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of Zinc Chromite approved steel primer over two coat of enamel paint work Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate20 mm nominal size)( Including Stageing and scffolding work ,etc)including the cost of other fittings,dismantalling of required area with masonry work over plastering mortar with exsiting surface completed in all respects l as per approved design all complete as per the direction of Engineer_In_charge., <b>Outer Door GF+FF+SF</b>					
	75	Supplying and fixing of Collapsible gate Outer Door GF+FF+SF			Sqm		

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35		Supplying and fixing <b>Folding shutters (Book Gate)</b> of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete,( Including Stageing and scaffolding work ,etc) including the cost of providing and fixing necessary hinged gate frame comprising galvanised steel lattice inter connected and fitted between two continuous galvanised vertical steel pickets providing a robust gate frame work, Shutter leaves 1.2mm (18gauge) pre-galvanised steel 230mm wide with vertical ribbing for extra strength, connected on outer and inner face by galvanised steel section, galvanised leading edge locating with galvanised receiver channel, Top Track in 100 x 70 mm galvanised cold rolled channel section fitted with GI.steel cover plate , Door suspended roller bearing assemblies on 22mm dia GI hanger and Bottom guide track GI meialble iron bottom to guide bolted between the pickets run in deep formed GI "U" section. sump boxes and very heavy duty double channel bottom track should included, fitted with inside & out side handles complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer over two coat of enamel paint work Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate20 mm nominal size) all complete as per the direction of Engineer_In_charge., All out side Outer Door					
	75	Folding shutters (Book Gate)			Sqm		
36		Providing and fixing factory made <b>uPVC white colour</b> sliding glazed door/window/ventilator with 5mmthick/plain/ pinned or color glass comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape& size according to uPVC profile), appropriate dimension uPVC extruded glazing beads, uPVC extruded interlock and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate20 mm nominal size) and weather proof silicon sealent over backer rod of required size and of approved quality,dismantalling of required area with masonry work over plastering mortar having transmission gear with keeps, zinc alloy (white powder coated) cresent lock (if required), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners,with exsiting surface complete all complete as per approved drawing & direction of Engineer-in-Charge. for First Floor & Second Floor( rate including of fixing of grill on walls wall cutting finieshed with cement mortar 1:4 on required support pockets-it grill will be supplied by contractor at his own cost )					

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
a	300	uPVC sliding glazed door / window / ventilator			Sqm		
37		Supplying and fixing and laying in position <b>PUF sheet-30mm</b> Cool Top effectively restricts the transmission of heat by 5-6 degrees, and also absorbs and reduces the noise of rain as well. Puf sheet roofing panels should be aesthetically designed, sound-proof and weather-resistant. Being corrosion-free, panels require low maintenance and durable in nature, making them a cost-effective roofing solution. sheet with minimum 30mm (SIP-30-1001 30) thick work over existing wooden framed work (Existing Wooden Truss), where ever wooden rafters or purlins were in weaker condition are find out by site incharge it should be replace and make it recondition or fixing new one from removed wooden rafters or purlins including Primer over wooden painting for all wooden members all labour charges and material cost and conveyance of all charges( Including Stageing and scffolding work ,etc),no claim for addl work. Upper Skin: 0.35 mm TCT / 0.45 mm TCT / 0.5 mm TCT / 0.6mm TCT Lower Skin: 0.35 mm TCT / 0.45 mm TCT / 0.5 mm TCT / 0.6 mm TCT Sandwich PU Foam Insulation: 40 Kg perm <sup>3</sup> +/-2 gs Standard Cover Width: 1 meter Standard Length: 2.5 meter / 3 meter / 4 meter / 5 meter / 6 meter Standard Colours: Capri blue/terra cotta/appliance white Standard total thickness of colour coated Galvalume sheets is 0.45 mm. corrugated/tile design sheet (blue colour) of approved quality by drilling holes (and not by punching) with necessary "H" bolts and nuts of 6 mm dia. of suitable length and providing one set of bitumen washers of 25mm dia and 1.60mm thick for each bolt including protruding portion of bolts in roof shall be covered with bitumen compound etc., complete complying with standard specification for all levels and as directed by Engineer in charge (Second floor Roof)					
	625	PUF sheet-30mm thick sheet Roof(including Lap area)			Sqm		

RE-TENDER - REPAIRS AND RESTORATION WORK OF CANARA BANK BUILDING AT BEACH ROAD, TUTICORIN, TAMILNADU

S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
38		Required M.S Frame with <u>Galvalume sheets sheet Sunshade</u> (For GF, FF & SF)including fixing of necessary butt hinges and screws including providing and fixing of hinges,and applying a priming coat of approved steel primer, pivots,.....including priming coat of approved steel primer over two or more coat of enamel painting including the cost of other fittings,dismantalling of required area matching with masonry work over plastering in cement mortar match with exsiting surface completein all respects l as per approved by the Engineer -In -charge Galvalume sheets shall conform to AZ 150 of AS 1397 or ASTM 792 with hot-dip metallic coating of 55% Al and 45% Zn alloy having total coating mass of min. 150 gms/m2 inclusive of both sides. Accessories such as ridge capping, corner closing pieces (barge capping), single ridge capping with or without up-stand, apron flashings, cover flashings/edge trimmings, louvres etc. shall be as per manufacturer's specifications to suit the type of roof sheeting. The accessories shall have same specifications as of roof/cladding sheets as far as colour, material, thickness, protective coating etc. The shape of accessories shall be as per drawings and generally shall suit the profile of the sheets. Overlaps shall be minimum 150 mm. The sheeting including all or any required stell frame with accessories shall be fixed by the contractor his own cost . The down-take pipes shall be fixed to gutter suitably to ensure leak-proof joints. valley Gutter work with plain sheet (blue colour) joint wit bitumen sheet with bolt with bitumen washer over nut of approved quality by drilling holes (and not by punching) with necessary "H" bolts and nuts of 5 mm dia. of suitable length and providing one set of bitumen washers of 25mm dia and 1.60mm thick for each bolt including protruding portion of bolts in roof shall be covered with bitumen compound etc., complete complying with standard specification for all levels and as directed by Engineer in charge.					
	180	Galvalume sheet Sunshade all external Joineries (For GF , FF& SF)			Sqm		
39		<u>Galvanised steel matel sheet vally Gutter work</u> over wooden framed work(Over Exsiting Wooden Truss), including "Supplying and fixing Galvanised steel matel sheet vally Gutter work with 3mm thick gavanised iron sheets of plain sheet (blue colour) joint with bitumen sheet with bolt with bitumen washer over nut of approved quality by drilling holes (and should not by punching) with necessary "H" bolts and nuts of 5 mm dia. of suitable length and providing one set of bitumen washers of 25mm dia and 1.60mm thick for each bolt including protruding portion of bolts in roof shall be covered with bitumen compound etc., complete complying with standard specification for all levels and as directed by Engineer in charge (Second floor Roof)					
	240	Gutter work			RM		

RE-TENDER - REPAIRS AND RESTORATION WORK OF CANARA BANK BUILDING AT BEACH ROAD, TUTICORIN, TAMILNADU

S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
40		<b>RAIN WATER DOWN FALL PIPE 110 mm:</b> - UP.V.C. Pipes Above GL Supplying laying and jointing U.P.V.C pipes of approved quality and best variety conforming to I.S.I, of the following sizes including cutting and fixing PVC specials with PVC adhesive including cost of such specials of coupling,clamp,End shoe,bend and other necessary items for RAINFALL PIPE-110mm dia above ground level and fixing to wall with necessary teak wood plugs, PVC clamps and screws and making holes in masonry or RCC works wherever necessary and making good the dismantled portions to original condition including necessary scaffolding charges etc., complete.					
	180	Rain Water down fall pipe110mm Dia			RM		
41		<b>Weathering course</b> with Brick jelly lime concrete using 20mm gauge brick jelly in pure slaked lime (no sand to be added) over roof slab,the proportion of brick jelly to lime being '32 to 12.5 laid in a single layer of required thickness and slope and top well beaten with wooden beaters by constantly wetted the surface by sprinkling lime jaggery wateretc.,Finishing the top of roof with one course of Machine Pressed Tiles of siz 230x230x20mm thick of approved quality laid in cement mortar1:3;12mm thick mixed with WPC at 2% by weight of cement used and top pointed with the same red oxide mixed mortar etc complete. equired M.S Frame with GI sheet Sunshade(For FF& SF)including fixing of necessary butt hinges and screws including providing and fixing of hinges,and applying a priming coat of approved steel primer, pivots,.....including priming coat of approved steel primer over two or more coat of enamel painting including the cost of other fittings,dismantalling of required area matching with masonry work over plastering in cement mortar match with exsiting surface completein all respects l as per approved design, Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate20 mm nominal size) all complete as per the direction of Engineer_In_charge., -					
	75	Weathering course with flat tiles			Sqm		
42		Providing and laying <b>APP (Atactic Polypropylene Polymer)</b> modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with nonwoven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/ 5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane					
	150	APP Water proofing			Sqm		



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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
43		<b>Provisions for Repair of chajjas</b> including chipping and reovables of unwanted materials and add cracking compounds etc including finish the actual shape and size including all materials and labour charges etc complete complying etc asper the direction of engineer-in-charge (Matching with exsiting chajjas pattern size)					
	50	Provisions for Repair of chajjas			Nos		
		<b>Provision for sanitary and water supply items</b>					
44		Providing and fixing heavy and rigid <b>P.V.C pipe</b> with prince fitting such as Tee, Elbow, Cowl, Clamps including( Including Stageing and scffolding work ,etc) making holes, cutting chases in wall / floor, encasing in brick jelly cement concrete 1:3:6 where ever laid underall floors complete( Including Stageing and scffolding work ,etc).Make Avon/supreme/prince) complying etc asper the direction of engineer-in-charge					
a	150	160 mm O.D x 10 kg. Cm2			RM		
b	75	125 mm O.D x 10 kg. Cm2			RM		
c	75	110mm O.D x 10 kg. Cm2			RM		
d	75	75 mm OD x 10 kg. Cm2			RM		
e	175	63 mm OD x 10 kg. Cm2			RM		
45		Providing and fixing heavy and rigid <b>C.P.V.C pipe</b> ( Approved make) with necessary fittings such as tee, elbows including cutting chases in wall/floor concealing the pipes in wall and earth work excavation where ever required and back filling complete. Supplying laying and jointing U.P.V.C pipe quality of the following sizes including fixing C.P.V.C pipe ( Approved make) including cost of such specials for internal water supply (open line and cancelled line) , including cutting and threading of pipes and fixing to wall with necessary teak wood plugs, clamps and screws and making holes in masonry or roof wherever necessary and making good the dismantled portions to original condition including necessary scaffolding charges etc., complete.complying etc asper the direction of engineer-in-charge					
a	125	32 mm Dia			RM		
b	150	25 mm Dia			RM		
c	150	20 mm Dia			RM		

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
46		Providing and fixing <b>stainless steel / brass ball valve</b> of following diameters as per valve codes					
a	25	32 mm Dia			Nos		
b	55	25 mm Dia			Nos		
c	40	20 mm Dia			Nos		
47		Supply and fixing of ROTATIONAL MOULDED POLYETHYLENE <b>WATER STORAGE TANKS</b> - Water Tank capacity 5000 litres Height 2400-3740 mm, wall and bottom thickness 11.5mm Empty weight tank should be 319.0 Kg as per IS code IS 12701 : 1996 in position with necessary bed provision over the existing unused water tank base slab as a platform with accessories etc completed in all respects including finish the actual shape and size including( Including Stageing and scffolding work ,etc) all materials and labour charges etc complete complying etc asper the direction of engineer-in-charge # second floor					
	2	WATER STORAGE TANKS 5000 Litres including all specials for join the discharge line			Nos		
48		<b>Sanitary fittings:</b> Supplying and fixing in position of the following Nickle chrome coated <b>specials</b> of approved Jaquvar/Waterman quality excluding fixing charges and cutting & threading of pipes for joining the G.I specials etc., completed with concealed brass hooks and screws etc., complete upto floor and redoing the disturbed portions complete for all floors complying etc asper the direction of engineer-in-charge					
a	6	Providing and fixing <b>health faucet</b> consisting of flexible tube chromium plated control valve hook complete.			Nos		
b	6	Providing and fixing two in one <b>bib tap</b> with angle cock			Nos		
c	10	Providing and fixing one way <b>bib tap</b> with angle cock			Nos		
d	10	Providing and fixing SS Towel ring.			Nos		
e	30	Providing and fixing Angle valve			Nos		

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
f	18	Providing and fixing 20mm <u>c.p concealed stop cock</u>			Nos		
g	20	Providing and fixing <u>c.p Long Body cock</u>			Nos		
h	9	Providing and fixing chromium plated <u>towel rod</u>			Nos		
i	6	Providing and fixing chromium <u>soap dish</u>			Nos		
j	30	Providing and fixing 75/50mm ceramic p trap embedded in cement concrete and on top fitting with stainless steel grating etc, complete.			Nos		
49		Supplying and fixing in position best quality approved make white glazed <u>hand wash basin</u> of size 550 X 400 mm with a pair of cast iron brackets, including cost of 15mm dia brass chromium plated pillar tap, 32 mm dia C.P. waste coupling, 32 mm dia P.V.C. waste pipe with rubber plug and chain, 15mm diametre G.M.wheel valve, 15mm dia brass nipple, 15mm dia nylon connections etc., including fixing the wash hand basin in the wall in position with a pair of C.I. brackets with teak wood plugs and screws and giving necessary water supply connection and painting the brackets with two coats of paint over a priming coat of anticorrosive paint including testing for leakage etc.,Cost of Wash Hand Basin with necessary 15mm dia G.M. Wheel valve, 32mm dia C.P. waste coupling 32mm dia P.V.C. waste pipe, 15mm dia brass nipple, 12/15mm dia C.P. pillar tap, 15mm dia nylon connection, Plug and Chain, C.I. brackets etc.including waterproofing with all kind of necessary work completed with all respects complying with standard specifications (the wash hand basin and specials should be got prior approved by the Engineer in charge.					
	6	Hand Wash Basin in All floors			Nos		
50		Providing & fixing White vitreous <u>Indian water closet pan (IWC)</u> size : 580mm x 440mm along with foot rest, "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, including waterproofing with all kind of necessary work completed with all respects as per the direction of Engineer-in charge.					
	6	water closet pan (IWC)			Nos		

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
51		Supplying and fixing in position White Glazed <b>European Water Closet (EWC)</b> of approved quality and make with 'P' or 'S' trap with double flapped rigid P.V.C. seat cover with C.P. brass hinges, 12.5 litres PVC low level flushing tank with all internal fittings etc., including waterproofing with all kind of necessary work completed with all respects complete complying with standard specifications					
	6	European Water Closet (EWC)			Nos		
52		Providing and fixing white vitreous china flat back half stall <b>urinal</b> of size 580x380x350 mm with all necessary fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required:					
	12	Urinals			Nos		
53		Supplying and fixing Polished Marble slab of size 1.22x0.61m, 18mm thick for <b>urinal partition</b> etc., as per CER.NO.229/2003-04					
	8	Partition plate			Nos		
54		Constructing <b>masonry inspection chamber</b> size 600 x 600mm internally with brick wall in cement mortar 1:5 over bed of cement concrete 1:4:8 rendering to wall 1:3 inside, top and out side 300mm below ground level including forming of benching and channeling and on top fitted with 450 MM circular frame and cover of R.C.C precast complete depth upto 1.20 to 1.50 meter. including waterproofing with all kind of necessary work completed with all respects					
	12	Constructing masonry inspection chamber			Nos		
55		Replacing and Relaying of Existing <b>Foundation stone</b> of this building Plastering with flash with adjacent side including all materials and labours cost and conveyance charges extra completed.					
	1	Existing Foundation stone ( Size:1.5 sqm)			Nos		

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
56		<b>Conveyance of the building debries</b> and unuseable material (From all dismantalling items from the site to approved Municipal Dumping Yard including all lead and lift, loading and unloading charges.					
	500	Conveyance of Building Debries			Cum		
57		Providing and Fixing <b>Stainless steel Grade 304 Railing</b> made of Hollow tubes channels, Plates, Etc including welding, Grinding, Buffing, Polishing and making Curvature (Wherever required) and fitting the same with necessary Stainless steel nuts and bolts, including fixing the railing with necessary accessories and Stainless steel dash fasteners, Bolts etc.. of accuired size on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engg-incharge, (for payementg purpose of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fastners etc.) including fixing ther base cup to RCC Slab rigidly including polishing and buffing etc complete in all floors					
	1100	Fixing Stainless steel (Grade 304) railing			kgs		
58		<b>Stair case:</b> Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat and enamel painting two or more coats of approved steel primer.					
	1200				Kgs		
59		Provision for <b>Canara Bank Logo</b> Making charges using cement martor in CM 1:3 Mix with accessories etc completed including finish the actual shape and size including all materials and labour charges etc complete complying etc asper the direction of engineer-in-charge					
	25	Provision for Canara Bank Logo			Nos		

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words	
60		<b>Removing or replacing of such as Mangalore tile roofs, existing windows, doors and ventilators</b> with flat tiles and runner at Main and Toilet building etc. complete including stacking of serviceable material and disposal of unserviceable material at second floor tiled roof, including ridge tiles, hips, valleys and gutters etc., and stacking the material within 50 metres lead and lift conveyances, loading and unloading cost are to be included in the quoted rate <b>(Purchase Rate Offered by the Contractor) for the following Items.</b>						
	<b>Tentative Qty</b>	<b>Description of Items</b>	<b>Rate</b>		<b>Per</b>			
a	2000	Steel / MS items Scrap from windows and jack Arch Roof ,window Grills)			Kg			
b	500	Aluminium Items			Kg			
c	1200	Flat tiles			Sqm			
d	650	Mangalore tiles			Sqm			
e	LOT	wooden Items			LOT			
f	LOT	Electrical Items usable cable, switch gears			LOT			
<b>Sub-Total of Civil works (A)</b>								

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
<b><u>ELECTRICAL WORKS</u></b>							
1		Wiring for light point / fan point / exhaust fan point / call bell point with 2X1.5 sq.mm FRLS PVC insulated multi stranded copper conductor single core cable in 20mm dia surface/recessed medium class PVC conduit, bends, couplers, junction box, fasteners with modular switch, modular plate, suitable GI box and earthing the point with 1X1.5 sq. mm FRLS PVC insulated multi stranded copper conductor single core cable, all accessories, etc. The rate shall include chassing of walls, Floors, etc., plastering as required.					
	120	Medium point			Nos		
2		Supplying and fixing modular switch & socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required					
a	30	2/3 pin universal shuttered sockets 6A			Nos		
b	10	6 pin 15/16A shuttered sockets			Nos		
3		Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box / wooden block including connection etc. as required.					
	120	Ceiling rose			Nos		
4		Supplying and fixing PVC batten / angle holder including connection etc. as required					
	10	PVC batten / angle holder			Nos		
5		Wiring for circuit /submain wiring alongwith earth wire of followwing sizes using FRLS PVC insulated multi stranded copper conductor single core cable of approved make in 20mm dia surface/recessed medium class PVC conduits, bends, couplers, with all accessories, etc. as required.					
a	300	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire			RM		
b	200	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire			RM		
6		Supply and laying PVC conduits (HMS) with all conduit accessories PVC junction/pull boxes, GI fish wire, fixing accessories etc., as required complete. The rate shall include Chassing of walls, Floors, etc., plastering the chased portion as required.					

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
a	300	20mm DIA PVC CONDUITS (HMS)			RM		
b	300	25mm DIA PVC CONDUITS (HMS)			RM		
c	100	32mm DIA PVC CONDUITS (HMS)			RM		
d	100	40mm DIA PVC CONDUITS (HMS)			RM		
7		Supplying, installation, testing and commissioning of horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V of approved make on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
	4	4 way (4 + 12), Double door			Nos		
8		Supplying installation, testing and commissioning of single pole and neutral, sheet steel, MCB distribution board, 240 V of approved make on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
	1	12 way Double door			Nos		
9		Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required					
a	48	6 A to 32 A SP MCBs			Nos		
b	10	20 A to 32 A DP MCBs			Nos		
c	5	32 A 4 POLE MCBs			Nos		
10		Supply, Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent / LED fitting of all types and approved make, complete with all accessories and tube/lamp etc. directly on ceiling / wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required					
a	45	1 X 28W box type T5 light fitting with end caps			Nos		
b	10	2 X 28W box type T5 light fitting with end caps			Nos		



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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
11		Supply, Installation, tesing and commissioning of 1400 RPM double ball bearing type, 230V, exhaust fan of approved make in the existing opening, including making good the damage, etc. as required					
a	5	12" 1400 RPM exhaust fan double ball bearing			Nos		
b	12	9" 1400 RPM exhaust fan double ball bearing			Nos		
12		Supply & Laying of 1.1KV grade, PVC insulated, galvanized steel armoured and overall PVC sheathed LTUG cable with ISI mark of approved make of below size using suitable brass compression glands and crimping type aluminum sockets with necessary clamping on walls/ceiling using GI saddles, screws, all accessories, etc., all complete as below:					
a	200	4 core 16 Sq.mm ALUMINIUM UG cable from main panel to DBs			RM		
b	50	4 core 25 Sq.mm ALUMINIUM UG cable from main panel to DBs			RM		
13		Supplying, installing, testing and commissioning of 40 mm dia, 2500mm long earth electrode GI pipe with 600X600X3mm thick Copper plate earth electrode at the depth of 3000 mm in an earth pit of 700 X 700 X 3500 mm depth filled with salt and charcoal mixed with clay in alternate layer 150mm each upto the height of 3000 mm from the bottom with 2Nos 25X6 copper flat shall be brazed to this copper plate and brought at the top level. The rate is including of masonry work along with heavy duty CI cover, funnel, digging and back filling.					
	4	Copper plate earthing			Nos		
14		<b><u>LIGHTNING ARRESTOR</u></b>					
a		Providing and fixing of lightning conductor finial made of 25mm dia 300mm long Copper tube having single prong at top with 85mm dia 3 mm thick Copper base plate including holes complete as required.					
	6				Nos		
b		Fixing of lightning conductor (SINGLE PRONG) with base plate including holes, steel fastener 6mm x 75mm etc., complete as required.					
	2				Nos		

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S.No	Qty	Description of work	Rate	Rate in Words	Per	Amount	Amount in Words
c		Jointing copper/GI tape (with another copper / GI Tape, base of finial or any other metallic object ) by Rivetting /nut bolting/Sweating and soldering etc. as required.					
	2				Nos		
d		Providing and fixing Copper/GI tape 20mm X 3mm thick on parapet or on surface of wall of lightning conductor complete as required ( for Horizontal runs )					
	50				RM		
e		Providing and fixing Copper/GI tape 20mm X 3mm thick on parapet or on surface of wall of lightning conductor complete as required ( for Vertical runs )					
	30				RM		
f		Providing and fixing " Testing Joint" made by 20mm X 3mm thick GI strip 125mm long with 4 Nos of GI bolts, Nuts, check nuts and spring washers etc. complete as required.					
	2				Nos		
	<b>Sub-Total of Electrical works (B)</b>						
<b>SUMMARY</b>							
<b>Sub-Total of Civil works (A)</b>							
<b>Sub-Total of Electrical works (B)</b>							
<b>Grand Total of all works excluding GST</b>							