

TAMIL NADU HOUSING BOARD							
SALEM CIRCLE AT COIMBATORE							
NAME OF WORK : Area Development Scheme for 83 Nos. of Plots (HIG-16,MIG-21,MIG I-45 & Shop-1) in S.F.No.210/1 Pt, 3Pt.,211/1 & 211/2 B etc., of Future development Plots Two Pockets (Zone I & II) in Attur Phase - IV Scheme , Salem District							
SCHEDULE - A							
Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
1			Open Earthwork excavation for boxing of roads in all soils and sub soils to the required depth as may be directed except in hard rock requiring blasting inclusive of shoring strutting and baling out water wherever necessary and depositing the surplus earth in places shown clearing and leveling the site with an initial lead of 10 metre and lifts as specified hereunder etc., all complete in all respects complying with relevant standard specification and drawing as directed by the departmental officers. (excluding Refilling) 0 to 2 m depth	20A			
a)	860.99	M3	0 to 2m depth In ordinary soil			One Cubic Meter	
b)	277.30	M3	0 to 2m depth In Hard Rock - SDR not req Blasting			One Cubic Meter	
c)	45.34	M3	2 to 3 m depth Hard rock - MR & DMR not req blasting			One Cubic Meter	
d)	9.07	M3	3 to 4 m depth Hard rock - MR & DMR not req blasting			One Cubic Meter	
2			Earthwork excavation for foundation in all soils and sub soils to the required depth as may be directed except in hard rock requiring blasting inclusive of shoring strutting and baling out water wherever necessary and depositing the surplus earth in places shown clearing and leveling the site with an initial lead of 10 metre and lifts as specified hereunder etc., all complete in all respects complying with relevant standard specification and drawing as directed by the departmental officers. (excluding Refilling) 0 to 2 m depth	20A			
a)			<b>Upto 1.25 m width</b>				
i)	314.35	M3	For Ordinary Soil			One Cubic Meter	
ii)	456.53	M3	For Hard rock not requiring Blasting			One Cubic Meter	
b)			<b>Beyond 1.25 m width</b>				
i)	272.33	M3	For Ordinary Soil			One Cubic Meter	

Contractor

No. of corrections

Superintending Engineer

Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
ii)	408.50	M3	For Hard rock not requiring Blasting			One Cubic Meter	
3	257.00	M3	Providing and laying Sub Grade with Quarry rubbish of good grade of material for 100 mm consolidated thickness with 1.50 Cubic Metre of Quarry Rubbish, 0.38 Cubic metre of quarry dust and 0.30 Cubic Metre of gravel (for filling the voids) to cover Ten Square Metre area and to give CBR of 10 on prepared sub grade including cost and conveyance of all materials at site of work, labour charges for spreading, watering and consolidated by power roller of 8 to 10 Ton capacity, .Hire Charges for tools and plants etc complete complying with relevant standard specification and as directed by the departmental officers			One Cubic Meter	
4	385.00	M3	Providing and laying, spreading and compacting graded stone aggregates to Wet Mix Macadam 150mm thick specification including premixing the materials with waterat OMC in mechanical mix plant carriage of mixed material by tipper to site laying inuniform layers with paver sin Sub Base/Base course on well prepared surface and compacting with vibratory roller to acheive the desired density including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per clause 406 of MORTH Rev-5			One Cubic Meter	
5	2562.00	M2	Providing and laying Prime Coat over WMM surface using 7Kg of Emulsion Bitumen (SS1) per 10sqm for preparatory to another bituminous construction over it, including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per Clause 502 of MORTH Rev-5			One Square Meter	
6	2562.00	M2	Providing and laying Tack Coat over WBM/WMM surface (treated with primer) using 2.50Kg of Bitumen Emulsion (RS1) per 10sqm for preparatory to another bituminous construction over it including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per Clause 503 of MORTH Rev-5.			One Square Meter	
7	129.00	M3	Providing and laying 50mm consolidated thick Dense Bituminous Macadam using 0.24cum of 26.50-13.20mm,0.25cum of 13.20-2.36mm and 0.23cum of 2.36mm & below and with 53.20Kgs of VG30/VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing the min required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to work site, spreading the mix to uniform thickness of 50mm with paver to the specified grades and cross sections and compacted by Vibratory/Pneumatic Roller to the required density etc., including labour for attending to paver at site etc., including hire charges and fuel charges for 20-30t CMP with bitumen boiler, tipper trucks, Paver Finisher/9m paver finisher, Vibratory/Pneumatic rollers and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 MORTH Rev-5			One Cubic Meter	

Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
8	77.00	M3	Providing and laying Bituminous Concrete to 40mm/30mm thick using 0.13cum of 19.00-9.50mm, 0.17cum of 9.50-2.36mm and 0.26cum of 2.36 and below with 50.30kgs of VG30/VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30t on capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory/Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30t CMP with bitumen boiler, tipper trucks, Paver Finisher/9mpaver finisher, Vibratory/Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5			One Cubic Meter	
9	70.00	M2	Sectioning of the side berms & carriage width including levelling cutting the undulations upto 150mm depth in proper camber and alignment and trimming the surfaces including depositing the earth in places shown and hire charges for tools and plants etc., complete as directed by the departmental officers.			One Square Meter	
10	6380.00	M3	Supplying and filling in foundation, basement, etc with filling <b>Stone dust</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	24		One Cubic Meter	
11	313.12	M3	Refilling the sides of foundation with excavated earth in layers of 150 mm thickness well watered and rammed and consolidated complying with relevant standard specification.	24		One Cubic Meter	
12	62.00	M3	Supplying and filling in foundation, basement, etc with filling <b>Gravel</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	24		One Cubic Meter	
13	68.41	M3	Supplying and filling in foundation, basement, etc with filling <b>MSand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	24		One Cubic Meter	
14	248.43	M3	Cement concrete 1:5:10 ( One of cement, five of sand and ten of hard broken stone jelly) for foundation and basement using 40 mm size hard broken stone jelly inclusive of shoring, strutting, baling out water wherever necessary ramming, curing etc., complete in all respect complying with relevant standard specifications and as directed by the departmental officers.	28		One Cubic Meter	
15	265.29	M3	Cement concrete 1:3:6 ( One of cement, three of sand and six of hard broken stone jelly) for foundation and basement using 20 mm size hard broken stone jelly inclusive of shoring, strutting, baling out water wherever necessary ramming, curing etc., complete in all respect complying with relevant standard specifications and as directed by the departmental officers.			One Cubic Meter	

Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
16	34.20	M3	Cement concrete 1:2:4 ( One of cement, two of sand and four of hard broken stone jelly) for foundation and basement using 20 mm size hard broken stone jelly inclusive of shoring, strutting, baling out water wherever necessary ramming, curing etc., complete in all respect complying with relevant standard specifications and as directed by the departmental officers.			One Cubic Meter	
17			Reinforced Cement concrete 1:1 1/2:3 (One of cement, one and half of sand and three of Hard broken stone jelly) for all RCC works namely Tee, Ell-rectangular beams, lintel, parapet cum drops, waist and landing slab, canophy, circular column, fin projections, sunshades, window boxing slab, loft and other similar works using 20mm gauge hard broken stone jelly excluding the cost and fabrication of reinforcement grills, shuttering and centering but including vibrating, laying, curing and finishing etc., complying with relevant standard specifications and as directed by the Departmental Officers in the following floors.				
a)	229.31	M3	In Foundation and Basement			One Cubic Meter	
b)	20.00	M3	Below 1.50 to 4.50m depth			One Cubic Meter	
c)	5.00	M3	In ground floor			One Cubic Meter	
18			Providing <b>form work for reinforced cement concrete</b> works using M.S.sheet of size 90x60cm and MS 10 guage stiffened with M.S. angle of size 25mmx25mmx3mm for boarding laid over silver oak (C.W.) joist of size 10cmx6.50cm (spaced about 90cm c/c) and supported by casurina post of 10cm to 13cm dia (spaced about 75cm c/c) etc., including strutting up to 3m height and removing the same after a specified period without damaging the RCC works in all floors complying with relevant standard specification and as directed by the Departmental Officers.	30			
a)	4280.00	M2	a) For R.C.C. works in foundation and basement such as pile cap grid beam ,plinth beam, raft beam ,raft slab, column base, column footings etc all complete			One Square Meter	
b)	120.00	M2	b)For R.C.C Works in <b>Circular foundation and basement</b> such as Pile cap, Grid beam, Plinth Beam, Raft Beam, Raft slab, Column base, Column Footings etc			One Square Meter	
c)	83.00	M2	c) For R.C.C Works such as <b>Floor and curved roof slab,lintels, Beams</b> Staircase Waist and landing slab and curved surfaces and similar works etc all Complete			One Square Meter	
19	30.91	MT	Supplying, fabricating and placing in position of Mild steel of grade 500 fe /Ribbed Tor Steels for reinforcement for all floors including cost of binding wire, bending, tying etc, all complete compplying with relevant standard specification and as directed by the departmental officers.			One Metric Tonne	
20	375.50	KG	Supply and fixing of steel door and window of approved design confirming to IS 1038/1983 and as per IS 7452/1982 specification with one coat of red oxide primer etc all complete complying with relevant standard specification and as directed by the Departmental Officers.			One Kilo Gram	

Contractor

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Superintending Engineer

Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
21			Flyash Brick work in cement mortar 1:6 ( One of cement and six of sand) using second class chamber burnt ground moulded bricks of size 9"x4-3/8"x2-3/4" having crushing strength of 50Kg/sqcm for super structure in Ground floor including labour for fixing the doors ,windows and ventilator frames in position fixing of hold fast ,scaffolding ,curing etc complete in all respects complying with relevant standard specifications and drawings and as directed by the Departmental Officers.				
a)	12.00	M3	In Ground Floor			One Cubic Meter	
22	0.30	M3	Brick work in cement mortar 1:4 ( One of cement and four of sand) using second class chamber burnt ground moulded bricks of size 9" x 4 3/8" x 2 3/4" having crushing strength of 50Kg/sqcm for super structure in Ground floor including labour for fixing the doors ,windows and ventilator frames in position fixing of hold fast ,scaffolding ,curing etc complete in all respects complying with relevant standard specifications and drawings and as directed by the Departmental Officers.( Steps)	31		One Cubic Meter	
23	5.00	M2	Plastering in cm 1:4 (One of cement and four of P-sand) 20mm thick including surface rendered smooth including providing proper slopes, thread lining, curing and 150mm wide skirting around with the same cement mortar etc., complete in all respects.			One Square Meter	
24	10.00	M2	Brick Partition Wall in Cement Mortar 1:4 ( One of cement and four of sand) 114 mm thick for superstructure In Ground Floor using chamber burnt second class ground moulded bricks of size 9" x 4 3/8" x 2 3/4" having crushing strength of 50Kg/sqcm, including labour for fixing the doors,windows and ventilator frames in position fixing of hold fasts scaffolding, curing etc. complete in all respects complying with relevant standard specifications and drawings and as directed by the departmental Officers. <b>In Ground Floor</b>			One Square Meter	
25	9.00	M2	Providing cuddappah slabs of 20mm thickness for cupboards, wardrobes ,shelves, of well polished on both sides smoothly including fixing with CM 1:3 (one of cement three of sand) including cutting the wall and cuddapah slab to the required size laying fixing in position and finishing with black oxide wherever necessary neatly etc. as all complete complying with relevant standard specificaton and as directed by the dept. officers in Ground Floor.			One Square Meter	
26	3.00	M2	Supplying and fixing of 3 mm thick pin headed glass window panels with aluminium anodised 'U ' shape beeding of size 12 X 12 mm with 107 gram in average weight for 1 m length with aluminium bolts and nuts for the shutters of the steel windows already supplied to suit all the sizes as directed by the departmental officers . ( The quality of glass and aluminum beeding should be got approved from the Executive Engineer before use.) SR 2021-22 PG.44 Item.135			One Square Meter	
27	2.00	No	Supply and fixing of C.I.manhole cover with locking arrangements of approved quality and brand of size 60 x 60 cm (Heavy Duty) including cost of material labour chares for fixing etc all complete complying with relevant standard specification and as directed by the Departmental Officers.( The brand and model of the CI manhole cover has to be got approved by the Departmental Officers before fixing)			Each	

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	Qty	Per					
28	32.00	M2	Finishing the top of n flooring with cement concrete 1:3 (One of cement and three of blue granite chips of size 10mm, and below) 20 mm thick <b>Ellis Pattern Flooring</b> (No Sand) and surface rendered smooth including 50mm wide skirting, providing proper slopes, thread lining, curing etc., complete in all floors complying with relevant standard specifications.			One Square Meter	
29	2.00	M3	"Weathering Course with concrete broken brick jelly lime concrete 20mm gauge in pure burnt lime stone slaked and screened (No Sand) over RCC Roof Slab with proportion of brick jelly to lime (fat lime) being 32: 12 1/2 by volume well beaten with wooden beaters for giving the required slope and thickness etc., complete in all respects complying with relevant standard specifications and as directed by the Departmental officers."			One Cubic Meter	
30	18.00	M2	Finishing the top of roof slab with one course of <b>hydraulically pressed tile</b> of approved superior quality of size 23 cmx23cm, 20mm thick laid over weathering course in cement mortar 1:3 ( One of cement and three of sand) 12mm thick, mixed with water proofing compound at 2% by weight of cement used and pointed neatly with the same cement mortar mixed with water proofing compound including curing etc., complete in all respects complying with relevant standard specifications and as directed by the departmental officers. (Note:Tiles to be got approved by the departmental officers before use )			One Square Meter	
31	140.50	M2	Plastering with Cement Mortar 1:5 ( One of cement and five of sand) 12mm thick finished with neat cement including, providing band cornice scaffolding curing etc., complete complying with relevant standard specification and as directed by the departmental officer.			One Square Meter	
32	193.00	M2	Plastering with Cement Mortar 1:3 ( One of cement and three of sand) <b>10mm thick</b> , finished with neat cement including, providing band cornice scaffolding curing etc., complete complying with relevant standard specification and as directed by the departmental officer.			One Square Meter	
33	929.80	M2	Finishing the top of flooring with cement mortar 1:4 (One of cement and four sand of) 20 mm thick Flooring surface rendered smooth including 150mm wide skirting, providing proper slopes, thread lining, curing etc., complete in all floors complying with relevant standard specifications.(Drain & Culvert)			One Square Meter	
34	29.00	M2	Plastering with cm 1:4 (One of cement and our of sand) 20mm thick finished with Water Proofing Compound including providing band cornice, ceiling cornice, curing, scaffolding, etc., complete in all respects and complying with relevant standard specifications. For Sump Base Slab - Bottom			One Square Meter	
35	196.00	M2	White washing two coats using clean shell lime slaked and screened including cost of lime, gum, blue brushes, scaffolding etc., complete in all respects complying with relevant standard specifications and as directed by the departmental officers.			One Square Meter	
36	162.81	M2	Painting the new walls with two coats of approved cement paint over one coat of primer such as snowcem /supercem etc., including cost of brushes, cement paints scaffolding curing etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. ( The quality and shade of paint should be got approved by the Executive Engineer before use).			One Square Meter	
37	1.00	No	Providing Aluminium Ladder (3.45 m Depth) with relevant standard specification and as directed by the departmental officers.			Each	

Contractor

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	Qty	Per					
38	17.00	M2	Painting new iron work with two coats of approved 1st class synthetic ready mixed enamel paint of approved quality and shade. The paint should be supplied by the contractor at his own cost. (The quality and shade of the paint should be got approved from the Executive Engineer before use on works) including cost of paint ,brushes etc.all complete complying with relevant standard specifications.			One Square Meter	
39	75.10	M2	Providing precast cement concrete slab in R.C.C 1:2:4 (one of cement,two of sand and four of hard broken stone jelly) using 20mm hard broken stone jelly for the following thickness excluding cost and fabrication of reinforcement grills but including precasting, moulding ,curing, finishing and fixing in position etc., complete complying with relevant standard specifications and as directed by the Departmental officers. 75 mm thick pre cast slab.			One Square Meter	
40	90.00	No	Supply and planting of Avenue trees -5' height including earth work excavation for pit of size 60X60X60cm filled with manure for 20cm depth and filling with river sand and red earth mix in the ration of 1:1 for 40cm depth in the same pit and planting the avenue tree(Maintenance for 6 Months)			Each	
41	90.00	No	Supplying and fixing of triangular shape chicken mesh TREE GUARD using 8 cm dia. Casurina vertical postand middle tie using country wood reeper of size 50X25mm and 25 gauge chicken mesh including labour charges for fixing the triangular tree guard and as directed by departmental officers.			Each	
42	250.00	No	Supplying and fixing of survey stones size 0.75 x 0.15 x 0.15m having dressed on two sides for a height of 30 cm from top including with necessary earth work excavation and fixing them in position complete as directed at site of work.			Each	
43	1000.00	Rmt	Supplying and fixing of barbed wire fencing using two ply 10 gauge wire at 0.30 m interval in horizontal and two diagonals etc., complete including cost of barbed wire and binding wire and fixing in position etc., complete as directed by departmental officers			One Running Meter	
44	75.00	No	Supplying and fixing of Rcc Post 0.15 x 0.15 at base and 0.10x0.10 at top and 2.10m height for FENCING			Each	
45			Providing Strut for PCC Drains precast cement concrete in R.C.C 1:2:4 (one of cement,two of sand and four of hard broken stone jelly) using 20mm hard broken stone jelly for the following thickness of 100mm including cost and fabrication of reinforcement grills, precasting, moulding ,curing, finishing and fixing in position etc., complete complying with relevant standard specifications and as directed by the Departmental officers.				
a)	20.00	No	FOR DRAIN SIZE OF 30 X 45 CM			Each	
b)	303.00	No	FOR DRAIN SIZE OF 45 X 60 CM			Each	
c)	102.00	No	FOR DRAIN SIZE OF 60 X 75 CM			Each	
46	170.00	Rmt	Supplying and Fixing of 63mm dia PVC pipe in Drain Walls for discharging Storm water etc as directed by the departmental officers.			One Running Meter	

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Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
47	2.00	No	Supplying and Fabrication and Erection in position of M.S scheme name and layout board with 50 X 50 x 6 mm M.S angle for vertical post and support posts with 2.5mm tk M.S Sheet for a size at 1.80 x 1.20 m with 40 x 40x6mm MS angle around the board and 50 x 6 mm flat stiffeners on both direction including cost of welding charges painting charges and drawing the layout and lettering the scheme details as directed by the departmental officers including earth work excavation for 4 nos of pits, PCC 1:5:10 for pits 0.45 x 0.45 x 0.60m below Ground level and p.c.c 1:2:4 at 0.30 x 0.30 x 0.30 m above Ground level for erection conveyance charges etc., all complete and as directed by the departmental officers.			Each	
48	16147.00	M2	Clearing and removing Scrub jungle in the scheme area including labour for removing, burning and clearing the same as directed by the departmental officers.			One Square Meter	
49	30.00	Rmt	Run off the 4 wires of 4 sqmm Copper PVC insulated unsheathed single core Multi Strand Fire Retardant 1.1 KV grade copper cable with ISI Mark conforming to IS:694/1990with one run of 7/20GI stay wire suspended with porecelin reel insulators at 1.0m centre to centre for support of phase and neutral cable from top of street pole to the house / flats including all materials etc... all complete for EB service connections including labour charges for fixing GI wire and MS angles (For EB Service connection three phase)			One Running Meter	
50	2.00	No	Supplying and fixing of 1 no of 450x375x20mm thick TW Plank varnished with 3 no of 32 amps 500 volts fuse unit and 1 no copper earth plate of suitable size bolts and nuts on wall for EB service connections including cost of all materials etc., all complete (Three phase service connection)			Each	
51			Supply and fixing of 40mm dia-B class GI pipe confirming to ISS for E.B service connection (Three phase)for passing throught from top of pumphoom to the EB Board				
a)	3.00	Rmt	40mm dia G.I pipe for EBSC			One Running Meter	
52			Wiring with 2 x 1.5 sqmm copper PVC insulated unsheathed single core Multi Strand Fire Retardant 1.1 KV grade copper cable with ISI Mark conforming to IS:694/1990and with continuous earth by means of 1.5 sqmm copper insulated unsheathed single coreMulti Strand Fire Retardant 1.1 KV grade copper cable with ISI Mark conforming to IS:694/1990 in fully concealed PVC rigid conduit pipe heavy duty with ISI with suitable size MS box of 16 SWG thick concealed and covered with 3mm thick laminated hylem sheet for <b>light point with celing rose</b> controlled by 5 amps flush type switch including circuit mains cost of all materials, specials etc., all complete complying with relevant standard specifications & as directed by the departmental officers.				
a)	12.00	No	Light point with ceiling rose.			Each	
b)	4.00	No	Light point without ceiling rose with bakelite battern type holder			Each	



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	Qty	Per					
53	6.00	No	wiring with 2 x 1.5sqmm copper PVC insulated unsheathed single core Multi Strand Fire Retardant 1.1 KV grade copper cable with ISI Mark conforming to IS:694/1990 and with continuous earth by means of 1.5 sqmm copper insulated unsheathed single core Multi Strand Fire Retardant 1.1 KV grade copper cable with ISI Mark conforming to IS:694/1990 in fully concealed PVC rigid conduit pipe heavy duty with ISI with suitable size MS box of 16 SWG thick concealed and covered with 3mm thick laminated hylem sheet for <b>5 amps 5 pin flush socket point at switch board</b> itself circuit mains cost of all materials, specials etc., all complete complying with relevant standard specifications & as directed by the departmental officers.			Each	
54	20.00	Rmt	Run off the 2 wires of 2.5 sqmm Copper PVC insulated unsheathed single core Multi Strand Fire Retardant 1.1 KV grade copper cable with ISI Mark conforming to IS:694/1990 with continuous earthing means of 2.5 sqmm copper PVC Insulated unsheathed single core multistand fire retaradant 1.1 kv grade cable confiring to IS 694/1990 in fully concealed 19/20 mm dia rigid pvc conduit pipe (heavy duty ) with ISI mark including cost of all materials specials etc., all complete .complying with relevant standard specifications and as directed by the departmental officers.			One Running Meter	
55	1.00	No	Supply and fixing of 40X40X6mm M.S Angle for single phase EB Service connection to meet the E.B requirements etc., all complete .complying with relevant standard specifications and as directed by the departmental officers.			Each	
56	8.00	No	SUPPLYING and laying of 8 SWG GI Wire on wall below GL With necessary U nails earth work excavation and refilling etc. Complete complying with relevant standared specifications and as directed by the departmental officers.			Each	
57	2.00	No	Supplying & fixing of water tight bulk head fittings with chokeguard suitable for 60/100 Watts bulb including necessary connections cost of materials, supply of one number of Bulk Head fitting, 11 watts CFL lamp etc. all complete as directed by the Departmental Officers.			Each	
58	1.00	No	Supplying and fixing of 32 Amps Triple pole switch with metal clad (side handle) with rewireable fuse unit on a suitable well varnished Teak wood of board including necessary inter connection and earth connection, cost of all materials etc., all complete. SR-20-21			Each	
59	1.00	No	Providing Earthing station using pipe electrode as per IS 3043 using 2.0m of 40mm and 1.0 m of 20mm B-class 1m of 15mm GI pipe including earth work excavation, brick work in cement mortar and plastering and cost of funnel, GI nuts, bolts, washers, check nuts, GI bend, reducer and coupling, C.I. cover of 30x30cm and including charcoal of 25 kgs and salt 10 kg etc., all complete complying with relevant standard specifications & as directed by the departmental officers.			Each	
60	2.00	No	Supplying and fixing of five star rated high speed Ceiling Fan with electronic stepped regulator etc. all complete specification and as directed by the Departmental Officers.			Each	

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61			Supplying, laying and joining the following dia PVC (SWR) pipe type B class having pressure 6kg/cm2 confirming to IS 13592 and relevant specials including necessary earth work excavation for trenches and refilling the same, well rammed and consolidated after the pipes are joined with lubricant, laid to proper gradient and to the alignment etc complete in all respects complying with relevant standard specifications and as directed by the departmental officers Below ground level(The brand and quality of pipes should be got approved from the departmental officers. before use).				
			<b>For Distribution line</b>				
a	60.00	Rmt	90 mm dia PVC pipe (6Kg/Sq.cm) Below G.L			One Running Meter	
b	1160.00	Rmt	63 mm dia PVC pipe (6Kg/Sq.cm) Below G.L			One Running Meter	
c	420.00	Rmt	25 mm dia PVC pipe (10Kg/Sq.cm) Below G.L			One Running Meter	
d	15.00	Rmt	25 mm dia PVC pipe (10Kg/Sq.cm) for Wiring Above G.L			One Running Meter	
e	160.00	Rmt	50 mm dia. PVC Pipe 6 kg/sq.cm below GL (Borewell to Sump+Motor to Delivery)			One Running Meter	
f	560.00	Rmt	50mm HDPE Pipe for Borewell			One Running Meter	
62	7.00	Rmt	Supplying and fixing of 110mm dia PVC rain water down fall pipe 4 Kg /sqcm, of approved quality with necessary C.I. Gratings 110 mm dia PVC plain bend , 110 mm PVC shoe ,off sets,M.S. special clamps (heavy) teak wood plugs and screws of approved quality etc. including fixing C.I. grating 100mm dia at the junction of parapet and floor or roof slab and jointing with rubber lubricant etc, complete complying with relevant standard specifications and as directed by the departmental officers.			One Running Meter	
63			Supply and delivery of the following PVC rigid pipes of pressure rating 6KSC with ISI mark and specials of approved quality including cost of materials and conveyance to site of work etc.complete.(The quality and brand of pipe and specials should be got approved by the departmental officers before use)				
a	3.00	No	PVC Tee 90 mm			Each	
b	6.00	No	PVC Tee 63 mm			Each	

Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
c	6.00	No	PVC end cap 63 mm			Each	
d	83.00	No	PVC end cap 25 mm			Each	
e	2.00	No	PVC End Cap 50 mm			Each	
f	1.00	No	PVC Bend 90 mm			Each	
g	6.00	No	PVC Bend 63 mm			Each	
h	20.00	No	PVC Bend 50 mm			Each	
i	2.00	No	PVC reducer 90x63 mm			Each	
j	83.00	No	PVC reducer 63x25 mm			Each	
k	10.00	No	PVC reducer 50mm			Each	
l	83.00	No	PVC saddle piece 63x25 mm			Each	
m	83.00	No	PVC Ferrule 25 mm			Each	
n	5.00	No	PVC 90mm Flange with Tail piece			Each	
o	10.00	No	PVC 90mm adopter			Each	
p	2.00	No	50mm dia PVC Adopter			Each	
q	27.00	Rmt	110 mm PVC pipe- 6kg/sq.cm for Road Crossing			One Running Meter	

Contractor

No. of corrections

Superintending Engineer

Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
r	103.00	Rmt	50mm PVC pipe - 6kg/sq.cm for Road Crossing			One Running Meter	
64			Construction of <b>Valve pit chamber of size 90X90X90CM</b> as per standard type design including earth work excavation in all soils and sub soils except in hard rock requiring blasting refilling the sides of foundation with excavated earth foundation concrete with cement concrete 1:5:10 using 40mm HBG jelly, brick work in cement mortar 1:5 using chamber burnt II nd class ground moulded bricks of size 9"x4 3/8" x 2 3/4 and plastering with cement mortar 1:5, 12mm tk, plain cement concrete 1:2:4 using 20mm gauge HBG jelly and RCC precast slab of 75mm tk using 20mm gauge HBG jelly excluding cost and fabrication of steel grills but including jointing pipe lines and specials, fixing valves and surface box etc. all complete complying with relevant standard specification and as directed by the departmental officers.				
a	1.00	No	Construction of Fire hydrant valve pit as per standard type design vide <b>Type design No.PH/SHB/1/92</b> (100mm dia)			Each	
b	1.00	No	Construction of Scour valve pit as per standard type design vide <b>Type design No.PH/SHB/6/86</b> (100mm dia)			Each	
c	3.00	No	Construction of Sluice valve pit as per standard type design vide <b>Type design No.PH/SHB/3/86</b> (90mm dia)			Each	
65	2.00	No	Construction of Borewell <b>chamber of size 90X90X90CM</b> as per standard type design including earth work excavation in all soils and sub soils except in hard rock requiring blasting refilling the sides of foundation with excavated earth foundation concrete with cement concrete 1:8:16 using 40mm HBG jelly, brick work in cement mortar 1:5 using chamber burnt IInd class ground moulded bricks of size 9"x4 3/8" x 2 3/4" and plastering with cement mortar 1:3, 12mm tk and RCC 1:2:4 using 20mm metal for petty works excluding cost and fabrication of steel grills but including jointing pipe lines and specials, fixing valves and surface box etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Each	
66	3.00	No	Supplying and fixing of MS fabricated <b>DOL panel control Board with auto-starter of wall mounting type with ISI mark with ammeter voltmeter</b> including lamps ON/OFF push button with necessary connections and relay suitable for the above and as directed by the departmental officer for following compressors & Pump sets.			Each	
67	1.00	No	Supplying and fixing of Change over switch-63 Amps. Three phase-500V -4 pole change over switch cost of all materials etc., all complete and as directed by the departmental officers.			Each	
68	735.00	Rmt	Supplying and fixing 4.0 sqmm PVC flat submisible 3 core copper flat cable of approved quality with ISI mark of confirming ISI specification including cost of cable, conveyance and fixing charges etc., complete in all respects. And as directed by the departmental officers			One Running Meter	

Contractor

No. of corrections

Superintending Engineer

Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
69	2.00	No	Supplying and delivery of wet type lubricated <b>Submersible motor of 5.0 HP with multistage pumpset as per ISI specification suitable for opening AC 3 phase electric power.</b> The pumpset is suitable for 150 mm dia borewell and for the following specifications shall be guaranteed for by the departmental officer. Motor:- 6" dia submersible motor is a squirrel case wet type water cooled fully rewindable motor 3 phase at 400 to 415 volts. Pump:- submersible pump are radial flow impeller design impellers are engineering polymor no of stages. total head range:- 175 metre discharge at - 1.30 Lps Delivery size :- 50mm dia G.I. delivery line. The brand name and quality of submersible pump set should be furnished.			Each	
70	2.00	No	Supplying and delivery of <b>centrifugal Mono block pumpset</b> of reputed make with ISI mark as per IS 9079/ 1989 with the following technical specifications as directed by the departmental officers. (The Brand and quality of the pumpset and materials should be got approved from the E.E. before use.) <b>Capacity - 5.00 HP</b> Type -Mono block pump Speed - 2800 RPM Accessories - Air release cock, priming funnel, base plate, foundation bolts etc. Motor-3.00HP, 415 V +5%, AC -3 Phase, 50 HZ.			Each	
71			Supplying and fixing of following GI/CI.Pipes and specials with ISI mark at best quality conforming to IS specification including cost of materials and conveyance etc., all complete and as directed by the departmental offices.				
a	5.00	Rmt	G.I pipe 65 mm dia			One Running Meter	
b	10.00	Rmt	G.I pipe 50 mm dia			One Running Meter	
c	10.00	No	50 mm dia. G.I. hex nipple for Borewell Connection			Each	
d	12.00	No	50 mm dia. G.I. Coupling for Borewell Connection			Each	
e	580.00	Rmt	1" Nylon Rope			One Running Meter	
f	2.00	No	50mm Borewell G.I Union for Borewell to outer PVC Pipe Connection			Each	
g	6.00	No	50mm M.S Hose Collar			Each	
h	2.00	No	50mm G.M Non Return Valve			Each	

Contractor

No. of corrections

Superintending Engineer

Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
i	4.00	No	65 mm dia G.I bend			Each	
j	4.00	No	65 mm dia G.I coupling			Each	
k	1.00	No	C.I foot valve 50 mm dia			Each	
l	3.00	No	50 mm dia. Barrel Nipple.			Each	
m	2.00	No	65 mm dia G.I Tee			Each	
n	4.00	Set	65 mm dia G.I Flange			One Set	
o	2.00	Set	50 mm dia G.I Flange			One Set	
p	2.00	No	50 mm dia G.I bend			Each	
q	2.00	No	50 mm dia G.I Tee			Each	
r	1.00	No	50 mm dia PVC End Cap			Each	
s	2.00	No	50 mm dia. Barrel Nipple.			Each	
t	2.00	No	50 mm dia G.I Elbow			Each	
u	1.00	No	50mm Brass Gate Valve			Each	
v	10.00	Set	Aluminium clamp set			One Set	
w	2.00	No	Wooden Plank -2'X2'			Each	

Contractor

No. of corrections

Superintending Engineer

Item No	Approx Qty		Description of works	TNBP No	Rate Including GST	Unit in Words	Total Amount
	Qty	Per					
x	1.00	No	Wooden Plank -1'X1'			Each	
72	2.00	No	Labour charge for erection of submersible pumpsets in Sump. Including fixing and joining and submersible with proper clamps upto the starter to the required depth walls erection clamps pressure gauge upto the exterior wall of pumproom and erection of panel board consisting of PPIC sutchers starters voltmeter, ammeter, 3 pilot (indicating) lamps capacitor, and laying and joining the cable and twin earthing as per IE rules etc., complete and testing the pumps on trial run of 10 days. (for 5 HP submersible pumpset)			Each	
73	1.00	No	Labour Charges for erection of <b>MONOBLOCK</b> pumpset (Coupled/Monoblock) in bore well/Open well including fixing of suction pipe and foot valve upto a maximum depth of 7 metres and delivery pipes to the required length with valves, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPIC switches starter, Voltmeter, Ammeter, Capacitor single phasing preventor as directed by the departmental Officers.			Each	
74			Supplying and fixing 30W LED CUB Model Street light fittings all type in the existing street poles with required GI Pipes "B" Class and accessories				
a	3.00	No	For 7 m Road poles			Each	
b	7.00	No	For 9m Road poles			Each	
75	2.00	No	Supply and fixing of 2 Nos. of MS Box of size not less than 600X225X100mm 16g with door and lock and key arrangements for obtaining E.B. Service connection for street lights with One box comprising of 1 Nos. 32 AMPS 500 V fuse Units, 1 No. copper earth plate with required brass bolts and Nuts with washers on a suitable single TW plank of 20mm thick for fixing E.B. meter and other box comprising of 1 No. 32 AMPS DPIC, 1 No 40 AMPS single pole MCB isolator with connections MS sheets steel enclosure for controlling the street lights on suitable single TW plank of 20mm thick and including necessary bolts and Nuts in the TNEB pole with washers and run off 4 Sq.mm copper PVC insulated unsheathed single core/cable in 20mm "B" grade class "GI" pipes with ISI mark of required quantity for street light service connection etc., all complete in all respects and as directed by the departmental officers.			Each	
76	7.00	No	Supplying fabrication and erection in position of M.S. Street name Board and layout board with 25X25X5mm M.S. angle for vertical post and support posts with 25mm thick M.S. sheet for a size of 0.90X0.30m with 25X25X3mm M.S. angle around the Board including cost of welding charges, painting charges, and drawing the layout and lettering the scheme details as directed by departmental officers including Earth work excavation for 2 Nos. of pits filled with necessary C.C. 1:5:10 & PCC 1:2:4 etc., complete.			Each	
				Total			
			<b>Rupees</b>				

Contractor

No. of corrections

Superintending Engineer