



BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

PRICE BID

ESTIMATE REF NO : CF/C/12/59

NAME OF WORK : COMPLETION OF CIVIL WORKS IN TYPE B-96 UNITS IN BHEL TOWNSHIP

CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
2.1	01	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed :				
2.1.1	01A	All kinds of soil	5500.000	sqm	37.87	208285.00
2.8	02	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
2.8.1	02A	All kinds of soil.	350.000	cum	130.80	45780.00
2.25	03	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	300.000	cum	83.80	25140.00
2.28	04	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.				
2.28.1	04A	All kinds of soil.	4200.000	sqm	9.35	39270.00
2.35	05	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
2.35.1	05A	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:				

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					RS	P	RS
2.35.1.1	05A1	With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration.	1300.000	Metre	11.80		15340.00
4.1	06	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
4.1.10	06A	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	50.000	cum	2609.90		130495.00
4.12	07	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification. (UNIT : per 50 kg cement)	300.000	per 50 kg	35	35	

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					RS	P	RS	P
						10605.00		
5.9	08	FORM WORK Centering and shuttering including strutting, propping etc. and removal of form for :						
5.9.5	08A	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	250.000	sqm		262.25		65562.50
15.1	09	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer in charge.	30.000	cum		234.20		7026.00
15.23	10	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.						
15.23.1	10A	For thickness of tiles 10 mm to 25 mm	50.000	sqm		20.30		1015.00
15.23.2	10B	For thickness of tiles above 25 mm and up to 40 mm	150.000	sqm		31.25		4687.50
5.22	11	STEEL REINFORCEMENT Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						
5.22.3	11A	Cold twisted bars	12000.000	kg		10.50		126000.00
5.33	12	DESIGN MIX CONCRETE Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less		cum				

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					RS	P	RS	P
		cement used as per design mix is payable/recoverable separately).						
5.33.2	12A	All work above plinth level upto floor level	20.000	cum	3884.00		77680.00	
6.1	13	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:						
6.1.2	13A	Cement mortar 1:6 (1 cement : 6 coarse sand)	120.000	cum	2957.18		354861.00	
6.4	14	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :						
6.4.2	14A	Cement mortar 1:6 (1 cement : 6 coarse sand)	20.000	cum	3516.78		70335.50	
6.13	15	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.						
6.13.2	15A	Cement mortar 1:4 (1 cement :4 coarse sand)	50.000	sqm	415.67		20783.50	
8.2	16	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.						
8.2.2	16A	Granite of any colour and shade						
8.2.2.2	16A1	Area of slab over 0.50 SQM	100.000	sqm	3030.96		303096.00	
8.3	17	Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete						

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					RS	P	RS	P
		as per design approved by Engineer-in-Charge.						
8.3.2	17A	Granite work.	250.000	metre	178.75		44687.50	
8.6	18	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	10.000	sqm	163.10		1631.00	
DATA	19 #	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position: Australian Vengai:	5.000	CU.M.	107326.12		536630.60	
15.12	20	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :						
15.12.1	20A	Of area 3 sq. metres and below	25.000	each	101.70		2542.50	
9.6	21	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B) including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all complete as per directions of Engineer-in-charge and panelling with panels of:						
9.6.1	21A	12mm thick plain grade - 1, medium density flat pressed three layer particle board FPT - I or graded wood particle board FPT & I, IS : 3087 marked, bonded with BWP type synthetic resin adhesive as per IS : 848 :	180.000	sqm	2300.75		414135.00	
DATA	22 #	Supplying and fixing of UPVC windows (single / double leaf shutter)/Fixed louvered Ventilators. The profiles are hollow, multi-chambered and steel reinforced with an outer wall thickness of 2.5mm. The window unit is designed with all corners, transom/mullion joints mitred and fusion welded. The outer frame should hold appropriate EPDM gaskets. The entire window is steel reinforced.The window unit should be designed such	700.000	SQ.M.	5203.00		3642100.00	

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					RS	P	RS	P
		that water drainage does not pass through the reinforcement chamber and the unit is free from sharp edges and blurs, including providing and fixing all accessories confirming to IS standard like stainless steel friction hinges, Handles of powder coated or polyurethane coated with Single Glazing glass of 5mm thick (pin headed). Installation of frames to be carried with suitable Anchor Fastners & Proper Silicone Sealing works to be carried out in exterior & Intereior Crevices. Openable windows.						
9.21	23	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :						
9.21.3	23A	25mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.	384.000	sqm	1266.75		486432.00	
9.40	24	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :						
9.40.1	24A	2nd class teak wood						
9.40.1.1	24AA	50x12 mm	100.000	metre	98.40		9840.00	
9.46	25	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete :						
9.46.2	25A	20 mm dia.	384.000	metre	324.39		124566.72	
9.48	26	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round						

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		bars etc. including priming coat with approved steel primer all complete.				
9.48.2	26A	Fixed to openings /wooden frames with rawl plugs screws etc.	1200.000	kg	98.20	117840.00
9.53	27	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	150.000	each	90.43	13563.75
9.79	28	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc. complete (best make of approved quality) :				
9.79.4	28A	75 mm	192.000	each	176.10	33811.20
9.96	29	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :				
9.96.2	29A	250x16 mm	368.000	each	168.95	62173.60
9.97	30	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
9.97.3	30A	200x10 mm	600.000	each	71.05	42630.00
9.97.5	30B	100x10 mm	384.000	each	46.25	17760.00
9.100	31	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
9.100.2	31A	100 mm	350.000	each	49.55	17342.50
9.100.3	31B	75 mm	384.000	each	41.90	16089.60

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					RS	P	RS	P
LS	32	Nylon buffer for doors & windows	200.000	EACH	14.90		2980.00	
LS	33	Supplying and fixing of hook & eye	528.000	EACH	14.90		7867.20	
11.36	34	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	100.000	sqm	652.84		65283.50	
DATA	35 #	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. Cement and tiles will be issued free of cost at BHEL stores.	600.000	SQM	321.00		192600.00	
11.37	36	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	1600.000	sqm	693.14		1109016.00	

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					RS	P	RS	P
DATA	37 #	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete. Cement and tiles will be issued free of cost at BHEL stores.	300.000	SQM	265.26		79578.00	
DATA	38 #	Providing and laying weathering course on top of roof slab with brick jelly of size 20mm and pure lime (no sand) in the proportion of 32:12.5 to an average thickness of 75mm concrete well beaten with wooden battens so as to secure a minimum slope of 1 in 48 and top finished with pressed tiles of size 25 cm x 25cm x 1.2 cm set in cement mortar 1:3 mixed with crude oil at 10% by weight of cement and pointing with the same oiled mortar etc. complete as per standard specifications. Cement only will be issued free of cost at BHEL stores.	200.000	SQM	1042.89		208578.00	
12.20	39	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.	100.000	sqm	374.86		37486.00	
*12.20	40	Providing and laying two layers of pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:3 (1 cement : 3 coarse sand) mixed with 2% integral water proofing compound laid over a bed of 20 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) and finished neat complete.	300.000	SQM	749.70		224910.00	

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		(Item same as 39 but two layers)				
13.32	41	Pointing on tile brick work with cement mortar 1:3 (1 cement:3 fine sand) :				
13.32.1	41A	Flush/ Ruled/ Struck or weathered pointing	300.000	sqm	93.84	28151.25
12.41	42	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.(i) Single socketed pipes.				
12.41.1	42A	75 mm diameter	300.000	metre	124.90	37470.00
12.41.2	42B	110 mm diameter	400.000	metre	206.90	82760.00
DATA	43	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.(i) Single socketed pipes including clamping to wall. Unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A only will be issued free of cost at BHEL stores.				
DATA	43A #	75mm dia pipe	180.000	R.M.	46.20	8316.00
DATA	43B #	110mm dia pipe	250.000	R.M.	55.86	13965.00
12.42	44	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
12.42.1	44A	Coupler				
12.42.1.1	44A1	75 mm	30.000	each	97.60	2928.00

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					RS	P	RS	P
12.42.1.2	44A2	110 mm	144.000	each	130.25		18756.00	
12.42.5	44B	Bend 87.5°						
12.42.5.1	44B1	75 mm bend	216.000	each	104.55		22582.80	
12.42.5.2	44B2	110 mm bend	144.000	each	156.95		22600.80	
12.42.6	44C	Shoe (Plain)						
12.42.6.1	44C1	75 mm Shoe	96.000	each	163.80		15724.80	
12.42.6.2	44C2	110 mm Shoe	144.000	each	287.05		41335.20	
12.42.3	44D	Single tee with door						
12.42.3.1	44D1	75x75x75 mm	72.000	each	207.95		14972.40	
12.42.3.2	44D2	110x110x110 mm	24.000	each	302.05		7249.20	
DATA	44E	Door bend						
*12.42.3.1	44E1	75mm	144.000	EACH	207.95		29944.80	
*12.43.3.2	44E2	110mm dia	48.000	EACH	302.05		14498.40	
DATA	44F	Cowl						
*12.42.1.1	44F1	75mm	48.000	EACH	97.60		4684.80	
*12.42.1.2	44F2	110mm	48.000	EACH	130.25		6252.00	
12.43	45	Providing and fixing unplasticed - PVC pipe clips of approved design to unplasticed - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.						
12.43.1	45A	75 mm	400.000	each	127.15		50860.00	
12.43.2	45B	110 mm	500.000	each	144.60		72300.00	

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					RS	P	RS	P
13.1	46	CEMENT PLASTER (IN FINE SAND) 12 mm cement plaster of mix :						
13.1.2	46A	1:6 (1 cement: 6 fine sand)	100.000	sqm	91.80		9180.00	
13.2	47	15 mm cement plaster on the rough side of single or half brick wall of mix :						
13.2.1	47A	1:4 (1 cement: 4 fine sand)	200.000	sqm	105.75		21149.00	
13.2.2	47B	1:6 (1 cement: 6 fine sand)	400.000	sqm	105.48		42190.00	
13.3	48	20 mm cement plaster of mix :						
13.3.1	48A	1:4 (1 cement: 4 fine sand)	900.000	sqm	124.37		111930.75	
13.16	49	6 mm cement plaster of mix :						
13.16.1	49A	1:3 (1 cement: 3 fine sand)	2500.000	sqm	79.90		199743.75	
15.56	50	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	2500.000	sqm	15.00		37500.00	
13.28	51	12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement: 4 fine sand) :						
13.28.3	51A	Raised Band	550.000	cm per mtr		2.55		

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					RS	P	RS	P
						1399.89		
13.42	52	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.						
13.42.1	52A	Two or more coats on new work.	22000.000	sqm		37.35		821700.00
13.46	53	Finishing walls with Acrylic Smooth exterior paint of required shade :						
13.46.1	53A	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	13200.000	sqm		67.50		891000.00
13.50	54	Applying priming coat :						
13.50.1	54A	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	1200.000	sqm		25.85		31020.00
13.61	55	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :						
13.61.1	55A	Two or more coats on new work.	480.000	sqm		53.85		25848.00
13.62	56	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:						
13.62.1	56A	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	4800.000	sqm		78.80		378240.00
13.33	57	Pointing on stone work with cement mortar 1:3 (1 cement: 3 fine sand) :						
13.33.1	57A	Flush/ Ruled pointing	720.000	sqm		105.07		75652.20
17.1	58	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever						

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					RS	P	RS	P
		required :						
17.1.1	58A	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	48.000	each	2935.35		140896.80	
DATA	59 #	Providing and fixing of 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required. Cement will be issued free of cost BHEL stores.	48.000	EACH	1030.35		49456.80	
17.7	60	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :						
17.7.2	60A	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	96.000	each	1614.58		154999.20	
17.28	61	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.						
17.28.2	61A	Flexible pipe						
17.28.2.1	61A1	32 mm dia	96.000	each	65.30		6268.80	
17.31	62	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	96.000	each	674.05		64708.80	
17.33	63	Providing and fixing 600x120x5mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	96.000	each	314.25		30168.00	
18.7	64	C.P.V.C. PIPES Providing and fixing Chlorinated						

CONTRACTOR/ TENDERER

ACCEPTING OFFICER



BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

PRICE BID

ESTIMATE REF NO : CF/C/12/59

NAME OF WORK : COMPLETION OF CIVIL WORKS IN TYPE B-96 UNITS IN BHEL TOWNSHIP

CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work & Exposed on wall						
18.7.1	64A	15 mm nominal outer dia .Pipes.	10.000	metre	133.66		1336.60	
18.7.2	64B	20 mm nominal outer dia .Pipes.	50.000	metre	156.81		7840.25	
18.7.3	64C	25 mm nominal outer dia .Pipes.	500.000	metre	197.50		98748.75	
DATA	65	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. CPVC pipes alone will be issued free of cost at BHEL stores.						
DATA	65A #	15mm nominal outer dia pipes	300.000	METER	78.45		23535.00	
DATA	65B #	20mm dia nominal outer dia pipes	150.000	METRE	88.17		13225.50	
DATA	65C #	25mm nominal outer dia pipes.	1400.000	METER	98.05		137270.00	
18.9	66	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of						

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NAME OF WORK : COMPLETION OF CIVIL WORKS IN TYPE B-96 UNITS IN BHEL TOWNSHIP

CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		joints complete as per direction of Engineer in Charge. External work						
18.9.3	66A	25 mm nominal outer dia .Pipes.	720.000	metre	185.15		133308.00	
DATA	67 #	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement trenching, refilling & testing of joints but excluding cost of pipes etc., complete as per direction of Engineer in Charge. 25mm nominal outer dia pipes.	600.000	METRE	84.63		50778.00	
18.15	68	BRASS FITTINGS Providing and fixing brass bib cock of approved quality :						
18.15.1	68A	15 mm nominal bore	480.000	each	205.60		98688.00	
18.16	69	Providing and fixing brass stop cock of approved quality :					.00	
18.16.1	69A	15 mm nominal bore	288.000	each	205.60		59212.80	
18.17	70	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :						
18.17.1	70A	25 mm nominal bore	240.000	each	372.95		89508.00	
18.22	71	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :						
18.22.1	71A	100 mm diameter	96.000	each	58.15		5582.40	
19.1	72	STONE WARE PIPES AND FITTINGS Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :						

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CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
19.1.2	72A	150mm diameter	1200.000	metre	200.48		240573.00	
1.1.1	73	Carriage of materials by mechanical transport including loading, unloading & stacking - excavated earth, debris etc.						
1.1.2(I)	73A	Up to 1 KM lead	1200.000	CUM	66.23		79476.00	
1.1.2(II)	73B	Up to 2 KM lead	100.000	CUM	75.15		7515.00	
1.1.2(III)	73C	Up to 3 KM lead	100.000	CUM	83.99		8399.00	
1.1.2 (IV)	73D	Up to 4 KM lead	50.000	CUM	92.48		4624.00	
19.30	74	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :						
19.30.2	74A	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :						
19.30.2.1	74A1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	192.000	each	3970.05		762249.60	
18.18	75	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :						
18.18.3	75A	25 mm nominal bore	96.000	each	421.65		40478.40	

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CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
18.65	76	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms.	96.000	each	151.10		14505.60	
DATA	77 #	Providing, suplling and fixing in position of ferro cement water tank of singel compartment of 800 litres, capacity of inner dimension 1300mm x 900mm x 800mm in cement mortar 1:2, with 40mm thick bottom finished wall thickness, 32mm wall thickness sides alround, & 25mm thick pre-cast cover slab using 10G x 10G weld mesh & two layers of chickenmesh 28 gauge. Rate to include cost of weldmesh, chickenmesh, fabrication, casting, finishing, carrying and fixing in position, curing etc., complete and cost of 25mm dia G.i. inlet, outlet, scour, overflow pipes & air vent ipes including supplying and fixing of 1 No. of 25mm dia automatic float arrangement of approved make with all necessary fittings etc., labour & incidental etc. complete. All as per drawaings and standard specifications. The rate shall exclude cost of reinforcement & Cement which will be issued free of cost at BHEL Stores. (Ref. Drg. No. BHE-BAP-C-30-127/R1)	96.000	EACH	6958.17		667984.32	
17.73	78	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour.						
17.73.2	78A	600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	192.000	each	415.20		79718.40	
19.4	79	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than						

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CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		4.50 kg and frame to be not less than 2.70 kg as per standard design :				
19.4.2	79A	150 x 100 mm size P type.				
19.4.2.1	79A1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	144.000	each	1128.80	162547.20
9.141	80	Providing and fixing PVC Door Frame of size 50x47mm with a wall thickness of 5 mm (\pm 0.2 mm) made out of single piece extruded PVC profile, with mitred cut joints and joint with 2nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15mm & self driven self tapping screws, the vertical door profiles to be reinforced with 40x20mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.	1075.200	metre	544.50	585446.40
9.142	81	35 mm thick factory made Solid panel PVC Door shutter made out of single piece extruded solid PVC profiles, 5 mm (\pm 0.2mm) thick, having styles & rails (except lock rail) of size 95 mmx 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitred cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x			0.00	.00

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CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		1 mm at each corner. Single piece extruded 5mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.						
9.142.1	81A	Non decorative finish (matt finish).	307.200	sqm	2579.65		792468.48	
9.95	82	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED) Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:						
9.95.3	82A	100x75x4 mm	576.000	each	83.70		48211.20	
9.96	83	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :						
9.96.2	83A	250x16 mm	192.000	each	168.95		32438.40	
9.98	84	Providing and fixing aluminium pull bolt lock anodised ISI marked (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws bolts, nut and washers etc. complete.	384.000	each	62.45		23980.80	
9.100	85	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required						

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CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		colour or shade with necessary screws etc. complete :						
9.100.2	85A	100 mm	384.000	each	49.55		19027.20	
DATA	86 #	Providing balustrade for an overall thickness of 100 mm with 1:2:4 cement concrete using 12 to 20mm gauge granite stone chips for 75mm thick inner core applied on chickenmesh and neatly plastered with cement mortar 1:4, 12mm thick on both faces and hand rails plastered in cement mortar 1:4 with an admixture of red oxide including finishing, polishing, curing etc., complete. Rate to include cost of all materials and labour but excluding fabrication charges for reinforcement steel. Cement & reinforcement steel alone will be issued free of cost at BHEL stores.	30.000	SQM	969.77		29093.10	
DATA	87 #	Providing balustrade for an overall thickness of 100 mm neatly plastered with cement mortar 1:4, 12mm thick on both faces and hand rails plastered in cement mortar 1:4 with an admixture of red oxide including finishing, polishing, curing etc., complete on 1:2:4 cement concrete using 12 to 20mm gauge granite stone chips for 75mm thick inner core applied on chicken mesh. Rate to include cost of all materials and labour but excluding cost of 1:2:4 cement concrete using 12 to 20mm gauge granite stone chips for 75mm thick inner core applied on chicken mesh. Cement alone will be issued free of cost at BHEL stores.	360.000	SQM	752.17		270781.20	
DATA	88 #	Supplying at site of work, carrying and fixing in position of granite kithcen sink of size 0.60 x 0.60 x 0.30 (2' x 2' x 1'). The front face of the sink to be semi polished and edges to be moulded (nosing), Providing one number of 32mm brass waste coupling with waste PVC waste pipe etc. complete. Rate to include cost of all	48.000	EACH	2499.87		119993.76	

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NAME OF WORK : COMPLETION OF CIVIL WORKS IN TYPE B-96 UNITS IN BHEL TOWNSHIP

CPWD 2012 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE		AMOUNT	
					RS	P	RS	P
		materials labour charges and making good all damages, to the wall floor etc. complete. All as per standard specification and instructions of Engineer-in-charge. Cement for fixing will be issued free of cost at BHEL stores.						
LUMPSUM	89	Supplying at site of work and fixing one number of 32mm brass waste coupling with PVC waste pipe etc. complete. Rate to include cost of all materials labour charges for drilling holes to suit 32mm brass waste coupling and making good all damages, to the wall floor etc. to match the existing work etc. complete all as per standard specification and instructions of Engineer-in-charge. Cement for fixing will be issued free of cost at BHEL stores.	48.000	EACH	150.00		7200.00	
DATA	90 #	Supplying and fixing of PVC Nahani single / multi trap 100 x 75mm with crating, all consumables including cost of cutting and making good of the walls and floors as per standard specification and instructions of Engineer - in - charge. Cement will be issued free of cost at BHEL stores.	144.000	EACH	473.62		68201.28	
DATA	91 #	Supplying at site of wrok, carrying and fixing in position of cuddapah slab on both side polished 20/30 mm thick of required size for cup boards.	50.000	SQM	400.65		20032.50	
6.8	92	Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level.	10.000	sqm	318.93		3189.28	

Escalation is not applicable for this Item Sl. No.

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		TOTAL ESTIMATED VALUE BEFORE ESCALATION	17413607.53
		**ESCALATION @ 5.00 %	564074.42
		TOTAL ESTIMATED VALUE (A)	17977681.95
CONTRACTOR TENDER PERCENTAGE @	ABOVE <input type="checkbox"/>		
	BELOW <input type="checkbox"/>		
	AT PAR <input type="checkbox"/>	_____ %	(B) <input type="text"/>
(Percentage in words)	
SUB TOTAL	if above (A) + (B)	(C)	<input type="text"/>
	if below (A) - (B)	(C)	<input type="text"/>
	if at par (A)	(C)	<input type="text"/>
	*SERVICE TAX @ _____ %	(D)	<input type="text"/>
SERVICE HEAD :	_____		
	TOTAL VALUE OF WORK [(C) + (D)]	(E)	<input type="text"/>
(Rupees in words)	

- NOTE :**
- 1) Instead of subtraction (for tender % quoted below), Total value of work is calculated by addition erroneously, L1 will be decided based on amount arrived by subtraction only. In the same way, instead of addition (for tender % quoted above), Total value of work is calculated by subtraction erroneously, L1 will be decided based on amount arrived by addition only. Any calculation error will be corrected at actuals.
 - 2) Tick whichever is applicable. In case of omission in Ticking, figures indicated in the amount column will be considered.
 - 3) Boxes 1,2,3 any one box is to be ticked as per quote. Boxes 5,6,7 any one box is to be filled in with appropriate figures. Box 9 value is equal to Box 5 or 6 or 7 plus box 8.
 - *4) Service Tax at applicable percentage shall be quoted by tenderers. In case Service Tax at composite rate quoted, it will be applicable on BHEL free issue of materials also. In case Service Tax % or Service tax amount is not mentioned, it is presumed that service tax at normal rate is included in the quoted rate.
 - 5) If any discrepancy between figures & words, L1 will decided based on words.
 - 6) Free Issue of Material by BHEL is Rs. **1168297.59** /-
 - **7) Escalation not included for item sl no. marked with # symbol.

PLEASE ENTER THE TENDER PERCENTAGE IN THE SEPERATE ABSTRACT SHEET ATTACHED WITH THIS DOCUMENT

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SPECIAL CONDITION

1 The tenderer shall quote a percentage above or below or at par, the rates shown in the Bill of Quantities based on CPWD DSR 2012. The percentage quoted shall be clearly written both in words and figures. The contractor should accustom with CPWD DSR & Specifications before quoting.

The total value of this contract & Quantities of works indicated in this tender are tentative and is liable to vary according to the needs of the BHEL without entitling the contractors to any compensation. Hence while quoting percentage, the tenderer shall take this contingency into account and offer their quotation.

2 The quoted percentage will apply to the individual items uniformly and few of the items may / may not be operated. The tenderer/ Contractor shall have no claims in this regard.

The above rates does not include PF & ESI remittance .The tenderer shall quote inclusive of PF & ESI contribution to their workers.

3 Items of work other than those mentioned in Bill of Quantities will have to be carried out at the rates to be fixed by this organisation .The same offered percentage will be applicable with reference to CPWD DSR 2012.

4 Safety precautions should be taken while doing the work. You will have to follow all safety requirements to carry out the work inside the factory premises.

5 CONTRACT CONDITIONS ON TAXES & DUTIES

6 a. The Tenderer shall have been Registered under Excise, Sales Tax, VAT, Service Tax regulations if applicable and provide a copy of such registration to BHEL as part of the tender document. In case of fresh registration/amendment thereon, the same shall be carried out before start of the work. PAN no shall be submitted as part the tender document. (copy to be enclosed)

7 b. Service Tax shall be paid by the service provider namely the Tenderer.

8 c. Required Tax Invoice as per the existing provisions to be issued in required parts duly signed by the Competent/Authorized Official of the Contractor to BHEL.

9 d. If due to deficiency in the document submitted, BHEL could not avail CENVAT, VAT Credit, the credit amount will be recovered from the amount due to the Tenderer .

10 e. If payment of statutory dues are not made in accordance with the applicable provisions of the relevant Act within the time specified and Penalty, Interest etc paid/payable by the Contractor, the same shall not be reimbursed by BHEL and the entire implication is only to be born by the Contractor. The Tenderer shall clearly indicate the rate of applicable taxes and duties for the work to be executed.

11 f. The Tenderer shall indicate all exemptions on account of thrushold limits or special notification under any stature. Any modification theron shall also be intimated immediately on changes.

12 g. The quote submitted shall include all taxes and duties of whatsoever in nature but exclusive of Service Tax which shall be quoted separately if applicable. The existing rate shall be quoted clearly. If reduced rates are applicable on

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account of material, labour if any the same shall be indicated clearly. After tender opening addition of any tax & duty is not admissible.

- 13 h. If any composition scheme is to be availed by the Tenderer, the all relevant terms and conditions shall be indicated clearly in the offer. The required compliance under relevant statue shall be carried out.
- 14 i. Any statutory variation will be to the account of BHEL. But if the variation is effective during the delayed/extended period of execution for reasons attributable to the vendor, the same shall be borne by the vendor only.
- 15 J1. Whether Servicable Turnover has crossed the Service Tax Threshold Limit as per Service Tax Rules for the tenderer. YES NO Remarks
- 16 J2.Registered with Service Tax authorities Registered with Service Tax authorities YES NO
- 17 J3.If yes copy of Service Tax Regn. Is enclosed YES NO
- 18 J4.Service Tax Registration No.
- 19 J5.Under which Service Head(s):
- 20 J6.Service Tax @ % is applicable as extra for this tender.
- 21 J7.Whether Input credit for the Materials is availed by the tenderer. YES NO
- 22 J8.Whether Input credit for the service portion is availed by the tenderer. YES NO
- 23 J9.The Toal Value of Work (A+B+C) quoted is in the Tender is Inclusive of Service Tax . (Must be quoted both in figures and words)
- 24 J10.Tenderer has their own PF registration YES NO
- 25 J11.Tenderer has their own ESI registration YES NO
- 26 J12.PAN No. of the Tenderer
- 27 BHEL will provide water at free of cost by identifying the water source (Open well) within the BHEL premises subject to availability and the contractor has to make their own arrangement for pumping the water from well and using the same after ensuring the suitability for the purpose. In case BHEL is not able to provide water as stated above, the contractor has to make their own arrangement for bringing the required quality of water at their own cost from outside the premises for construction and testing purposes.
- 28 The contractor has to make their own arrangement for the required power supply for the execution of work.
- 29 All materials shall confirm to the latest IS / IRC specifications
- 30 Once the work is completed the contractor should remove all the unwanted materials from the site time to time and it should be disposed off as per the instructions of Engineer-in-charge without any further delay.

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- 31 All works shall be carried out as per standard specifications and instructions of Engineer-in-charge.
- 32 All materials, colour, shade, brand, etc. shall be got approved from the Engineer-in-charge before the start of the work and shall confirm to the latest IS/IRC specifications.
- 33 Minimum rates of labour employed in General Engineering and Fabrication Industry as issued by Tamil Nadu Government is applicable from time to time.
- 34 The contractor have to follow all statutory requirements like PF ,ESI etc.,through out the contract period.
- 35 The General conditions of contract in force shall apply to this contract.
- 36 The contractor is required to engage a Diploma holder Engineer through out the contract period.
- 37 Time is essence of the contract. Any delay beyond the delivery date will be subjected to LD.
- 38 "Tenderers are requested to visit the site and verify themselves about the actual site conditions to know about the site facilities, distances and assess the site condition before quoting for the job. No compensation for not acquainting themselves with the actual site conditions will be entertained at the later stage.
- 39 All materials shall confirm to the latest IS/IRC/MORTH specifications.
- 40 Cement and Reinforcement steel will be issued free of cost for theoretical consumption. Excess consumption over and above the theoretical consumption up to 5% will be charged at the recovery rate of Rs 6,040.00 / MT and Rs 54,340.00 / MT respectively. Structural steel will be issued free of cost for theoretical consumption Excess consumption over and above the theoretical consumption up to 5% will be charged at a recovery rate of Rs 51,320.00 / MT. Excess consumption of the free issue materials over and above 5% will be charged with penal recovery which will be at double the rates specified above.
- 41 BHEL will reimburse the Service Tax to the contractor, subject to Service Tax invoice as per law. While quoting, the tenderer should take in to account the implication of Service Tax on the value of free issue materials supplied by BHEL which will works out to Rs. 1403370.24

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

BHARAT HEAVY ELECTRICALS LIMITED,
BOILER AUXILIARIES PLANT, RANIPET - 632406
CIVIL PROJECTS AND SERVICES DEPARTMENT

Name of work: Completion of civil works for Type B-96 units in BHEL township

TENDER Notice No.BAP:CF:46/2012-13

Sl. No.	Description			Values in Rs.ps
1	Estimated value for Completion of civil works for Type B-96 units in BHEL township			17977681.95
2	Contractor's Tender percentage @ Percentage shall be quoted with (+) sign for 'Above' , with (-) sign for 'Below' and 0% for 'At Par'	Above		
		Below		
		At par		
3	Quoted price			
4	Value of Free issue materials as specified in 1 (ii) of special conditions		1403370.24	
5	Value for Calculation of Service Tax	(3)+(4)		
6	For Individuals / Sole proprietaryship firm / partnership firm / HUF / AOP where Reverse charge provisions applicable.			
	Service Tax Rate			
	50% Payable by the bidder			
	50% Payable by BHEL @ 2.472%	2.472%		
6.1	Service Tax applicable for the value in Sl. No. 5 (100%) for above			
	or			
	For Limited companies where Reverse Charge provisions will not apply.			
10	Grand Total including Service Tax to be taken for quote in Sealed bid quote			
	Note:			

Bharat Heavy Electricals Limited

Name of work: Completion of civil works for Type B-96 units in BHEL township

Tender Notice No. BAP:CF:46/2012-13

Service Tax

Approximate value of Free materials supplied by BHEL is Rs 1403370.24.

The Bidder shall not include Service Tax in their quoted rates; but the bidder has to separately indicate the Service Tax amount and workings thereof in the Price bid format.

Bidders have to quote full Service Tax payable in the Price bid format included in the Bid document. Out of Full Service Tax amount indicated by the Bidder, 50% of the same shall be considered for evaluation of offers in the case of Bidders being an Individual, Sole Proprietary ship firm, Hindu Undivided Family or Partnership firm whether registered or not, including Association of Persons. For Other Bidders full Service Tax quoted shall be considered for evaluation.

In such cases of successful Bidder being an Individual, Sole Proprietary ship firm, Hindu Undivided Family or Partnership firm whether registered or not, including Association of Persons, 50% Service Tax amount quoted in the Price Bid format will be considered for reimbursement against valid documentary evidence. For others Service Tax quoted in the Price Bid will be considered for reimbursement against valid documentary evidence.

In such cases of Bidders being an Individual, Sole Proprietary ship firm, Hindu Undivided Family or Partnership firm whether registered or not, including Association of Persons, Service Tax payable by BHEL as receiver of Works contract Service i.e. 50% of the Service Tax payable for Works contracts service on composition basis on quoted price and the value of Free issue materials by BHEL @ 2.472 % presently, shall be added to arrive at the total cost to BHEL for each bidder for the purpose of evaluation of Bids.

Manager / Civil Projects & Services