

SCHEDULE - A

NAME OF WORK :

**Construction of ICON SAFTY CENTRE in the premises of Arul Migu Jumbukeswarar - Akilandeswari Thirukkoil,
Thiruvanaikaval, in Trichy district.**

Validity of Tender: 90 days

E.M.D. Rs. 68275 /-

Date of Tender: 27.03.2018

Sl. No	Quantity in Figures and in words	Description of Work	TNBP No.	Unit in Figures and in words	Rates in		Amount in Figures Rs. P.
					Figures	Words	
1	355.00 cum (Three hundred fifty five cubic meter)	Earthwork excavation for foundation in all soils except hard rock requiring blasting to a full depth with initial lead of 10 m and lift of 2m etc., complete (SS 20B)		1 cum (one cubic meter)			
2	72.00 cum (Seventy two cubic meter)	Supplying and filling in foundation and basement with filling sand in layers of 150mm thickness well watered rammed and consolidated complying with relevant std specification including cost of supplying filling sand.		1 cum (one cubic meter)			

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3 (a)	153 cum (one hundred fifty three cubic meter)	Supplying and filling gravel including cost and conveyance of sand, gravel and all labour charges for filling ramming etc. complete with standard specifications		1 cum (one cubic meter)			
(b)	52 cum (fifty two cubic meter)	Refilling in the basement with excavated soil in layers not exceeding 150mm thick well watered rammed and consolidated including watering etc., complete complying with standard specification.		1 cum (one cubic meter)			
(c)	105 cum (one hundred five cubic meter)	Supplying and filling with sand gravel mix including cost and conveyance of sand, gravel and all labour charges for filling ramming etc. complete with standard specifications		1 cum (one cubic meter)			

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4	101 cum (one hundred one cubic meter)	Cement concrete 1:5:10 (One of cement five of sand and ten of HBG jelly)for foundation using 40mm gauge HBG jelly inclusive of shoring strutting and baling out water where ever necessary ramming curing etc.,complete in respects complying with relevant Std, Specification and as directed by the Dept, Officers.		1 cum (one cubic meter)			
5		Providing form work for shuttering the soffits of all reinforcement cement concrete surfaces including Strutting to the required height with M.S.Sheets of 90 x 60cm x 10 gauge stiffened with welded M.S angle of size 25x25x3mm laid over silver oak joints of size 10cm x 6.50cm spaced at about 90cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at 75cm centre to centre complying with standard specification and as directed.					
(a)	713 sqm (seven hundred thirty teen square meter)	For Column footing, Grade Beam & plinth beam		1 sqm (one square meter)			

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(b)	465 sqm (four hundred sixty five square meter)	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.		1 sqm (one square meter)			
6 (a)	700 sqm (seven hundred square meter)	Rectangular Columns, Top and bottom of slab of sunshade boxing sill slabs etc.		1 sqm (one square meter)			
(b)	80 sqm (Eighty square meter)	For Curved centering		1 sqm (one square meter)			
7	443 sqm (four hundred forty three square meter)	For Additional strutting		1 sqm (one square meter)			

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8		<p>Providing and laying in position, Standardised Concrete Mix M-20 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 to 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 with 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, etc. and providing fixtures like fan clamps in the RCC floor/ roof slabs wherever necessary without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards. (No separate payment will be made by the Department for the excess usage of materials).</p>					
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(a)	80.60 cum (Eighty point sixty cubic meter)	For Foundation and basement		1 cum (one cubic meter)			
(b)	130 cum (one hundred thirty cubic meter)	Ground floor super structure		1 cum (one cubic meter)			
9	100 cum (one hundred cubic meter)	Reinforced Cement Concrete 1:2:4 (One Cement, Two sand and four hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the		1 cum (one cubic meter)			

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		departmental officers					
10	295.20 Qtl (Two hundred ninety five point two zero quintal)	Supplying and fabricating and placing in position M.S.grills for reinforcement for all RCC works, including cost of rods, straightening, bending, cracking tying grills,with 18 gauge galvanised binding wire and placing the grills in position etc., complete and as directed.		1 Qtl (one Quintal)			
11		Brick work in cement Mortar 1:6 using country bricks of size 83/4"x41/1"x23/4 for the following including curing etc. complete complying with standard specification.					
(a)	87 cum (Eighty seven cubic meter)	For Foundation and Basement		1 cum (one cubic meter)			
(b)	67 cum (Sixty seven cubic meter)	Above basement level upto 4.5m height		1 cum (one cubic meter)			

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12	36 cum (Thirty six cubic meter)	Brick work in cement Mortar 1:5 using country bricks of size 8 3/4"x4 1/4"x2 3/4 the following including curing etc. complete complying with standard specification.for foundation and basement complete.		1 cum (one cubic meter)			
13	35 cum (Thirty five cubic meter)	Ornamental Brick masonry in C.M 1:4, using stock bricks including all vaarivargams, moulds, sthambams, mukhapathrams, koodu, nasi and all ornamental brick work complete, all pancharams, agarais, karnrakoodus, etc., forming core walls of Rajagopurams/vimanams complete including cost and conveyance of all materials including cement, all the labour charges including marking pathies shaping of the bricks, lifting of all the materials to required heights curing and all extra for working in heights etc., complete.		1 cum (one cubic meter)			
14	6 cum (six cubic meter)	Brick Partition wall in C M 1:3 of 110mm thick. Using country brick of size 8 3/4"x4 1/4"x2 1/4" including plastering both sides with cm 1:5, 12mm thick - 10 cum including cost and conveyance of all materials and all the labour charges complete complying with standard specification.		1 cum (one cubic meter)			

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15	1388 sqm (One thousand three hundred eighty eight square meter)	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 nosing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers		1 sqm (one square meter)			
16	1534 sqm (One thousand five hundred thirty four square meter)	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.		1 sqm (one square meter)			
17	210 sqm (Two hundred ten square meter)	Providing Vargapoochu over the corewalls of vimanams / gopurams with C.M. 1:4 complete including shaping the Mukhapathram, Mahanasi, Koodu all ornamental works to proper shape, by embedding broken bricks or shaped / chiselled bricks, rough plastering with C.M. 1:4 and finishing with final ornamental plastering and nayam theervai including cost and conveyance of all materials, labour therefore, lifting of		1 sqm (one square meter)			

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		materials, all working in heights, curing with water etc., complete-including all extra for folding and including clearing the debris from the vimanams/gopurams-100sft superficial area.					
18	220 sqm (Two hundred twenty square meter)	Paving the floor with Super fine Polished Granite Slab of approved quality and colour (Ruby red or Raw Silk) 18mm to 20mm thick of size 4' 0" x 2' 0" and above for floor in CM 1:3 - 20mm tk including cost and conveyance of all materials and labour charges for cutting and fixing in position of Granite slabs and all other incidental charges etc., complete as directed by the Engineer in charge.		1 sqm (one square meter)			
19	25.50 cum (Twenty five point fifty cubic meter)	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.		1 cum (one cubic meter)			

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20	256 sqm (Two hundred fifty six square meter)	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.		1 sqm (one square meter)			
21	45 Rm (Forty five Running meter)	Supplying and fixing in position best approved ISI quality of 110mm Dia PVC Rain Water Down fall pipe having a pressure of 4 Kg / Sq.cm including cost of necessary PVC shoe, PVC bend, gratings of required diameter and special clamps , brass screws, nails etc., and fixing of cast iron gratings at junction of parapet and the R.C.C.roof slab including finishing neatly etc., complete.The rate shall be inclusive of cost of removable iron grating.The PVC pipe shall be fixed in wall with special type of clamps. Special type of "U" clamp at the centre of pipe line shall be fixed in addition to these for more than 3.0m pipe length complying with standard specification.		1 Rm (one Running meter)			

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22	75 sqm (Seventy five square meter)	Manufacturing, supplying and fixing Precast Reinforced Cement Concrete slabs of 50mm thickness in RCC 1:2:4 (one cement, two sand and four aggregates), using following 20mm HBGS jelly excluding cost of reinforcement steel in position but including cost of moulding charges, casting of slab, finishing, curing and fixing in position in all floors etc., complete complying with standard specification and as directed.		1 sqm (one square meter)			
23	4.50 sqm (four point fifty square meter)	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 play 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.		1 sqm (one square meter)			
24	8.00 sqm (Eight square meter)	Supplyind and fixing of Teak wood glazed window with Teak wood frames of size 3" x21/2" and shutter frames of size 21/2" x11/2" and with glass paneles. MS grill of 2.5 Kg per Sqft is to be fixed with outer frames. The rate includes cost of materials ,labour charges and covenyance etc.,		1 sqm (one square meter)			
25	8.00 sqm (Eight square	Supplying and fixing N type steel Glazed Ventilators using outer frame of MS angle of size 25x25x3mm for frame with protective rod of 12mm sqre bars fixed at and interval		1 sqm (one square			

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	meter)	of 10cm center with weld mesh of size 75mmx25mm and using 3mm pin headed glass including cost of one coat or red oxide primer welding etc., including transportation to site of work, loading and unloading and all other including charges etc., complete as directed by the departmental officers.		meter)			
26	210 sqm (Two hundred ten square meter)	Painting with ega varanam Good water based Emulsion paint complete for the Vimanams / Gopurams including cost and conveyance of all materials, labour charges including Artist painter, Working in heights, lifting of materials, cost of brushes etc., complete which include all extra for foldings.		1 sqm (one square meter)			
27	1435 sqm (Four thousand four hundred thirty five square meter)	Painting two coats with Exterior Emulsion paint of first class quality and approved colour, including priming coat and through scrapping and clean removal of dirt etc., complete as per standared specification.		1 sqm (one square meter)			
28	295 sqm (Two hundred ninety Five square meter)	Painting two coats with Cement paint of first class quality and approved colour, including priming coat and through scrapping and clean removal of dirt etc., complete as per standared specification.		1 sqm (one square meter)			

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29	887 sqm (Eight hundred eighty seven square meter)	Painting Two Coats with Distemper over the existing priming coat.including one Priming coat in cement plasterd wall surface in all floors including all cost of materials brushes, scaffolding charges etc., complete complying with standard specification.		1 sqm (one square meter)			
30	17 sqm (seven teen square meter)	Best Varnishing two coats over wooden surfaces to the melamine finish including cleaning the surface and rubbing with emery sheet etc, complete complying with standard specifications.		1 sqm (one square meter)			
31	23 sqm (Twenty three square meter)	Painting New iron work with Two coats of Synthetic enamel paint over a priming coat (excluding Prime coat)		1 sqm (one square meter)			
32	10 sqm (Ten square meter)	Painting New Wood work with Two coats of Synthetic enamel paint over a priming coat including cost and conveyance of all materials and labour charges etc complete as directed.		1 sqm (one square meter)			

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33	620 sqm (Six hundred twenty square meter)	Scaffolding charges for Vimanams rated and gopurams as per standard specifications hire charges only for erection, maintenance and removing the same after completion of work.		1 sqm (one square meter)			
34	19.50 sqm (Nine teen point fifty square meter)	Supplying and fixing fine polished granite slab of 20mm thick (Ruby red,raw silk). for cupboard slab .The rate inclusive of cost of materials,transportation and fixing charges etc., complete for fixing in Cupboard arrangements		1 sqm (one square meter)			
35	9.00 sqm (nine square meter)	Providing full nosing for granite slabs of 18 to 20mm thick as per stantearnd specification and as directed by the departmental officears		1 sqm (one square meter)			
36	2.00 Nos (Two Numbers)	Supplying and fixing in position Indian water colour closet of size 580 X 440mm, white glazed earthen ware of approved quality with 'P' trap or 'S' trap confirming to IS:2556 Part XII with sand cushion and forming flooring aroundthe closet using 40mm broken brick jelly in lime concrete 1:2:5 (one part of lime, two parts of sand and five parts of brick jelly) 100mm thick and finishing the top to		1 Nos (One Numbers)			

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		required slope and including giving necessary connection to cast iron soil pipes/ PVC pipes by dismantling brick masonry, reinforced cement concrete roof/floor slab and making good the disturbed portion to original condition without quality with 'P' trap or 'S' trap confirming to IS:2556 - leakage etc., complete complying with standard specifications.					
37	1000 Lit (one Thousand litre)	Supply and fixing PVC water Tank		1 lit (One litre)			
38	4.00 Nos (four Numbers)	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)		1 Nos (One Numbers)			

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39	2.00 Nos (Two Numbers)	Supplying and fixing in position best quality approved make white glazed earthenware Cost of Wash Hand Basin Colour without pedestral of size 550 X 400 mm with a pair of cast iron brackets, including cost of 15mm diameter brass chromium plated pillar tape, 32 mm diameter C.P. Waste union, 32 mm diameter P.V.C. waste pipe with rubber plug and chain, 15mm diameter 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., complete complying with standard specifications (the wash hand basins and specials should be got approved by the Executive Engineer before use on works)		1 Nos (One Numbers)			
40		Supplying laying and jointing P.V.C pipes (10Kg/SqCm) of approved quality and best variety conforming to I.S.S and with I.S.I mark, of the following sizes including cutting and fixing to PVC specials using Adhesive but excluding cost of such specials and fixing to wall with necessary teak - Wood Plugs, PVC Clamps and screws, making good the dismantled portions to original condition					

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		with necessary brick work and plastering wherever necessary with necessary scaffolding charges. Above ground level upto 4 m height.(internal water supply)					
(a)	30 Rm (Thirty Running meter)	25 mm PVC pipe		1 Rm (one Running meter)			
(b)	20 Rm (Twenty Running meter)	15 mm PVC pipe		1 Rm (one Running meter)			
(c)	20 Rm (Twenty Running meter)	110 mm PVC pipe		1 Rm (one Running meter)			

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41	2.00 Nos (Two Numbers)	Manufacturing, supplying and fixing in position of RCC Jally of 5cm thick in cement concrete 1:2:4 using 20mm machine crushed stone jelly (excluding cost of reinforcement steel) including cost of mould, finishing, curing, lifting, fixing in position etc., complete complying with standard specification and as directed		1 Nos (One Numbers)			
42	1.00 Nos (One Numbers)	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.		1 Nos (One Numbers)			
43	4 sqm (Four square meter)	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		1 sqm (one square meter)			

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		Engineer before use on works)					
44	23 sqm (Twenty three square meter)	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.		1 sqm (one square meter)			
45	4 sqm (Four square meter)	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.		1 sqm (one square meter)			

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46	58.00 cum (Fifty eight cubic meter)	Cement Concrete 1:3:6 (One Cement, Three sand and Six broken stone jelly) using 40mm size hard broken stone jelly for dummy columns, excluding cost of centering shuttering reinforcement grills and fabrication charges but including curing etc. complete. (Reinforced Cement Concrete 1:2:4 for slab to be extended upto top of splashing with pressed tiles and future extension rods to be embedded in CC 1:3:6 (One Cement, Three Sand and Six hard broken stone jelly). Dummy columns should be at least 1 metre height)		1 cum (one cubic meter)			
47	300 Kg (Three hundred kilo grams)	Supplying and fixing mild steel grill Gate including cost conveyance of all materials and fixing in position including priming coat etc complete with standard specifications.		1 Kg (one kilo grams)			
48	1.00 Nos (One Numbers)	PROVIDING ORNAMANTAL TEAK WOOD 8" X 5'3" for ICON ENTRANCE door using 0' 7" x 0'6" teak wood runner for Nilai,0'2" thick teak wood planks for Rails and styles, and panals with 0'3" teak wood planks,including cost of burma teak wood ,0'4" Brass butt hinges 8nos ,Mortice lock godrej or equilant make,Brass ornamentals handle 3 nos ,brass tower bolt 3 nos ,Brass aldrop 300mm					

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		etc.,complete and all labour charges required for required for wrought and put up frames and shutters,providing ornamental design in around nilai,carving annam,Flower,and Elephant in panels,as per drawing and painting with best varnish including cost of all materials and all labour charges required for wrought & putup and fixing in position.dismantling brick work for fixing hold fast and redoing work etc.,completed.		1 Nos (One Numbers)			
49	12.00 Nos (Twelve Numbers)	Supplying and fixing of strong room air ventilators of Godrej / Steelage and equivalent make with minimum clear opening of 18" x 18". The ventilators shall be provided with inside baffle plate and hold fast arrangements for making adjustment to the required thickness to suit the strong room wall thickness. The rate includes cost of transportation and fixing charges etc complete.,		1 Nos (One Numbers)			
50	6.00 Nos (Six Numbers)	Supplying and fixing of strong room exhaust fan confirming IS 2312 - 1967 with 327mm dia, 1400 rpm speed and packing dimensions of 400 x 400 mm. The exhaust fan consists of dynamically balanced blades for even load on bearing and to be given polyurethane coating to make it corrosion resistsnt. The single phase fans are designed to function at rated voltage of 230V 50 C/s . The rate includes cost of transportation and fixing etc		1 Nos (One Numbers)			

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		complete.					
51		<p>Supplying and fixing of strong room door of Godrej /Steelage (or) equivalent make adhering to the standard specifications of B class / II class BSI Labeled doors as prescribed in IS 11188 (part 1) 1991.The clear size of the opening shall not be less then 900mm width and 1950 height when door shutters are swing open at 180'.The door frame ,door grill gates and other mild steel components shall be confirming to IS 2062: 1984 (or) IS 226:1975 (or) IS 9550:1980. The vertical rebate shall be riveted (or) plug welded with the side members and the top rebate with the top member.The door frame shall be of channel type to grip the concrete wall, either in one piece or built up with minimum thickness of 10mm. Alternately minimum three angle brackets of size 100mm x 100mm x 10mm may be provided on each side of the door frame to grip the concrete wall.</p> <p>The main door shall consist of outer and inner mild steel plates confirming to IS 2062:1984 (or) IS 226:1975. For plates up to 20mm thick, strongly rimmed and continuously welded to form a single structure and tightly enclosing a solid slab of high speed drill resisting and oxy acetylene torch resisting material of not less</p>					

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	<p style="text-align: center;">1.00 Nos (One Numbers)</p>	<p>than 20 +/-1mm .The minimum thickness of door slab over rebates shall be 29mm and the thickness of door over locks shall be 50mm.The door shall be secured by shooting bolts of minimum 38mm dia, six numbers on the front side and six numbers on the rear side. The shooting bolt mechanism shall be controlled by 8 lever lock.</p> <p>The door fittings such as hinges adjustable bolts handles etc shall be made of materials confirming to IS 306: 1983 (or) IS 1570 (parts) : 1985 (or) mild steels with epoxy power fusion coating. A control switch shall be fitted on the door to automatically control the electric supply to the vault.Ventilating grill gates shall be made out at mild steel angles, plates (or)channels in the mild steel rods welded in a rigid frame, The minimum thickness of grill gate angles (or) sections made out of M.S plates shall be 5mm and minimum dia and pitch of grill gate rods are 19mm and 100mm c/c respectively. An unpickable dual control locking device, capable of being operated from the sides of the door shall be fitted in the grill gate.The door shall be with burglar and fire resisting capacities of not less than 30 minutes. Including GST.</p>		<p style="text-align: center;">1 Nos (One Numbers)</p>			
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52	11.00 Nos (Eelven Numbers)	Supplying and fixing of JALAGAM(Stone grill ventilator) of Nandhiya vattam design made of single stone. The overall size of the jalagam is 2'-6" x 2'-6" with 3" extra hold fast portion allround for fixing to the brick walls. The thickness of frame is 4" allround for 3" width and that of stone grills is 2".The outer surface of the jalagam should be fine ground with carvings as shown in the figure and inner side should be flat and smooth surface.The rate includes cost of jalagam transportation and fixing charges etc., complete.		1 Nos (One Numbers)			
53		Supplying and fixing of following type Safe Deposit Lockers cabinets of Godrej / steelage (or) equivalent make confirming to IS 5244 : 1991. The lockers shall be made from uniform thick steel plates with reinforcements on all sides. Doors and hinges shall be superimposed by anodised aluminium fronts. superior quality of polyurethane painting shall be given for better corrosion resistance.					
(a)	1.00 Nos (One Numbers)	SDL with 21 lockers of F type with over all size 2000 x 1100 x 575 and locker size 278 x 360 x 502mm		1 Nos (One Numbers)			
(b)	1.00 Nos (One Numbers)	SDL with 10 lockers of K1 type with over all size 200 x 1100 x 575 and		1 Nos (One Numbers)			

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		lockers size 385 x 544 x 502mm					
54		Drilling of Borewells anywhere in Tamilnadu including transportation from one place to another with in Tamilnadu in alluvial soil sedimentary strata of clay and sand stone shale pebbles boulders etc. By first taking a pilot bore of 140 mm/150mm dia and then enlarging to required dia direct or reverse rotary mud circulation method using rotary rigs fuel, labour and drilling bentonite and water required for drilling at site(Site will be shown by the officers) including construction of mud pit.					
(a)	60 Rm (Sixty Running meter)	Upto 60 m Depth ending below ground level		1 Rm (one Running meter)			
(b)	30 Rm (Thirty Running meter)	From 60 m Upto 90 m Depth ending from ground level		1 Rm (one Running meter)			
(c)	30 Rm (Thirty Running	From 90 m upto 120 m Depth		1 Rm (one Running			

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	meter)	ending from ground level		meter)			
(d)	30 Rm (Thirty Running meter)	From 120 m upto 150 m Depth ending from ground level		1 Rm (one Running meter)			
55	12.00 Nos (Twelve Running meter)	Supplying and Fixing 150 mm/200mm/250 mm dia (M.S. Casing pipes assembly with slots or with out slots) in the drilled hole including welding the joints etc., complete and supplying and packing the annular space with pebbles of size and quality as approved by the Engineers		1 Rm (one Running meter)			
56	1.00 Nos (One Numbers)	Supplying and Fixing of MS Bore well cover using ms flats of 10 mm X 3 mm and ms saheet ting arrangements for security of cap portion etc., complete and supplying and packing the annular space with pebbles of size and quality as approved by the Engineers		1 Nos (One Numbers)			
57		Provision for pipe connection arrangements for inlet outlet scour and overflow etc including cost of pipes specials valve labour charge for lifting aligning cutting threading fixing and painting of GI pipes with two coats of approved quality enamel paint etc complete as detailed below					

Contractor

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(a)	120.00 Nos (one hundred Twenty Running meter)	50mm dia pipes medium		1 Rm (one Running meter)			
(b)	10.00 Nos (Ten Numbers)	50mm dia coupling heavy		1 Nos (One Numbers)			
(c)	3.00 Nos (Three Numbers)	50mm dia GI bend		1 Nos (One Numbers)			
(d)	3.00 Nos (Three Numbers)	50mm dia GI flange		1 Nos (One Numbers)			
(e)	2.00 Nos (Two Numbers)	50mm dia ms clamp		1 Nos (One Numbers)			
(f)	1.00 Nos (One Numbers)	50mm dia GI non return valve		1 Nos (One Numbers)			

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(g)	1.00 Nos (One Numbers)	50mm dia GI Gate valve		1 Nos (One Numbers)			
(h)	1.00 Nos (One Numbers)	80 x 50 mm GI reducer		1 Nos (One Numbers)			
(i)	1.00 Nos (One Numbers)	90mm dia PVCtreaded coupler		1 Nos (One Numbers)			
58	1.00 Nos (One Numbers)	Supplying and Fixing of VERTICAL WET TYPE SUBMERSIBLE 3 HP PUMPSET SUITABLE FOR 150MM DIA BOREWELL WITH ISI MARK IS 8034 WITH PANEL BOARD with necessary pipe & fittings and labour for work etc complete as directed by departmental officers		1 Nos (One Numbers)			
59	120.00 Nos (one hundred Twenty Running	Supplying and delivery wall mounting type control panel made of ms sheet 18 swg verrmin type with hinged inter locking speccility etc complete with internal wiring of control panel with provition for cable entry including two coats of gray color with following configuration etc complete as		1 Nos (One Numbers)			

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	meter)	directed by departmental officers					
60	1.00 Nos (One Numbers)	Labour charges for erection of submersible pumpset in bore well including labour charges for fixing and jointing with proper clamps, valves, pressure gauge, erection of panel board, laying and jointing cable, with earthing etc. complete complying with standard specifications.		1 Nos (One Numbers)			
61	0.34 cum (point thirty four cubic meter)	Filling for HBG jelly 40mm stone		1 cum (one cubic meter)			

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62	60.00 pts (Sixty point)	Wiring with 2 x 1.5 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 3mm thick hylum sheet cover with TW switch box and 5A F.T switch with continuous earth wire connection of 14 SWG TC wire for making good of the concealed portion with suitable colour for PVC concealed light point / Fan point (For electronic regulator).(SD-23)		1 pts (one point)			
63	60.00 MTR (Sixty meter)	Supply and fixing of with 2 x 1.5 sqmm (22 / 0.3) PVC insulated SC unsheathed Cu. Conductor of 1100V grade in suitable PVC cassing pipe concealed in flooring woth PVC accessories for making good of the concealed poration in flooring with suitable colour. (SD-55)		1 mt (one meter)			
64	6.00 pts (Six point)	Wiring with 2x1.5sqmm (22/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100 V grade in suitable PVC rigid pipe on wall and ceiling with PVC accessories with 150 mm x 100 mm x 113mm TW switch box in flush with wall with 3 mm thick Hylem sheet cover for 5 A 3 pin non inter locking CS plug with painting of suitable colour with continuous earth wire connection of 14 SWG		1 pts (one point)			

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		TC wire for open PVC(SD 37)				
65	3.00 pts (Three point)	Wiring with 2x4 sqmm(56/0.3) PVC insulated SC unsheathed Cu.Conductor cable of 1100V grade in suitable PVC rigid pipe on wall and ceiling with PVC accessories with 150mm x100mm x113mm TW switch box in flush with wall with 3mm thick hylem sheet cover for 15 A 3 pin flush type non inter locking CS plug with painting of suitable colour with continuous earth wire connection of 14 SWG TC wire for open PVC power plug point.(SD 41)		1 pts (one point)		
66	26.00 Nos (Twenty six Numbers)	Supply and fixing of fancy glass shade and 11W LED lamp with LAMP.(DATA-C)		1 Nos (One Numbers)		
67	21.00 Nos (Twenty one Numbers)	Supply and fixing of 4'18W single box type LED with tw focus an wall .ceiling with 18 v crostil glass LED interial shuter eather from fittings(philips/LED TARANG 1X 20 W)or equvalant complete with on ceiling (surface Mounted) with flu tube with PVC unsheathed copper leads from terminals to the fittings(DATA-D)		1 Nos (One Numbers)		
68	8.00 Nos (Eight Numbers)	Supply and fixing of 2x 36 W CFL-DF street light fittings(crompton Greves /Se=CEN BC 2x 36 W CFL)or equvalant with on suitable angle in on frame work with necessary PVC copper lead connections on the wall with 36 W Havells CFL Lamp(DATA-E)		1 Nos (One Numbers)		

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69	15.00 Nos (fifteen Numbers)	Supply and fixing of 1200 mm (48") AC ceiling fan complete with stepped electronic 300W regulator with 300mm down rod on the existing clamp.		1 Nos (One Numbers)			
70	1.00 Nos (one Numbers)	Supply and fixing of Horizontal type 4 way triple pole neutral MCB distribution board in sheet steel enclosure with 40A 4 pole MCB isolater as incoming and 12 Nos. 6 A to 32 A SP MCB as outgoing in flush with wall and making good of the concealed portion with earth connection. The MCBDB and MCB's should be with the ISI mark (like standard make)(SD-179)		1 Nos (One Numbers)			
71	1.00 Nos (one Numbers)	Supply and fixing of 63A TPN MC switch with suitable angle iron frame work with MS cable entry boxes with earth connection only.(SD-166)		1 Nos (One Numbers)			
72	1.00 Nos (one Numbers)	Supply and fixing of TNEB Moter Board suitable for 3 Phases 63A service connection made up of suitable angle iron frame work of size 2 feet x 1 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 1/2 feet of 6mm thickness with necessary bolts and nuts supports and supply and fixing of 3 Nos 63A fuse units (500V) 1 No. Neutral link, copper earth flat of size 1" x 1/4" with inter connection of EB meter to fuse units by 7/16 PVC insulated copper wire with earth		1 Nos (One Numbers)			

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		connection complete.(SD-129)					
73	30.00 MTR (Thirty meter)	Supply and run of 4 x 6 sq.mm (84/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V on 7/20 GI bearer wire for service connection mains .(SD-68)		1 mt (one meter)			
74	10.00 MTR (Ten meter)	Supply and run of 4 x 6 sq.mm (84/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V grade in 32mm dia GI pipe (Class 'B') suitably bent at both ends with necessary angle iron up right and end.(SD-73)		1 mt (one meter)			
75	1.00 Nos (one Numbers)	Supply and fixing of 3 nos of 3 phase 63 Amps aerial fuse units(500V) on suitable M.S sheet covered with 6mm thick hylem sheet on suitable angle iron frame work on the tapping pole with necessary clamp.(DATA-F)		1 Nos (One Numbers)			
76	2.00 Nos (Two Numbers)	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)		1 Nos (One Numbers)			
77	10.00 Nos (Ten Numbers)	Supply and insallation and configuration (SITC of Fixed camara with one door,IP66 rated 1/3" emos,1.3mp ip camara with lans auto focus and day night mode.carama shared 1080 p another 10/100 bare -T ether not Rj-45 camara.IEEE 802.3 at POE sutiable. Camara with dual video shared have liance.		1 Nos (One Numbers)			

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		IrR distance upto 30 mts camara shared have CE,FCC,Rotts and ISO 9001:2008;ISO 14001.make:Ayuh/panasonic/samsung/pelco.model:PI-SPW 103L					
78	1.00 Nos (one Numbers)	Supply testing and configuration of 16 chennal NVR wiith real time live view H.264 MJPEG dual eges decording upto 5mp regular Maand 28meps inculding band with shared sutiable 2nos of 4TB HOD data videos input/output H264/MPEG dual sheame videos configuration full chennal @ 720p regular real time necessary 1080p VGA and HDMI output support showed have HDMI/VGA simulation video output part necesary made of configuration for the NVR and also equitment camara should have CE,FCC,ROHS,and ISO 9001:2008:ISO4001.Make samsung/panasonic/Dabura/Hikuman.Mode l:pI.NL2216K.		1 Nos (One Numbers)			
79	10.00 Nos (Ten Numbers)	Smgs power supply as per the specification.		1 Nos (One Numbers)			

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80	1.00 Nos (one Numbers)	IP Configuration and software installation		1 Nos (One Numbers)			
81	10.00 Nos (Ten Numbers)	MX pin with connecter and jack as per the specification		1 Nos (One Numbers)			
82	1.00 Nos (one Numbers)	Lan switch 16 way as per specification		1 Nos (One Numbers)			
83	350 MTR (Three hundred fifty meter)	Supply and laying of networking cable with laying of PVC pipe with proper clamps and screws		1 mt (one meter)			
84	1.00 Nos (one Numbers)	Supply of 19.5 inch monitor unit with Mounting with all accessories as per specification.		1 Nos (One Numbers)			
85		Supply and testing of Alarm system with Auto Dialer and all accessories per the					

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	1.00 Nos (one Numbers)	specifications.		1 Nos (One Numbers)			
86	2.00 Nos (Two Numbers)	Supply and testing of Magnetic contact with all accessories as per the specifications		1 Nos (One Numbers)			
87	7.00 Nos (Seven Numbers)	Supply and testing of PIR sensor with all accessories as per the specifications.		1 Nos (One Numbers)			
88	1.00 Nos (one Numbers)	Supply and testing of sounder with all accessories as per the specifications.		1 Nos (One Numbers)			
89	300 MTR (Three hundred meter)	Supply and laying of cable along with PVC pipe with proper clamps and screws.		1 mt (one meter)			
90	2.00 Nos (Two Numbers)	Supply and fixing of 4 Kg Capacity ABC type store pressure multipurpose new fire Extinguisher as per the specification. Including Gst.		1 Nos (One Numbers)			
91	1.00 Nos (one Numbers)	Supply and Fixing Of 4.5 Kg capacity type new fire		1 Nos (One Numbers)			

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		Extinguisher as per specification Including Gs					
92	1.00 Nos (one Numbers)	Supply and Fixing of Fire Bucket stand with 4 Nos Buckets Including Gst.		1 Nos (One Numbers)			
*****Ninety Two Items only*****							

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