

**PAPPIREDDIPATTI TOWN PANCHAYAT**  
**SCHEDULE - A**  
**Schedule of rates and approximate quantities**

a) The quantities here given are those upon which the estimate cost of the work is based but they are subject to alterations, commissions, deduction or additional as provided for in the conditions of this contract and do not necessarily show the actual quantities of work to be done. The unit rates notes below are those government payment for extra or deductions read with the Town Panchayat councils adaptation form and other conditions or specification of this contract and subject to the accepted tender percentage either below, above or at estimate rates as defined in the tender and as shown at the end of Schedule "A"

b) It is expressly understood that measured work is to be taken net-not withstanding any custom to practice to the contrary according to actual quantities when in place and finished according to the drawing or as may be ordered from time by the Assistant Executive Engineer at the cost calculated by measurement or weight at the respective prices with out any additional charge for any necessary or contingent works connected here with. The rates quoted are for works In-SITE and completed in every respect.

**Name of the work : Construction of LPG Gasifier Crematorium at Ward No.1 Kamarajar Nagar Burial Ground at SFNo 24/1 in Pappireddipatti Town Panchayat in Dharmapuri District.**

Issued Thiru :  
Chalan no. Dt.

**Executive Officer**  
Pappireddipatti Town Panchayat  
Dharmapuri District

**Name of Scheme :-KNMT 2022-23**

**Estimate Rs 139.00Lakh**

Sl. No	Probable Qty. in Figures	Description of Work	TNDSS & MORTH Specification No.	Rates in Rupees		Unit in Approved	Remarks
				Figure	Words		

**PAPPIREDDIPATTI TOWN PANCHAYAT**  
**TENDER SCHEDULE**

Estimate Amount: Rs:13900000.00/-

Name of the work : Construction of LPG Gasifier Cremetorium at Ward No.1 Kamarajar Nagar Burial Ground at SFNo 24/1 in Pappireddiapatti Town Panchayat in Dharmapuri District.

EMD. Amount:  
Tender Date  
Issued to

**BILL OF QUANTITIES**

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
1		Earthwork excavation for foundation in all soils and sub soils except in hard rock requiring blasting and depositing on bank with initial lead of 10m and initial lift of 2m inclusive of shoring, shuttering, bailing out water wherever necessary, refilling the foundation with excavated earth other than sandy soil in layers of not more than 150mm thick layers well rammed and depositing the surplus earth within the compound in place shown by the departmental officers and clearing and levelling the site etc,. complete.	TNDSS No (23&24)(S2)				
	386.50 M3	a)For Foundation				1 cum (One Cubic Metre)	
	63.50 M3	b)Greade beam				1 cum (One Cubic Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
2	55.00 M <sup>3</sup>	Supplying and filling in foundation and basement with filling Msand in layers of not more than 15cm thick well rammed, watered and compacted etc., complete complying with standard specification.	TNDSS 24&25			1 cum (One Cubic Metre)	
3	65.00 M <sup>3</sup>	Plain Cement concrete 1:4:8 [one cement, four sand and eight course aggregates] using 40mm size Hard Broken/Machine crushed Granite Stone Jelly including dewatering if found necessary and laid in layers of not more than 15cm thick and compacted etc., complete complying with standard specification.	TNDSS 28(SS2)			1 cum (One Cubic Metre)	
4	5.00 M <sup>3</sup>	Plain Cement concrete 1:2:4 [one cement, two sand and four course aggregates] using 20mm size Hard Broken/Machine crushed Granite Stone Jelly including dewatering if found necessary and laid in layers of not more than 15cm thick and compacted etc., complete complying with standard specification.	TNDSS 28,V1(S2 )			1 cum (One Cubic Metre)	
5	395.00 M <sup>2</sup>	Supplying and erecting centering including necessary supports for the plane surfaces such as RCC Column Footing, Plinth Beam, & Sill Beam etc., using mild steel sheets of size 90cm x 60cm and BG 10 stiffened with welded mild steel angles of size 25mm x 25mm x 3mm for boarding supported by casurina props of 10cm to 13cm dia spaced at suitable intervals etc., complete complying with standard specification.	TNDSS 28,V1(S2 )			1 cum (One Cubic Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
6		Supplying and erecting centering for soffits of plane surfaces like RCC Slabs, Lintels, Sunshades, Square Columns, Staircase waists, Beams etc., including strutting 3m high using mild steel sheets of size 90cm x 60cm and BG 10 stiffened with M.S angles of size 25mm x 25mm x 3mm laid over silver Oak (C.W) joists of size 10cm x 6.5cm (spaced at about 90cm c/c) and supported by casurina props of 10cm to 13cm dia (spaced of 75cm c/c) etc., complete complying with standard specification.	TNDSSN o94,VI,VI I(S6)				
a	330.00 M <sup>2</sup>	For Column	TNDSSN o94,VI,VI I(S6)			1 Sqm (One Square Metre)	
b	455.00 M <sup>2</sup>	For Lintel ,Roof slab etc.,	TNDSSN o94,VI,VI I(S6)			1 Sqm (One Square Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
7		Providing and laying in position standardised concrete mix M-20 Grade in accordance with IS 456-2000 using 20mm and down graded hard broken jelly for all RCC items of works with minimum cement content of 3250kg/10cum and maximum water cement ratio of 0.50 including admixture (Plasticiser / super plasticiser) in recommended proportions as per IS 9103 to accelerate, related setting of concrete, improve workability without impairing strength and durability with about (5.0cum) 7730kg of 20mm machine crushed stone jelly and with about (3.30cum) 5156kg of 10-12mm machine crushed stone jelly and with about (4.79cum) 7760kg of sand, but 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 without claiming extra cost etc., complete complying with standard specification and directed by the departmental officers. The Coarse and fine aggregates to be used should comply with the requirements of IS standards.					
a	68.00 M <sup>3</sup>	BELOW GROUND LEVEL	TNDSS 30,VI,VII (S3)VII3			1 cum (One Cubic Metre)	
b	70.00 M <sup>3</sup>	ABOVE GROUND LEVEL	TNDSS 30,VI,VII (S3)VII3			1 cum (One Cubic Metre)	
8	13800.00 kg	Supplying, fabricating and placing in position of Steel Reinforcement using Mild Steel or Ribbed Tor steel bars for reinforcement to all RCC works as per the design given including cost of steel and binding wire also in all floors etc., complete complying with standard specification.	TNDSS 45,89,86 (S6)			1 Kg (One Kilogram)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
9	285.00 M <sup>3</sup>	Supplying and filling Well gravel in layers of not more than 15cm thick well rammed, watered and compacted etc., complete complying with standard specification.	Special			1 cum (One Cubic Metre)	
10	30.00 M <sup>2</sup>	Damp proof course in cement mortar 1:4 [one cement and four sand] 12mm thick mixed with water proofing compound confirming to 1:4 [one cement and four sand] at 2% by the weight of cement used etc., complete complying with standard specification.	Special			1 Sqm (One Square Metre)	
11		Brick work in following Cement Mortar using best quality Fly ash bricks of size 23x11x7cm for foundation and basement including curing etc.,complete complying with standard specification.	TNDSSN o30,VI(S 4)				
a	45.00 M <sup>3</sup>	For Foundation and Basement	TNDSSN o30,VI(S 4)			1 cum (One Cubic Metre)	
b	74.00 M <sup>3</sup>	For superstructure in Ground Floor	TNDSSN o30,VI(S 4)			1 cum (One Cubic Metre)	
c	25.00 M <sup>3</sup>	For superstructure in 1st Floor	TNDSSN o30,VI(S 4)			1 cum (One Cubic Metre)	
12	45.00 M <sup>2</sup>	Brick partition walls of 11.50cm thickness using best quality Fly Ash Bricks of size 23 x 11 x 7 cm in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)	TNDSS No31&S1 ,31(V,VI) S5			1 Sqm (One Square Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
13	6.00 M <sup>3</sup>	Plain Cement Concrete 1:2:4 Mix (one part cement, two part sand and four part of aggregate) using 20mm size ISS HBG metal machine crushed from approved quarry including cost and conveyance of all materials to site, loading and unloading charges and labour charges for mixing, laying and curing etc. complete. Complying with std. specifications.	TNDSSN o28,VI(S2)			1 cum (One Cubic Metre)	
14	4600.00 Kg	Supply and fixing of M.S Grills with Doors, Windows, Ventilators and Gates of required size suitable to site condition with one coat of red oxide with primer including all costs such as welding, grinding and fabrication charges, cost and conveyance of all materials to site etc., complete as per standard specification.	Special			1 Kg (One Kilogram)	
15	481.00 M <sup>2</sup>	Ceiling Plastering with cement mortar 1:3 mix, 10mm thick in all floors for RCC slabs, Beams, Sunshades including packing, providing cement mortar beading for sunshades, staircase steps, landing slabs etc., as directed by the departmental officers etc., complete complying with standard specifications.	TNDSSN o56,57			1 Sqm (One Square Metre)	
16	1300.00 M <sup>2</sup>	Plastering with cement mortar 1:5 mix, 12mm thick in all floors using clean screened sand and including cost of curing for fifteen days from the completion of the work and surface should free from undulations and including the cost of preparing the surface for plastering and protecting from other damages till setting of mortar etc., complete complying with standard specification.	TNDSSN o56,57			1 Sqm (One Square Metre)	
17	22.00 M <sup>3</sup>	Weathering Course with Brick jelly lime concrete made in Broken Brick Jelly 20mm gauge in pure slaked lime (no sand to be added) laid over roof slab, the proportion of brick jelly to lime being 32 to 12.5 and well beaten with wooden beaters for giving required slope and thickness etc., complete complying with standard specification.	TNDSSN o38,31VI,V(S5)			1 cum (One Cubic Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
18	280.00 M <sup>2</sup>	Finishing the top of the roof slab with one course of Machine pressed tiles of size 20cm x 20cm x 2cm of approved quality laid in cement mortar 1:3 [one cement and three sand] 12mm thick mixed with waterproofing compound 2% by the weight of cement used and the top pointed with same mortar etc., complete complying with standard specification.	TNDSSN o56,57			1 Sqm (One Square Metre)	
19	12.00 M <sup>2</sup>	Supply and fixing Solid PVC door shutters without frame using 19 Gauge 19mm MS square tubes for styles. 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 etc., complete complying with standard specification.				1 Sqm (One Square Metre)	
20	12.00 M <sup>2</sup>	Supplying and erecting Pull and Push Type Manually Operated (up to 8 sqm. Area) Rolling Shutter with ISI make of approved size and section using 18 GI sheet. The shutter shall be painted with one coat of red oxide primer and the rate is inclusive of hood covers, transportation charges.				1 Sqm (One Square Metre)	
21	13.00 M <sup>2</sup>	Supplying & fixing door Solid Core Flush Shutters with teakply 35 mm thick, single leaf conforming to with 35 x 12mm T.W.Lipping on all edges with necessary adhesives and CP screws complying with standard specifications. The rate is inclusive of threee coats of best quality varnish but excluding cost of furniture fittings.such as 300 mm tower bolt 2nos,200mm towerbolt I no. 300mm Aldrop 1 No. Alu handle ornamental type 2 Nos,and 1 No. Door stopper etc complete.				1 Sqm (One Square Metre)	



SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
22	30.00 RM	Stainless Steel (Salem Stainless Steel) Door Frame (Box Section using Stainless Steel Plate of 1.6mm thick) of size 100mm x 60mm with a rebate of 30 / 35mm x 15mm on one side of the frame including supplying and fixing dovetail splayed end stainless steel hold fast etc				1 Rm (One Running Metre)	
23	25.00 M <sup>2</sup>	UPVC Window Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Window of casement type (open) from the profile the size of outer frame 60mm x 58mm and shutter profile are reinforcement with GI/1mm 125GSM and 100% corrosion free, the profiles are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with over all the edges of frame and shutter the shutter will be provided with Espag multi power point locks and also it operates as handle. The corners and joints should be welded and cleaned. Radiations free pin headed plain or brown colour glass 4mm thick should be provided to the shutter and it should not allow leakage of water even at most ranging storms and should have key lockable action, security protective hinges, strong locking systems and as per size for arresting noise and energy loss. The connecting mechanism between sash and outer frame that enables opening of the window. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The window should be got approved from the Executive Engineer before use on work				1 Sqm (One Square Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
24	2.00 M <sup>2</sup>	UPVC Ventilator Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Louvered Ventilators of from the profile the size of outer frame 60mm x 58mm and shutter profile size of 60 x 78mm both profiles are reinforced with GI/1mm 125GSM and 100% corrosion free, the profile are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with all over the edges of frame and shutter. The corners and joints should be welded and cleaned. Radiations pin headed glass 4mm thick should be provided in the louvers. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The ventilator should be got approved from the Executive Engineer before use on work				1 Sqm (One Square Metre)	
25	15.00 RM	Manufacturing, Supplying and Fixing of Stainless Steel Hand rails for staircase using 50mm dia 304L Grade Stainless Steel pipe of 1.60mm thick at required locations to a height of 900mm from finished floor level welded to 38mm dia Stainless Steel pipe post of 1.00mm thick as vertical at 900mm centre with 2 Nos. of 25mm dia intermediate horizontal stainless steel pipe of 1.60mm thick in between. The vertical pipe has to be welded to the 100 X 100 X 6mm MS base plate encased in the base concrete. The rate is inclusive of the charges for cutting, bending, welding, grinding, polishing, conveyance, electrical charges, etc. complete				1 Rm (One Running Metre)	
26	1920.00 M <sup>2</sup>	Painting two coats with ready mixed Plastic Emulsion paint (weather proof) of approved quality and colour over a priming coat, including thorough scraping, clean removal of dirt and including necessary plaster of paris, putty wherever required etc., complete as per standard specifications.				1 Sqm (One Square Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
27	105.00 M <sup>2</sup>	Painting two coats for New iron work surface using best quality synthetic enamel paint etc., complete complying with standard specification.				1 Sqm (One Square Metre)	
28	35.00 M <sup>2</sup>	Painting two coats for New wood work surface using approved quality and colour synthetic enamel paint etc., complete complying with standard specification.				1 Sqm (One Square Metre)	
29	245.00 M <sup>2</sup>	Flooring with fully Polished 20mm thick Rajasthan Kota stone slabs with machine cut edges of size below 2'0" x 2'0" laid over base layer of cement mortar 1:3 [one cement and three sand] 20mm thick and applying cement slurry & pointed with white cement and colour pigments to the colour of stones and polished neatly etc., complete complying with standard specification.				1 Sqm (One Square Metre)	
30	25.00 M <sup>2</sup>	Paving the floor with pre-polished concrete anti-skid tiles (Required shape and design) of 20mm thick of approved quality and colour laid in Cement Mortar 1:3 (One Cement and Three crushed stone sand) 20mm thick and pointed with white cement mixed with colouring pigment at the rate of 0.40 Kg. / sq.m., curing, etc., complete complying with standard specification and as directed by the departmental officers. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)				1 Sqm (One Square Metre)	
31	85.00 M <sup>2</sup>	Dadoing the walls with Colour Designed glazed tiles of size 300mm x 200mm x 6mm of approved make and quality in cement mortar 1:2 mix [one cement and two sand] over 10mm base layer plastering and pointing with white cement neatly etc., complete as per standard specification.				1 Sqm (One Square Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
32	2.00 M <sup>3</sup>	Plain 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 Metre)	
33	90.00 M <sup>2</sup>	Supplying and laying of Interlocking Paver Block Stone 83mm thk. Over a base layer of sand filling incl. Cost of materials laying and Labour charges etc.,				1 Sqm (One Square Metre)	
34	25.00 RM	Providing and fixing of PVC Rain water downfall pipe of 110mm dia 4kg/sq.cm with necessary teak wood clamps etc., complete complying with standard specification.				1 Rm (One Running Metre)	
35	5.00 No	Supplying and fixing in position of Indian make white glazed earthenware WASH HAND BASIN of size 550x400mm with a pair of C.I. Brackets, 15mm dia C.P. Pillar tap, 32mm G.I. Waste water pipe, 32mm dia C.P. Brass waster coupling, plug with chain, 15mm dia PVC connection, 15mm G.M. wheel valve with ISI mark and necessary G.I. union and G.I. Elbow, including fixing wash hand basin in position with white lead, clamps, teakwood plugs, screws, rubber washer etc., complete without any leakage complying with standard specification.				1 No (One Number)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
36	5.00 No	Supplying and fixing in position White glazed earthenware Oriya type INDIAN WATER CLOSET of size 580mm x 440mm of approved quality with 'P' (or) 'S' trap confirming to IS:2556 - Part XII with sand cushion and forming flooring around the closet using 40mm broken brick jelly in lime concrete 1:2:5 mix (one lime, two sand and five brick jelly) 100mm thick and finishing the top to the required slope and including giving necessary connection to the cast iron soil pipes / PVC pipes by dismantling the brick masonry, reinforced concrete roof / floor slab and making good the disturbed portion to original condition without any leakage etc., complete complying with standard specification.				1 No (One Number)	
37	2.00 No	Supplying and fixing in position White / Colour Glazed Model Floor Mounted European Water Closet of best quality and approved make with 100mm "P" or "S" trap connecting with CI pipe of 100mm dia / PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing 10 litres capacity PVC / 12.5 litres capacity porcelain low level flushing tank with a pair of CI brackets, etc., complete with all fittings, such as, 15mm brass ball valve with polythene float with brass handle, union coupling connected by means of 40mm white PVC flush hand using indian adopter joint including all internal fittings, such as, 15mm brass connections, 15mm GM wheel valve, 15mm brass nipple (2 Nos.), 15mm nylon connection, TW plugs, screws and also giving necessary connection to the PVC pipe and painting the CI brackets with 2 coats of approved paint over one coat of red oxide primer, dismantling the masonry and re-doing the dismantled masonry to original condition, etc., complete complying with standard specifications. (The EWC and flushing tank with all accessories should be got approved by the Executive Engineer before use on works)				1 Rm ( One Running Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
38		Supplying, laying and jointing of PVC pipes of approved quality FINOLEX (or) EQUIVALENT conforming to ISS and with ISI mark of various diameter for building external water supply above ground level including cutting, threading and fixing PVC specials but excluding cost of such specials and fixing to wall with necessary teakwood plugs, PVC clamps and screws, making good the dismantled portions to original condition with necessary brickwork and plastering wherever necessary with necessary scaffolding charges etc., complete as per standard specification. (EXTERNAL WATER SUPPLY - ABOVE GL)					
a	60.00 RM	For 25mm dia ( $\frac{3}{4}$ " ) PVC Pipe 10kg/cm <sup>2</sup>				1 Rm (One Running Metre)	
b	60.00 RM	For 20mm dia ( $\frac{1}{2}$ " ) PVC Pipe 10kg/cm <sup>2</sup>				1 Rm (One Running Metre)	
39	4.00 No	Supplying and fixing in position of PVC / Fibre glass framed 5.5mm thick MIRROR of approved brand and size of 600mm x 450mm fibre glass shelf type with necessary hard board backing etc., complete complying with standard specification.				1 No (One Number)	
40	4.00 No	Supplying and fixing of best approved quality of Brass Chromium Plated TOWEL RAIL 600mm long and 20mm diameter with brackets of same material including cost of teak wood plugs and C.P screws etc., complete complying with standard specification.				1 No (One Number)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
41	5.00 No	Supplying and fixing of best and approved quality of Brass Chromium Plated Soap tray of size 150mm x 100mm including cost of teak wood plugs brass screws etc., complete complying with standard specification.				1 No (One Number)	
42	10.00 No	Supplying and fixing in position of 110mm x 75mm PVC Nahini / Floor Trap with PVC Grating with best stainless steel gratings of approved brand and quality and finished with cement mortar 1:3 [one cement and three sand] including dismantling masonry works wherever found necessary and making good the damaged portions to the original condition and giving connection to the cast iron pipe as directed etc., complete complying with standard specification.				1 No (One Number)	
43	90.00 RM	Supplying, laying and joining the following size of G.I. PIPES of approved quality (B class pipe) 25mm dia and conforming to ISI specification for building internal water supply above ground level laid properly to alignment including fixing the required G.I specials, but excluding cost of such specials, cutting and threading the G.I pipes, but including fixing to wall with necessary clamps and screws, making holes in the wall or drilling holes in roof and making good the dismantled portion with necessary brick work or concrete and plastering wherever necessary with necessary scaffolding charges. The pipe has to be painted with two coats of good quality and best variety of anti-corrosive paint over a priming coat of red-oxide etc., complete as per standard specification.(INTERNAL WATER SUPPLY - ABOVE GL)		87.2		1 Rm ( One Running Metre)	
44	4.00 No	Supplying and fixing in position first quality and approved variety of G.M. GATE VALVE (Heavy Duty) with ISI mark of 25mm dia size including cost of Shellac, thread etc., including labour for cutting and threading of G.I. pipes etc., complete complying with standard specification. (For both internal and external water supply arrangements.)				1 No (One Number)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
45	10.00 No	Supplying and fixing of Brass Chromium Plated Screw Down tap 15 / 12 mm Dia (Heavy Type) of approved make conforming to ISI specification and quality including cost of shellac, thread etc. complying with standard specification including cutting and threading wherever necessary.				1 No (One Number)	
46		Supply and delivery of the following size of G.I Specials with IS specification etc., complete.					
46.01	10.00 No	15mm dia G.I Tee				1 No (One Number)	
46.02	10.00 No	15mm dia G.I Elbow				1 No (One Number)	
46.03	10.00 No	20mm dia G.I Coupling				1 No (One Number)	
46.04	10.00 No	20mm dia G.I Tee				1 No (One Number)	
46.05	10.00 No	20mm dia G.I Elbow				1 No (One Number)	
46.06	10.00 No	20mm dia G.I Bend				1 No (One Number)	
46.07	5.00 No	20mm dia G.I Union				1 No (One Number)	



SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
46.08	10.00 No	25mm dia G.I Coupling				1 No (One Number)	
46.09	10.00 No	25mm dia G.I Tee				1 No (One Number)	
46.1	10.00 No	25mm dia G.I Elbow				1 No (One Number)	
46.11	10.00 No	25mm dia G.I Bend				1 No (One Number)	
46.12	5.00 No	25mm dia G.I Union				1 No (One Number)	
46.13	10.00 No	20mm X 15mm dia G.I Reducer				1 No (One Number)	
46.14	10.00 No	20mm X 15mm dia G.I Reducer Elbow				1 No (One Number)	
46.15	10.00 No	25mm X 20mm dia G.I Reducer				1 No (One Number)	
46.16	10.00 No	20mm X 15mm dia G.I Reducer Tee				1 No (One Number)	
47		Supply and delivery of the following size of PVC Specials with IS specification etc., complete.					

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
47.01	6.00 No	110mm dia PVC Elbow				1 No (One Number)	
47.02	6.00 No	110mm dia PVC Tee				1 No (One Number)	
47.03	6.00 No	110mm dia PVC Door Elbow				1 No (One Number)	
47.04	6.00 No	110mm dia PVC Door Tee				1 No (One Number)	
47.05	6.00 No	110mm dia PVC Door Yee				1 No (One Number)	
47.06	6.00 No	90mm dia PVC Elbow				1 No (One Number)	
47.07	6.00 No	90mm dia PVC Tee				1 No (One Number)	
47.08	6.00 No	90mm dia PVC Door Elbow				1 No (One Number)	
47.09	6.00 No	90mm dia PVC Door Tee				1 No (One Number)	
47.10	6.00 No	90mm dia PVC Door Yee				1 No (One Number)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
48		Supply and delivery of the following size of PVC Pipes with IS specification etc., complete.					
48.01	120.00 RM	110mm dia PVC 6KSC Pipe				1 Rm ( One Running Metre)	
48.02	60.00 RM	90mm dia PVC 6KSC Pipe				1 Rm ( One Running Metre)	
49	40.00 Pt	Wiring with 2x1.5sqmm(22/0.3) PVC insulated unsheathed SC. Cu.Conductor of 1100V grade in suitable PVC rigid pipe on wall and ceiling with PVC accessories with TW switch box with 5A F.T. switch in flush with wall, covered with hylum sheet of 3mm thick with painting of suitable colour for open PVC light / fan point (For electronic regulator) (5 Points Per Coil) SD -22				1 Pt (One Point)	
50	40.00 Pt	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 x 100 x 113 mm TW switch box for 5 A 3 pin non inter locking CS plug with painting of suitable colour with continuous earth wire connection of 14 SWG TC wire for open PVC plug point.SD - 36				1 Pt (One Point)	
51	130.00 Rm	Supply and run of 2 of 1.5 sq.mm. (22 / 0.3) PVC insulated single core unsheathed copper conductor of 1100V grade in suitable PVC rigid pipe on wall and ceiling with continuous earth wire connection 14 SWG TC wire with painting of suitable colour SD 54				1 Rm ( One Running Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
52	30.00 No	Supply and fixing of single box type 4'40W fluorescent fitting complete with copper choke and condensor with TW round blocks on wall or ceiling with flu tube with PVC unsheathed copper leads from terminals to the fittingSD - 88				1 No (One Number)	
53	2.00 No	Earthing as per P.W.D standard with an earth electrode of 2 Mtr. Class 'B' GI pipe of dia not less than 32mm complete with necessary masonry work SD - 234				1 No (One Number)	
54	2.00 No	Supply and fixing of 3 phase 4 wire 4 way ICDB of 32A per way with 100A, TPNMC switch with suitable trunking box MS cable entry boxes and internal connection on suitable angle iron frame work with PWD earthingSD - 175				1 No (One Number)	
55	2.00 No	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 No (One Number)	
56	30.00 Rm	Supply and run of 2 of No.8 SWG GI wire for guarding with cradle with No.8 SWG GI wire at the equal interval of 1.5 Metre. SD - 75				1 Rm ( One Running Metre)	
57	30.00 Rm	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 Rm ( One Running Metre)	
58	5.00 No	Supply and fixing of 300 mm (12") sweep (light duty) AC exhaust fan complete without provision of hole in the wall SD - 115				1 Rm ( One Running Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
59	10.00 Pt	Wiring with 2x4 sqmm(56/0.3) PVC insulated SC unsheathed Cu.Conductor cable of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories, in flush with wall, with 150mm x 100mm x 113mm TW switch box with 3mm thick hylem sheet for 15 A 3 pin non inter locking CS plug with continuous earth wire connection of 14 SWG TC wire , and making good of the concealed portion, with suitable colour for concealed power plug point SD - 40				1 Pt (One Point)	
60	50.00 Rm	Supply and laying of 2 x 10 sq.mm PVC armoured LTUG cable in a trench to be excavated at a depth of 0.75 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good. SD - 198				1 Rm ( One Running Metre)	
61	2.00 No	Supply and laying of 2 x 10 sq.mm PVC LTUG aluminium armoured cable in a trench to be excavated at a depth of 0.75 metre putting 0.15 metre layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good SD 182				1 No (One Number)	
62	1.00 No	Supply and fixng 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 connection complete SD - 129				1 No (One Number)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
63	1.00 No	Supply and fixing of 32 A TPN MC switch on incoming and 3 Nos 32 A DPMC Switch (Front Handle) as outgoing with suitable adoptor box with suitable MS cable entry box trunking boxes and internal connections on internal connections on suitable AI frame work with earth connection SD - 173				1 No (One Number)	
64	1.00 No	Supply and fixing of 3 phase 4 wire 4 way ICDB of 16 A per way with 32 A TPN MC switch with suitable MS cable entry boxes trunking box and internal connections on suitable angle iron frame work with PWD earthing SD - 173				1 No (One Number)	
65	1.00 No	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 No (One Number)	
66	50.00 Rm	Supply and run of 2 of 4sqmm (56/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade in suitable PVC rigid pipe concealed in wall and ceiling with continuous earth wire connection of 14SWG TC wire and making good of the concealed portion with suitable colour SD - 57				1 Rm ( One Running Metre)	
67	30.00 Rm	Supply and laying of 3½ x 50 sq.mm PVC armoured LTUG cable in a trench to be excavated at a depth of 0.75 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good. SD - 206				1 Rm ( One Running Metre)	
68	30.00 Rm	Supply and laying of 4 x 10 sq.mm PVC armoured LTUG cable in a trench to be excavated at a depth of 0.75 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good. SD - 202				1 Rm ( One Running Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
69	5.00 No	Supply and fixing of 1200 mm (48") AC ceiling fan complete with stepped electronic 300W regulator with 1 meter down rod on the existing clamp. SD - 107				1 No (One Number)	
70	10.00 No	Supply and fixing of 25W LED Street Light Fitting with LED etc.,				1 No (One Number)	
71	1.00 No	Brick lining for 300mm thick in furnance roof fibre Li 2800L x 900w x 700H in mining chamber size, Door operation up & down movement manual operated max operated max operating temperature: 700-900 Dec celsius. Etc., complete				1 No (One Number)	
72	1.00 set	LPG Burner set with LPG bank & control panel: supply of 4 Nos, 5 burner with blower and fully auto control system like 0,000 kcal capacity LPG fired ignition,flame sensor and auto cut off incorporated in a separate sequence controller equivalent to imported control system for air and LPG with auto igniting system for air and LPG with auto igniting system and supply of 20+20 cylinder bank with pipeline from LPG cylinder bank up to each burner end by using TATA "c" class grade material pipe with required material etc., complete.				1 No (One Number)	
73	1.00 No	3hp motor 2 no. for use to ID fan & 1 hp motor use for wet scrubber for gas cleaning system:The system should be enhanced with stainless steel cylinder and SS ID fan (3 hp motor x 2 Nos. with ISI standard) to avoid rusting,volume of water should be increased for effective scrubbing,				1 No (One Number)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
74	1.00 No	Guy supported chimney: This is a cylindrical type MS IS -2062 quality,BMM plate chimney with two coated of aluminium heat resistance paint externally,7000mm long bottom cylindrical chimney.It is rested on 16mm type MS IS -2062 quality (100 feet thick base flange and stool flane 16mm thk with 12mm gusset support , cylindrical chimney mounted on founadtion 12nosx25mm dia bolt,nut joints, Top 1 cylindrical shell boiler quality 800 plate x 7000mm long base chimney. It is rested 50mm widht base flange & wind force curtain MS flat set ,eith lightening arrestor 25mmx3mm copper flat earthing,with easy hinges type manual opened manhole door, necessary for pollution control board monitoring sample ports arrangements ladder assembly with safety guard set 70 feet full height , one set of detachable platform, over all size:800mm dia x 400mm dia x21000mm length with necessary all arrangements etc., complete.				1 No (One Number)	
75	1.00 No	Conducting Geophysical survey, quality and quantity test and transportation charges etc, (This includes labour charges in the field, rent of the vehicle for reaching the place, rent of the instrument and excluding charges for the geologist)					
76		Drilling of 150mm dia vertical bores in hard rock formation to any required depth as directed by the departmental officers including labour charges for inserting casing pipe, assembling in the drilled hole, including welding the joints if necessary grouting the casing pipe etc, and including transportation charges for the rig and supporting vehicles from one place to another place.					
a	24.00 M	Up to Casing pipe				1 Rm ( One Running Metre)	



SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
b	176.00 M	Above Casing pipe				1 Rm ( One Running Metre)	
77	24.00 No	Supply and delivery of unplasticised ribbed screen PVC casing pipe of the 140mm dia in 3m length with screwed and socket end and centering guide for every 15m length of pipes as per IS / 12818 / 92 and as amended from time to time to suit the borewell upto 80m depth (C.S) with ISI marking including, loading, unloading , freight, stacking and transit insurance charges etc, complete.				1 No (One Number)	
78	1.00 No	Supply and delivery of wet type submersible pumpsetrequired is 75 LPM discharge and 200m Head with stainless steel shaft, bronze impellers, bronze diffusers, C1 casing etc., complete as per relevent ISI specification in 150mm dia borewell. The pump set should be dynamically balanced and should be supplied with ISI marking. The pumpset should be supplied with 5 meter of 3 core copper cable with cable jointing kit free of cost. As per specifications as per IS rules and confirming to ISI standard should also be supplied.(7.50 HP Motor)				1 No (One Number)	
79	1.00 No	Supply and delivery of 7.50HP Three phase 415Volt DOC Panal board with ISI Specification including all charge etc as per standard specification				1 No (One Number)	
80	225.00 Rm	Supply and delivery of 3 core copper flat 4sqm cable as per IS 694 : 1990 . Including packing, loading, frieght, unloading & Stocking, transit insuraance., third party inspection charges etc.				1 Rm ( One Running Metre)	
81	200.00 Rm	Supply and erection of 2" UPVC Heavey Pressure Coloum repipe to relvent IS specification including cost of pipe etc complete as directed by the departmental officers				1 Rm ( One Running Metre)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
82	1.00 No	Supply and delivery and fixing of HDPE tank Capacity 2000 litres as per IS 12701 / 1996 including loading, unloading, transportation and labour charges for fixing of the GI pipes and specials for pipe connection works including cutting, threading and fixing charges etc., as per standard specification.				1 No (One Number)	
83	1.00 No	Supply and fixing of (TNEB) meter Board suitable for 32A Three Phase service connection with 3 Nos. 32A fuse unit (500V) 32A netrual link and earth link (1" x 1/8" Copper flat) on TW plank of size 600mm x 450mm x 19mm with supporting TW reepers of 1"thick an either side with painting with suitable bold and nuts for fixing the TW plank on wall with earth connection and inter connection with 7/20 PVC suited copper wire from EB meter to fuse unit. (SD - 127)				1 No (One Number)	
84	1.00 No	Supply and fixing of 32A TPN metal clad switch on suitable angle iron frame work with MS cable entry boxes with PWD earthing.(SD - 157)				1 No (One Number)	
85		Supply and laying and Jointing with proper alignment of GI Pipes and Specials with ISI Mark Including cost and conveyance of all materials to site etc complete					
a	10.00 Rm	50mm GI pipe				1 Rm ( One Running Metre)	
b	5.00 No	50mm GI Elbow				1 No (One Number)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
c	5.00 No	50mm GI tee				1 No (One Number)	
d	5.00 No	50mm GI Coupling				1 No (One Number)	
e	5.00 No	50mm GI Union				1 No (One Number)	
f	5.00 No	50mm GI bend				1 No (One Number)	
g	5.00 No	20mm GI Elbow				1 No (One Number)	
h	5.00 No	20mm GI union				1 No (One Number)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
i	5.00 No	20mm GM Valve				1 No (One Number)	
j	5.00 No	20mm GI Bend				1 No (One Number)	
k	5.00 No	20mm GI Coupling				1 No (One Number)	
l	5.00 No	20mm GI Hex nipple				1 No (One Number)	
m	10.00 Rm	20mm GI pipe				1 Rm ( One Running Metre)	
n	5.00 No	20mm GI Tee				1 No (One Number)	

SI No	Qty	Description of work	TNSS No (OR) NBC No	Rates in		Unit in Approved	Amount in figures
				Figures	Words		
86	1.00 No	Erection,testing and commissioning charges for gasifier etc,complete.				1 No (One Number)	

(Schedule Item I to 86 Only)