

**Local Government & Community Development
Department**



**Punjab Cities Program
Detailed Estimate
For
Improvement and Extension of Water
Supply System
in
Bahawalnagar City**

Estimated Project Cost: Rs. 551.70 million

May-2023

Municipal Unit Bahawalnagar

Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision of PCP subprojects -Package-IV

WATER SUPPLY NETWORK-BAHAWALNAGAR

(PRIORITY PROJECT)

General Abstract of Cost

Sr. No	Description	Amount Rs.
	Water Supply Network	
1	Distribution Network	15,137,627
2	Transmission Main	170,254,693
3	Under Ground Water Tank (2x100,000 Gallon)	49,018,708
4	Under Ground Water Tank (1x50,000 Gallon)	18,916,719
5	Tubewell	150,841,861
6	Installation of Valves on Existing Transmission Main	20,849,040
7	Provision of Pipe support at Drain/Canal Crossing	1,699,659
8	Rehabilitation of existing non-functional tubewells	33,528,424
9	External Electrification for Proposed Tubewells and Under Ground Water Tanks	25,778,871
	Total Cost	486,025,602
	Environment and Social Impact Assessment Report Cost (ESIA)	2,496,000
	Escalation @ 6%	29,161,536
	Contingencies @ 2%	9,720,512
	Pujnab Sales Tax @ 5%	24,301,280
	Public Awareness @ 0.25%	
	Horticulture @ 1%	
	GRAND TOTAL AMOUNT	551,704,930

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision of
PCP subprojects -Package-IV**

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
Distribution Network
Engineer's cost estimate**

Sr.N r.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Nr.1: Distribution Network				
		Schedule Items				
1.1	3/44	Excavation of trenches in all kinds of soil, except cutting rock, for water supply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000 Cft	74	8,321.30	613,588
1.2	3/13	Rehandling of earth work. a. Lead upto a single throw of Kassi, phaorah or shovel.	1000 Cft	44	2,772.00	123,149
1.3	7/30	Providing, laying & compacting sand bedding complete as per specifications	100 Cft	257	2,862.00	735,047
1.4	23/43 C	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex/Popular/ IIL or equivalent including the cost of specials, in trenches, as approved & directed by the engineer incharge, complete in all respects.				
		c) PN-10 (SDR-17)				
		vii) 225 mm (9" Dia)	Rft	2,533	1,468.65	3,720,090
		x) 355 mm (14" Dia)	Rft	2,464	3,637.35	8,962,430
1.5	23/52(b)	Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/ bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge				
		(b) Flange Ended Ductile Iron Valve				
		(xii) 8" dia	Each	2	91,890	183,780
		(xiv) 12" dia	Each	2	215,090	430,180
		Sub Total				14,768,264
		Non-Schedule Items				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision of
PCP subprojects -Package-IV**

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
Distribution Network
Engineer's cost estimate**

Sr.N r.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
1.6	R.A	Providing, & construction of valve Chamber complete in all respects as per Drawings & Specification & Instruction of the Engineer Incharge. But Excluding the cost of Valve. Chamber Size 1065mm X 1065mm	Each	4	87,102	348,408
1.7	R.A	Providing, laying and jointing testing and disinfecting, high density polyethylene fitting (tee, cross, bend, elbow, stud ends etc) (PE-100) , PN-10 of conforming to ISO 4427 or DIN 8074 / 8075 or equivalent standards				
		Reducer				
		(i)355 x 225 mm Outer Dia.	Each	1	20,955	20,955
		Sub Total				369,363
		Total for Schedule Items				14,768,264
		Total for Non-Schedule Items				369,363
		Total for Bill Nr.1 (Carried over to Summary of Price)				15,137,627

WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
Bill Nr.1: Distribution Network
TAKING OF SHEETS

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit
1.1 <u>Excavation</u>							
<u>0 to 5 ft depth</u>							
	225mm Dia Pipe	1	2,533	2.75	4.75	33,087.00	
	355mm Dia Pipe	1	2,464	3.18	5.18	40,650.00	
						Total	<u>73,737</u> Cft
1.2 <u>Rehandling of Earth work</u>							
<u>0 to 12 ft depth</u>							
	225mm Dia Pipe	1	2,533.00	2.75	3.00	20,897.00	
	355mm Dia Pipe	1	2,464.00	3.18	3.00	23,529.00	
						Total	<u>44,426</u> Cft
1.3 <u>Sand Bed</u>							
	225mm Dia Pipe	1	2,533.0	4.40		11,145.00	
	355mm Dia Pipe	1	2,464.0	5.90		14,538.00	
						Total	<u>25,683.00</u> Cft
1.4 <u>HDPE Pipe PN 10</u>							
	225mm Dia Pipe	1	2,533.00			2,533.00	
	355mm Dia Pipe	1	2,464.00			2,464.00	
						Total	<u>4,997.00</u> Rft

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision of
PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
Transmission Main
Engineer's cost estimate**

Sr.N r.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Nr.2: Transmission Main				
		Schedule Items				
2.1	3/44	Excavation of trenches in all kinds of soil, except cutting rock, for water supply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000 Cft	510	8,321.30	4,246,501
2.2	4/45	Dismantling and removing road metalling.	100 Cft	439	2,217.60	973,704
2.3	3/13	Rehandling of earth work. a. Lead upto a single throw of Kassi, phaorah or shovel.	1000 Cft	279	2,772.00	773,726
2.4	7/30	Providing, laying & compacting sand bedding complete as per specifications	100 Cft	1,838	2,862.00	5,259,097
2.5	23/43(C)	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working pressure pipe, Beta/ Dadex/Popular/ IIL or equivalent including the cost of specials, in trenches, as approved & directed by the engineer incharge, complete in all respects.				
		c) PN-10 (SDR-17)				
		ix) 315 mm (12" Dia)	Rft	780	2,864.05	2,233,959
		x) 355 mm (14" Dia)	Rft	3,899	3,637.35	14,182,028
		xi) 400 mm (16" Dia)	Rft	1,043	4,590.60	4,787,996
		xii) 450 mm (18" Dia)	Rft	21,599	5,814.90	125,596,025
2.6	23/52(b)	Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge (b) Flange Ended Ductile Iron Valve				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision of
PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
Transmission Main
Engineer's cost estimate**

Sr.N r.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		(xiii) 10" dia	Each	1	147,890	147,890
		(xiv) 12" dia	Each	2	215,090	430,180
		(xvi)16" dia	Each	1	394,290	394,290
2.7	21/12	Restoration of metalled road, on laid service line, including compaction:- a) Carpetted road, with 2" (50 mm) carpet and 10" (250 mm) depth of stone metal for sub-base and base.	100 Sft	375	15,855.85	5,950,447
		Sub Total				164,975,843
		Non-Schedule Items				
2.8	R.A	Providing and fixing DI Double Orifice air valve (PN-16) In accordance with BSEN:1074 complete in all respects as per Drawings & Specification & Instruction of the Engineer In charge (of Imported Make).				
		Design: EN 1074 – 4 Face to Face:EN 558 Table 2 Basic Series 48 FLANGES: EN 1092 Pressure rating: PN16 Testing EN 1074-1,2&4 / EN12266 1.1×PN (in bar), Body: 1.5×PN (in bar).				
		Part Name: Material Shell: DI Body: DI Threaded outlet : Brass Float: PC/SS Base: Brass Rolling seal: EPDM Rubber Lever: DI O Ring: NBR Rubber				
		Inlet Size 2" Dia	Each	6	41,751.00	250,506
2.9	R.A	Providing and fixing Non Return valve of specification given below				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision of
PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
Transmission Main
Engineer's cost estimate**

Sr.N r.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Design : EN 1074 – 3 Face to Face : EN 558 Table 2 Basic Series 48 FLANGES : EN 1092-2, ISO 7005-2 Pressure rating: PN16 Testing: EN 1074-3/ EN12266 1.1×PN (in bar), Body: 1.5×PN (in bar). External Lever : To be provided Part Name: Material				
		Body: DI Seat Ring : Alu-bronze DISC : DI Seat Ring: Alu-bronze Hinge Arm: DI Bonnet Gasket: Rubber Lever: DI Guide Bush: Rubber Bolts, nuts, Air Plug: SS shaft, spacer: SS				
		i) 450 mm i/d	Each	5	647,903.00	3,239,515
2.10	R.A	Providing, & construction of valve Chamber complete in all respects as per Drawings & Specification & Instruction of the EngineerIncharge. But Excluding the cost of Valve.				
		Chamber Size 1065mm X 1065mm	Each	15	87,102	1,306,530
2.11	R.A	Providing, laying and jointing testing and diforming, high density polyethylene fitting (tee, cross, bend, elbow, stud ends etc) (PE-100) ,PN-12.5 of conforming to ISO 4427 or DIN 8074 / 8075 or equivalent standards				
		Reducer				
		315x 355 mm Outer Dia.	Each	2	24,315	48,630
		355 x 400 mm Outer Dia.	Each	2	29,841	59,682
		400 x 450 mm Outer Dia.	Each	1	39,127	39,127

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision of
PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
Transmission Main
Engineer's cost estimate**

Sr.N r.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
2.12	R.A	Providing and fixing Wash out Pipe including Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge				
		6" i/d (150 mm)	Each	6.00	97,561	585,366
		Sub Total				5,278,850
		Total for Schedule Items				164,975,843
		Total for Non-Schedule Items				5,278,850
		Total for Bill Nr.2 (Carried over to Summary of Price)				170,254,693

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Bill Nr.2: Transmission Main

TAKING OF SHEETS

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit
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1.2.1 Excavation

0 to 4 ft depth

315mm Dia Pipe	1	780	3.00	5.00	11,700.00	
355mm Dia Pipe	1	3,899	3.18	5.18	64,324.00	
400mm Dia Pipe	1	1,043	3.33	5.33	18,512.00	
450mm Dia Pipe	1	21,599	3.50	5.50	415,781.00	
Total					<u>510,317</u>	Cft

1.2.2 Dismantling of mettaled Road

315mm Dia Pipe	1	780	3.00	1.17	2,738.00	
355mm Dia Pipe	1	3,899	3.18	1.17	14,520.00	
400mm Dia Pipe	1	1,043	3.33	1.17	4,064.00	
450mm Dia Pipe	1	21,599	3.50	1.17	88,448.00	
Total					<u>109,770</u>	Cft
Total Dismantling Expacted @ 40%					<u>439.08</u>	100 C

1.2.3 Rehandling of Earth work

0 to 12 ft depth

315mm Dia Pipe	1	780.00	3.00	2.00	4,680.00	
355mm Dia Pipe	1	3,899.00	3.18	3.00	37,232.00	
400mm Dia Pipe	1	1,043.00	3.33	3.00	10,420.00	
450mm Dia Pipe	1	21,599.00	3.50	3.00	226,790.00	
Total					<u>279,122</u>	Cft

1.2.4 Sand Bed

315mm Dia Pipe	1	780.0	4.90		3,822.00	
355mm Dia Pipe	1	3,899.0	5.90		23,004.00	
400mm Dia Pipe	1	1,043.0	5.50		5,737.00	
450mm Dia Pipe	1	21,599.0	7.00		151,193.00	
Total					<u>183,756.00</u>	Cft

1.2.5 HDPE Pipe PN 10

315mm Dia Pipe	1	780.00			780.00	
355mm Dia Pipe	1	3,899.00			3,899.00	
400mm Dia Pipe	1	1,043.00			1,043.00	

450mm Dia Pipe	1	21,599.00		21,599.00	
			Total	<u>26,541.00</u>	Rft

1.2.6 **Restoration of metalled road**

315mm Dia Pipe	1	780	3.00	2,340.00	
355mm Dia Pipe	1	3,899	3.18	12,411.00	
400mm Dia Pipe	1	1,043	3.33	3,473.00	
450mm Dia Pipe	1	21,599	3.50	75,597.00	
			Total	<u>93,821</u>	Sft
Total Dismantling Expacted @ 40%				<u>375.28</u>	100 %

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV**

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Under Ground Water Tank (2x100,000 Gallon)

Engineer's cost estimate

Sr. Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Nr.3: Under Ground Water Tank				
		Schedule Items				
		Earthwork/Excavation				
3.1	3-7(i)	Earthwork excavation in open cutting upto 5'-0" (1.5 m)depth for storm water channels, drains, sullage drains inopen areas, roads, streets, lanes, including under pinning ofwalls and shoring to protect existing works, shuttering andtimbering the trenches, dressed to designed level anddimensions, trimming, removal of surface water fromtrenches, back filling and surplus excavated materialdisposed of and dressed within 50 ft. (15 m) lead:-				
		b) in ordinary soil.	1000 Cft	8.98	9,852.50	88,456
3.2	3-8(i)	Earthwork excavation in open cutting 5.01 ft. (1.5 m) to10.0 ft. (3.0 mm) depth for storm water channels, drains,sullage drains in open areas, roads, streets, lanes, includingunder pinning of walls and shoring to protect existing works,shuttering and timbering the trenches, dressed to designedlevel and dimensions, trimming, removal of surface waterfrom trenches, back filling and surplus excavated materialdisposed of and dressed within 100 ft. (30 m) lead:-				
		b) in ordinary soil.	1000 Cft	17.94	10,785.70	193,452
		Cement Concrete Class - B				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV**

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Under Ground Water Tank (2x100,000 Gallon)

Engineer's cost estimate

Sr. Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
3.3	6-6(a)(i)	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- (a) (i) Reinforced cement concrete in roof slab, beams, columns, lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
	+1-1	(2) Type B (nominal mix 1: 1½: 3) (260 Km Lead on crush)	Cft	1,151.58	705.30	812,206
	6-6(a)(ii)	(a)(ii) Reinforced cement concrete in retaining/ Shear walls laid in situ or precast laid in position, or prestressed members cast in situ (Form work on both sides), complete in all respects:				
	+1-1	(b) Type B (nominal mix 1:1-1/2:3) (260 Km Lead on crush)				
		(ii) More Than 9" thick (Avg)	Cft	3,186.62	720.85	2,297,077
	6-6(a)(iii)	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
	+1-1	(b) Type B (nominal mix 1:1-1/2:3) (260 Km Lead on crush)	Cft	2,681.09	595.95	1,597,794

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV**

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Under Ground Water Tank (2x100,000 Gallon)

Engineer's cost estimate

Sr. Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
3.4	6-12	Providing and fabrication of mild steel reinforcement for cementconcrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labourcharges for binding of steel reinforcement (also includesremoval of rust from bars), Deformed bars (Grade 60)	100 Kg	254.78	31,952.80	8,141,046
3.5	6-5(i) +1-1	Cement concrete plain including placing, compacting, finishing of and curing complete (including washing and screening stone aggregate): (260 Km Lead on crush)				
		Under Floor & Foundation (i) Ratio 1: 4: 8	100 Cft	5.93	37,385.26	221,513
3.6	21-13	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	36.00	611.55	22,016
3.7	21-16	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" l/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Per Set	3.00	16,026.15	48,078
3.8	9-46	Providing and applying torch-on plain water proofing bitumenous membrane of specified thickness (made of Roof-Grip / Euro Bit) duly lapped /connected by heating with Torch over ps-6 primer i/c preparation /smoothen the surface complete in all respect as approved and directed by the Engineer Incharge ii) 4 mm thick	Sft	2,622.38	119.75	314,029

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV**

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Under Ground Water Tank (2x100,000 Gallon)

Engineer's cost estimate

Sr. Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
3.9	23-20(f)	Providing, laying, cutting, jointing, testing and disinfecting cast iron				
		pipe line (BS-2035) in trenches, with spigot and socket caulked lead				
		joints, including cost of materials, such as lead, yarn, etc.				
		complete in all respects:-				
		f) 10" (250 mm) i/d	Rft	30	5,643.00	169,290
3.10	6-31A (ii)	Providing and Embedding 250mm wide PVC Water Stopper in				
		expansion joint of RCC Structures (Retaining Walls, Water Tanks &				
		slabs) complete in all respects.(ii) 10" wide 10mm thick	Rft	141.75	766.20	108,609
		Sub-Total				14,013,566
		Non-Schedule Items				
3.11	R.A	Providing and Fixing of, Cast Iron Cowled Vent 4" dia on tank complete in all respect as approval and entire satisfaction of the Engineer.	Each	5.00	295.00	1,475
3.12	R.A	Construction of Pump Room including Pumping Machinery				
		Bill Number: 4.1	Job	1	10,494,313	10,494,313
		Sub Total				10,495,788
		Total for Schedule Items				14,013,566
		Total for Non-Schedule Items				10,495,788
		Total for Bill Nr.3 (Cost of 1 NO's U.G.W.T)				24,509,354
		Total for Bill Nr.3 (Cost of TOTAL 2 NO's U.G.W.Ts) Carried over to Summary of Price				49,018,708

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TAKING OF SHEETS**

Bill Nr.3: Under Ground Water Tank (100,000 Gallon)

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit
<u>Excavation</u>							
1.3.1	<u>0 to 5 ft depth</u>						
	Tank	1	1,795.50	1.00	5.00	8,978	
					Total	<u>8,978</u>	Cft
1.3.2	<u>5.1 to 10 ft depth</u>						
	Tank	1	1,795.50	1.00	9.33	16,752	
	Sump	1	394.80	1.00	3.00	1,184	
					Total	<u>17,936</u>	Cft
1.3.3	<u>R.C.C Super Structure (1:1.5:3)</u>						
	Wall						
	Tank	1	135.19	1.50	14.67	2,975	
	Sump area wall	1	47.07	1.50	3.00	212	
					Total A	<u>3,187</u>	Cft
	Top Slab						
	Tank	1	1,524.60	1.00	0.67	1,021	
					Total B	<u>1,021</u>	Cft
	Beams						
	Tank 01						
	B1	1	82.95	1.00	1.25	104	
	B2	-	79.28	1.00	1.25	-	
					Total C	<u>104</u>	Cft
	column						
	C1	1	1.80	1.00	14.67	26	
					Total D	<u>26</u>	Cft
					Total A to D	<u>4,338</u>	Cft
	<u>R.C.C Raft (1:1.5:3)</u>						
	Base						
	Tank	1	1,627.50	1.00	1.50	2,441	

	Tapper area	1	37.62	4.25	1.50	240	
							Total <u>2,681.09</u> Cft
1.3.4	<u>Reinforcement Grade 60</u>						
	Wall	3,187	@	8.00	ib/cft	11,567	Kg
	Top Slab	1,021	@	8.00	ib/cft	3,708	Kg
	Beams	104	@	8.00	ib/cft	376	Kg
	column	26	@	8.00	ib/cft	96	Kg
	Base	2,681	@	8.00	ib/cft	9,732	Kg
							Total <u>25,478</u> Kg
1.3.5	<u>Concrete Work in Foundation P.C.C (1:4:8)</u>						
	Tank	1	1,795.50	1.00	0.33	593	
							Total <u>592.52</u> Cft
1.3.6	<u>M.I Steps</u>						
	Tank						
	External Wall	3	12.00			36	
							Total <u>36.00</u> Each
1.3.7	<u>Manhole</u>						
	Cover						
	T-01	1	3.00			3	
							Total <u>3.00</u> Each
1.3.8	<u>4mm Mebrane</u>						
	Tank						
	Tank	1	141.75		18.50	2,622	
	Sump area wall						
							Total <u>2,622.38</u> Sft
1.3.9	<u>Water Stoper</u>						
	Tank						
	Tank	1	141.75			142	
							Total <u>141.75</u> Rft

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
Supervision of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Under Ground Water Tank (1x50,000 Gallon)

Engineer's cost estimate

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Nr.4: Under Ground Water Tank				
		Schedule Items				
		Earthwork/Excavation				
4.1	3-7(i)	Earthwork excavation in open cutting upto 5'-0" (1.5 m)				
		depth for storm water channels, drains, sullage drains in				
		open areas, roads, streets, lanes, including under pinning of				
		walls and shoring to protect existing works, shuttering and				
		timbering the trenches, dressed to designed level and				
		dimensions, trimming, removal of surface water from				
		trenches, back filling and surplus excavated material				
		disposed of and dressed within 50 ft. (15 m) lead:-				
		b) in ordinary soil.	000 C	4.96	9,852.50	48,829
4.2	3-8(i)	Earthwork excavation in open cutting 5.01 ft. (1.5 m) to				
		10.0 ft. (3.0 mm) depth for storm water channels, drains,				
		sullage drains in open areas, roads, streets, lanes, including				
		under pinning of walls and shoring to protect existing works,				
		shuttering and timbering the trenches, dressed to designed				
		level and dimensions, trimming, removal of surface water				
		from trenches, back filling and surplus excavated material				
		disposed of and dressed within 100 ft. (30 m) lead:-				
		b) in ordinary soil.	000 C	10.03	10,785.70	108,202
		Cement Concrete Class - B				
4.3		Providing and laying reinforced cement concrete (including				

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WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
Under Ground Water Tank (1x50,000 Gallon)**

Engineer's cost estimate

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		prestressed concrete), using coarse sand and screened graded and				
		washed aggregate, in required shape and design, including forms,				
		moulds, shuttering, lifting, compacting, curing, rendering and				
		finishing exposed surface, complete (but excluding the cost of steel				
		reinforcement, its fabrication and placing in position, etc.):-				
		(a) (i) Reinforced cement concrete in roof slab, beams,				
		columns lintels, girders and other structural members laid in				
		situ or precast laid in position, or prestressed members cast				
	6-6(a)(i)	in situ, complete in all respects:-				
	+1-1	(2) Type B (nominal mix 1: 1½: 3) (260 Km Lead on crush)	Cft	629.74	705.30	444,153
	6-6(a)(ii)	(a)(ii) Reinforced cement concrete in retaining/ Shear walls laid in situ				
	+1-1	or precast laid in position, or prestressed members cast in situ				
		(Form work on both sides) , complete in all respects:				
		(b) Type B (nominal mix 1:1-1/2:3) (260 Km Lead on crush)				
		(ii) More Than 9" thick (Avg)	Cft	1,875.71	720.85	1,352,103
	6-9(c)	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation,				
	+1-1	base slab of column and retaining walls; etc and footing beams, other				
		structural members other than those mentioned in				
		6(a) (i)&(ii) above not requiring form work (i.e. horizontal				
		shuttering) complete in all respects:-				
		(b) Type B (nominal mix 1:1-1/2:3) (260 Km Lead on crush)	Cft	1,480.89	595.95	882,539

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
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WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Under Ground Water Tank (1x50,000 Gallon)

Engineer's cost estimate

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
4.4	6-12	Providing and fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars), Deformed bars (Grade 60)	100 Kg	144.69	31,952.80	4,623,398
4.5	6-5(i)	Cement concrete plain including placing, compacting, finishing of and curing complete (including washing and screening stone aggregate): (260 Km Lead on crush)				
	+1-1	Under Floor & Foundation (i) Ratio 1: 4: 8	100 Cf	3.27	37,385.26	122,286
4.6	21-13	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	36.00	611.55	22,016
4.7	21-16	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Per Se	3.00	16,026.15	48,078
4.8	9-46	Providing and applying torch-on plain water proofing bitumenous membrane of specified thickness (made of Roof-Grip / Euro Bit) duly lapped /connected by heating with Torch over ps-6 primer i/c preparation /smoothen the surface complete in all respect as approved and directed by the Engineer Incharge				

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WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Under Ground Water Tank (1x50,000 Gallon)

Engineer's cost estimate

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		ii) 4 mm thick	Sft	1,891.51	119.75	226,508
4.9	23-20(g)	Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035) in trenches, with spigot and socket caulked lead joints, including cost of materials, such as lead, yarn, etc. complete in all respects:-				
		f) 10" (250 mm) i/d	Rft	30	5,643.00	169,290
4.10	23/52(b)	Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/ bolt and gasket where required complete in all respect as approved and directed by the Engineer Incharge				
		(b) Flange Ended Ductile Iron Valve (xiii) 10" dia	Each	2	147,890	295,780
4.11	6-31A (ii)	Providing and Embedding 250mm wide PVC Water Stopper in expansion joint of RCC Structures (Retaining Walls, Water Tanks & slabs) complete in all respects.(ii) 10" wide 10mm thick	Rft	102.24	766.20	78,339
		Sub-Total				8,421,521
		Non-Schedule Items				
4.12	R.A	Providing and Fixing of, Cast Iron Cowled Vent 4" dia on tank complete in all respect as approval and entire satisfaction of the Engineer.	Each	3.00	295.00	885
4.13	R.A	Construction of Pump Room including Pumping Machinery				

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WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Under Ground Water Tank (1x50,000 Gallon)

Engineer's cost estimate

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Number: 4.1	Job	1	10,494,313	10,494,313
		Sub Total				10,495,198
		Total for Schedule Items				8,421,521
		Total for Non-Schedule Items				10,495,198
		Total for Bill Nr.4 (Carried over to Summary of Price)				18,916,719

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TAKING OF SHEETS
Bill Nr.4: Under Ground Water Tank (50,000 Gallon)**

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit
<u>Excavation</u>							
3.2.1	<u>0 to 5 ft depth</u>						
	Tank	1	991.20	1.00	5.00	4,956	
					Total	<u>4,956</u>	Cft
3.2.2	<u>5.1 to 10 ft depth</u>						
	Tank	1	991.20	1.00	9.33	9,248	
	Sump	1	261.45	1.00	3.00	784	
					Total	<u>10,032</u>	Cft
3.2.3	<u>R.C.C Super Structure (1:1.5:3)</u>						
	Wall						
	Tank	1	97.65	1.25	14.67	1,791	
	Sump area wall	1	28.35	1.00	3.00	85	
					Total A	<u>1,876</u>	Cft
	Top Slab						
	Tank	1	792.75	1.00	0.67	531	
					Total B	<u>531</u>	Cft
	Beams						
	Tank 01						
	B1	1	57.75	1.00	1.25	72	
	B2	-	79.28	1.00	1.25	-	
					Total C	<u>72</u>	Cft
	column						
	C1	1	1.80	1.00	14.67	26	
					Total D	<u>26</u>	Cft
					Total A to D	<u>2,505</u>	Cft
	<u>R.C.C Raft (1:1.5:3)</u>						
	Base						

	Tank	1	857.85	1.00	1.50	1,287	
	Tapper area	1	30.45	4.25	1.50	194	
					Total	<u>1,480.89</u>	Cft
3.2.4	<u>Reinforcement Grade 60</u>						
	Wall	1,876	@	8.00	ib/cft	6,808	Kg
	Top Slab	531	@	8.00	ib/cft	1,928	Kg
	Beams	72	@	8.00	ib/cft	262	Kg
	column	26	@	8.00	ib/cft	96	Kg
	Base	1,481	@	8.00	ib/cft	5,375	Kg
					Total	<u>14,469</u>	Kg
3.2.5	<u>Concrete Work in Foundation P.C.C (1:4:8)</u>						
	Tank	1	991.20	1.00	0.33	327	
					Total	<u>327.10</u>	Cft
3.2.6	<u>M.I Steps</u>						
	Tank						
	External Wall	3	12.00			36	
					Total	<u>36.00</u>	Each
3.2.7	<u>Manhole</u>						
	Cover						
	T-01	1	3.00			3	
					Total	<u>3.00</u>	Each
3.2.8	<u>4mm Mebrane</u>						
	Tank						
	Tank	1	102.24		18.50	1,892	
	Sump area wall						
					Total	<u>1,891.51</u>	Sft
3.2.9	<u>Water Stoper</u>						
	Tank						
	Tank	1	102.24			102	
					Total	<u>102.24</u>	Rft

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**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**PUMP ROOM
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Nr. 4.1.: Pump Room for Underground Water Tank				
		Schedule Items				
		Civil Works				
4.1.1	6-5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4 (260 Km Lead)	100 Cft	0.30	45,747	13,724
4.1.2	7-5(i)	Pacca brick work in ground floor:- i) Cement, sand mortar:-				
		Ratio 1:5	100 Cft	5.45	31,491	171,626
		Cement Concrete				
4.1.3		Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
	6-6(a)(i)	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
	+1-1	(3) Type C (nominal mix 1: 2: 4) (260 Km Lead on crush)	Cft	156.70	654	102,477
4.1.4	6-12	Providing and fabrication of mild steel reinforcement for cementconcrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars), Deformed bars (Grade 60)	100 Kg	5.69	31,953	181,742
4.1.5	11-9(c)	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick	100 Sft	8.37	4,644	38,890

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**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**PUMP ROOM
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
4.1.6	11-9(b)	Cement plaster 1:4 upto 20' (6.00 m) height:-				
		b) ½" (13 mm) thick	100 Sft	5.97	3,460	20,662
4.1.7	11-10(b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height.				
		b) 1:3	100 Sft	1.81	3,960	7,178
4.1.8	13-31	Preparing surface and painting with emulsion paint:-				
		a) first coat	100 Sft	5.97	1,279	7,639
		b) 2nd and each subsequent coat	100 Sft	5.97	1,983	11,843
4.1.9	11-40	Providing & applying 1.5mm thick fine textured high quality Sandtex Coating formed of special Acrylic base protective decorative coating of approved colour & shade with trowel having top class finish over well cleaned plastered surface i/c preparation and cleaning the surface, complete in all respect as approved and directed by the Engineer Incharge.	Sft	837.38	60.85	50,954
4.1.10	25-52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	Sft	16.00	1,337	21,385
4.1.11	25-53	Providing and fixing Aluminum Fly screen comprising of Fiber/ Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer/ powder coated of size 1-1/2"x1/2" and				

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**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

PUMP ROOM

Engineer's cost estimate

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		1.6mm thick with rubber gasket i/c cost of Hardwares as approved				
		and directed by the engineer incharge. complete in all respect.	Sft	16.00	501	8,013
4.1.12	25-58	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill				
		including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of				
		approved design, including painting three coats, complete in all				
		respects.	Sft	16.00	530	8,473
4.1.13	10-22(b)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13mm) mosaic				
		topping of one part of cement and marble powder in the ratio of 3:1				
		and two parts of marble chips, laid over 1"(25 mm) thick floor of				
		1:2:4 cement concrete including rubbing and polishing complete with				
		finishing :-				
		(b) using white cement	100 Sft	1.76	23,730	41,859
4.1.14	10-37(b)	Mosaic dado or skirting with one part of cement and marble powder				
		in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm)				
		thick cement plaster 1:3, including rubbing and polishing, complete				
		with finishing:				
		(b) using white cement :				
		ii) ½"(13 mm) thick	100 Sft	0.18	24,331	4,385
4.1.15	9-5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"				
		(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted				
		with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs.				
		per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100 Sft	1.76	11,278	19,894
4.1.16	23/52(b)	Providing and fixing heavy duty Gate valve of specified diameter				
		and material for pressure rating PN-16 mde of Crane (USA), Hatersly				

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**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**PUMP ROOM
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		(UK) or Scon (Pakistan) i/c the cost of all accessories flanges, nut/ bolt and gasket where required complete in all respect as approved and directed by the Engineer Incharge				
		(b) Flange Ended Ductile Iron Valve (xiii) 10" dia	Each	2	147,890	295,780
		Electrical Works				
4.1.17	24-3	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. iii) 25 mm i/d(1")	Rft	200	102	20,320
4.1.18	24-6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:- iii) 80 mm i/d(3")	Rft	130	229	29,738
4.1.19	24-11	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaid PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only):- i) 1.5 mm ² (3/0.029") For Point wiring ii) 2.5 mm ² (3/0.036") For Circuit wiring iv) 4mm ² (7/0.036") For Power Socket wiring	Rft	100	27	2,710
			Rft	50	23	1,128
			Rft	20	57	1,147
4.1.20	24-102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
	a	Plastic Body				
	ii	12" dia	Each	1	3,381	3,381

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**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**PUMP ROOM
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
4.1.21	24-12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in pre-laid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc				
	vii	50mm sq Cu/PVC/PVC 600/1000 V CPC for ASDS to Pump	Rft	30	545	16,347
4.1.22	24-13	Supply and erection of copper conductor cables for service				
		connection, in pre-laid pipe/G.I. wire/trenches, etc. (rate for cables only)				
	c	PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-				
	xii	95 mm sq (37/0.072")	Rft	200	4,018	803,590
4.1.23	24-103 a	P/F PVC double layer Switch kit Face plate with specified switch				
		holes i/c the cost of switches / sockets / dimmer made of Hi-Life /				
		Bush / Schenider, screws complete as approved and directed by the Engineer Incharge				
		ii) 2 Gang switch	Each	2	689	1,378
		iii) 3 Gang switch	Each	1	805	805
		iv) Light Plug Sokcet	Each	2	662	1,325
4.1.24	23-62	Providing and fixing Chain Pulley Block of 5 ton capacity with 5 meter length of chain, as per required specifications complete in all respect and as approved by the Engineer Incharge.	Each	1	32,586	32,586
		<u>MS GIRDER & MS COVER</u>				
4.1.25	25-9	Small iron work, such as gusset plates, knees, bends, stirrups, straps, rings, etc. including cutting, drilling, riveting, handling, assembling and fixing; but excluding erection in position.	100 Kg	1.30	42,890	55,757
4.1.26	25-11	Erection and fitting in position iron trusses, staging of water tanks, etc.	100 Kg	1.30	1,415	1,839

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**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**PUMP ROOM
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
4.1.27	103- a- viii	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge Three Pin Power Plug 15-32 Amp	Each	2	818	1,637
		Sub-Total				1,980,210
		Non-Schedule Items				
		Civil Works				
4.1.28	R.A	Providing and Fixing steel door with 16 SWG sheeting including angle iron chowkhat frame 1-1/2"x1-1/2"x3/16" and leaf frame 1"x1"x3/16", M.S Flat 3/4"x 3/16", complete with locking arrangement Welding and fixing in position as per drawing and as approved by the Engineer/incharge, including EN3B Powder Coating.	Sft	28.00	1,523	42,644
4.1.29	R.A	Providing, installing, testing & commissioning of vertical turbine pump (40 HP) of KSB or equivalent manufacturer of 2 Cusec capacity against pumping head of 120 feet including bowl assembly electrical motor totally enclosed fann cooled, tropically insulated & Motor Control Unit & Non Return Reflux Valve	Each	2	3,690,000	7,380,000
4.1.30	R.A	Providing and fixing Electromagnectic Flow Meter in Pump House complete in all respects or as per engineer incharge				

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**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**PUMP ROOM
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Specification; General Features: No moving Parts, Visual (LCD) display, Tamper proof, No reverse flow measurement. Detailed Metrological Specifications: Size: 250 mm(10 inch) Accuracy: Class –I(OIML/ISO) Material: Carbon steel, Protection Class: IP-68 Specification; Ambient Temperature: +5° to 55° C Liquid Temperature: up to 50° C working pressure: 1-10 bar Ratio R: Q3/Q1 = 80 Permanent flow rate (m3/ hr): Q3 = 250 Battery life: Minimum 10 years Installation: Horizontal Compliance with: ISO 4064 Certification; OIML: R49 (International Organization for Legal Metrology) by a notified body or Type examination certificate by a notified body under DIRECTIVE 2014/32/EU	Each	1	212,051	212,051
		Electrical Works				
4.1.31	R.A	LT Switch Gear Water Tight				
		MAIN DISTRIBUTION BOARD (MDB-PUMP) INSTALLED				
		IN PUMP ROOM				
		Fabrication, supply at site installation and commissioning & connection of wires/cables of distribution board concealed type, made of 16 SWG M.S sheet degreased & derusted, zinc phosphated, finished with electrostatic powder coating of 100 micron thickness in approved colour with hinged door, flexible earthing strap lockable handle, catcher, earthing bar, neutral strip, internal wiring, designation labels on MCCB, earthing bar, numbering beads on control wires, panel suitable for system 500 V, 50 HZ, 3 Phase & neutral, bus bars of 99.8% purity electrolytic copper, including cost of cable termination lugs, brass cable glands for incoming & outgoing cables, wiring from breakers, indication lamps, instruments & control with all accessories.				
		Incoming from existing source				
		01 : 150 Amps 3 pole MCCB RC 25 KA 03 Indication lamp of colour Red Yellow Blue 01 Digital Voltmeter of scale 0-410 Volt with selector switch 3 Sets of Brass Cable Glands suitable for incoming cable.				
		Outgoing				
		01 x 100 ATP MCCB RC 25KA (For 40HP Pump)				

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**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**PUMP ROOM
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		01 x 100 ATP MCCB RC 25KA (Spare)				
		01 x 10ASP MCB RC 6KA for Light Circuit				
		01 x 20ASP MCB RC 6KA for Power Circuit				
		01 x 20ASP MCB RC 6KA (Spare)				
		01 No : 40HP ASD Starter :-				
		01 : 100 Amps 3 pole MCCB RC 25 KA				
		02 : TP Magnetic Contactor 105A-AC3 (Main & Delta)				
		01 : TP Magnetic Contactor 65A-AC3 (For Star)				
		01 : Thermal Over Load Relay 70~95A				
		01 : U/O Voltage Relay, Phase Failure, Phase Reversal Relay				
		01 : Timer With Base				
		02 : On/Off Push Button				
		01 : Emergency Stop Button				
		04 : Indication Lights (On/Off/Trip)				
		01 : Auto/Manual Switch				
		02 : Miniature Auxiliary Relay				
		01 : Exhaust Fan with Cassettes				
		01 : Temperature regulator 0~60C	Each	1	585,116	585,116
		Non-Schedule Cables:				
4.1.32		Providing & laying 3 core cables of following sizes , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, un armored L.T cable in prelaid pipe/G.I. wire/trenches, etc.				
	a	1 No. 3 Core 35mm² Copper Conductor non-armoured , PVC Insulated, PVC Sheated, 660 / 1000 volt cable				
		From ASDS to Electrical Pump 40HP (Delta Connection)	Rft	30	1,330	39,900
	b	1 No. 3 Core 25mm² Copper Conductor non-armoured , PVC Insulated, PVC Sheated, 660 / 1000 volt cable				
		From ASDS to Electrical Pump 40HP (Star Connection)	Rft	30	1,122	33,660
4.1.33	R.A	Supply, installation and commissioning of Wall bracket fan, 14" dia plastic body along with the all accessories complete in all respects. (By Pak Fans, Royal Fans, GFC, Millat or approved equivalent)	Each	1	4,604	4,604

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
Supervision of PCP subprojects -Package-IV**

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**PUMP ROOM
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
4.1.34	R.A	Supply at site & installation of PVC back boxes compatible with switch & socket plates to be installed (Contractor should submit samples) by Popular, Klass or as approved by the engineer in charge.				
		a) Back Box: 3" x 3"	Each	1	444	444
		b) Back Box: 3" x 6"	Each	1	510	510
		c) MS Junction Box 9"x7" For General use	Each	1	1,734	1,734
4.1.35	R.A	Lighting Fixtures				
		Supply Installation Testing & Commissioning of following various Types of LED lights of local make with international standards NVC, Oppla and Orient or approved equivalent as per site engineer.				
		a) Tubelight 36W 4 Feet with LED Rod	Each	3	3,199	9,597
		b) 18W Bulkhead Light	Each	1	5,566	5,566
4.1.36	R.A	Earthing System - Rod Type				
		Supply, installation, testing and commissioning of complete earthing system for MDB-PUMP The work shall include 3 meter long copper rod of 20 mm dia size with bare copper conductor 2x50 mm sq ssc upto earth connecting point, insection chamber, etc to achieve less than 1 to 5 ohm specified earthing results. Complete in all respects as per drawing and specification or as directed by the Engineer	No.	2	78,824	157,648
4.1.37	R.A	Earth Connecting Points (ECP)				
		Supply of earth connecting points consisting of copper plate 12" long x 2" wide x 1/2" thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips / copper conductors and outgoing CPC.	No.	2	16,032	32,064
4.1.38	R.A	Hand Hole				
		Construction of hand hole size 18" x 18" for laying of Power and LV cables including top plate to be installed as and where shown on drawings, complete with fixing arrangement as per engineer instruction.	No.	1	8,565	8,565

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
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WATER SUPPLY NETWORK-BAHAWALNAGAR

(PRIORITY PROJECT)

PUMP ROOM

Engineer's cost estimate

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Sub Total				8,514,103
		Total for Schedule Items				1,980,210
		Total for Non-Schedule Items				8,514,103
		Bill Nr.4.1.: Pump Room for Underground Water Tank				10,494,313

(PRIORITY PROJECT)

TAKING OF SHEETS

Bill Nr. 4.1.: Pump Room for Underground Water Tank

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit
1.5.1	<u>PCC Type 1:2:4</u>						
	Pump Room Floor	1	176.40	1.00	0.17	30.00	
						Total	<u>30.00</u> Cft
1.5.2	<u>Brick Wall 1:5 c/s Ratio in Ground Floor</u>						
	Outer Wall 9"	1	57.75	0.75	12.00	520.00	
	Parapet	1	57.75	0.75	1.75	76.00	
						Total	<u>596.00</u> Cft
	<u>Deductions</u>						
	D1	1	6.00	0.75	7.00	32.00	
	W1	1	4.00	0.75	4.00	12.00	
						Total	<u>44.00</u> Cft
	<u>Lintels</u>						
	D1	1	7.00	0.75	0.75	4.00	
	W1	1	5.00	0.75	0.75	3.00	
						Total	<u>7.00</u> Cft
						Net Total	<u>545.00</u> Cft
1.5.3	<u>RCC 3000Psi in Super Structure</u>		Area				
	Slab	1	17.33	15.23	0.50	131.89	
	Parapet	1	12.00	0.50	0.75	4.50	
	D1	1	7.00	0.75	0.75	3.94	
	W1	1	5.00	0.75	0.75	2.81	
	Concrete pad	1	15.50	1.75	0.50	13.56	
						Total	<u>156.70</u> Cft
1.5.4	<u>Steel Grade 60</u>		Area				
	Super Structure	157	@	8.00	ib/cft	568.78	Kg
						Total	<u>568.78</u> Cft

1.5.5	<u>External Plaster 19mm thick 1:4c/s</u>					
	Room	1	60.90		13.75	837.38
					Total	<u>837.38</u> Sft
1.5.6	<u>Internal Plaster 13mm thick 1:4c/s</u>					
	Room	1	54.60		12.00	655.20
					Total	<u>655.20</u> Sft
	<u>Deductions</u>					
	D1	1	6.00		7.00	42.00
	W1	1	4.00		4.00	16.00
					Total	<u>58.00</u> Sft
					Net Total	<u>597.20</u> Sft
1.5.7	<u>Ceiling Plaster 10mm thick 1:3c/s</u>					
	1	1	14.50	12.50		181.25
					Total	<u>181.25</u> Sft
1.5.8	<u>Emulsion Paint</u>					
	Room	1	54.60		12.00	655.20
					Total	<u>655.20</u> Sft
	<u>Deductions</u>					
	D1	1	6.00		7.00	42.00
	W1	1	4.00		4.00	16.00
					Total	<u>58.00</u> Sft
					Net Total	<u>597.20</u> Sft
1.5.9	<u>Acrylic Treatment</u>					
	First Floor		Perimeter			
	External Wall	1	60.90		13.75	837.38
					Total	<u>837.38</u> Sft
1.5.10	<u>Aluminium Window</u>					
	W1	1	4.00		4.00	16.00
					Total	<u>16.00</u> Sft
1.5.11	<u>Aluminium Window Fly Screen</u>					
	W1	1	4.00		4.00	16.00

					Total	<u>16.00</u>	Sft
1.5.12	<u>Terrazzo floor</u>						
	Pump Room Floor	1	176.40	1.00		176.40	
					Total	<u>176.40</u>	Sft
1.5.13	<u>Terrazzo Dado & Skirting</u>						
	Room	1	54.60	0.33		18.02	
					Total	<u>18.02</u>	Sft
1.5.14	<u>Roof Treatment</u>						
	Room	1	176.40			176.40	
					Total	<u>176.40</u>	Sft
1.5.15	<u>M.S Door</u>						
	Ground Floor	1	4.00	7.00		28.00	
					Total	<u>28.00</u>	Sft
1.5.16	<u>M.S Girder & Cover</u>						
	Girder 15Ft Length @ 6 Kg / ft	1	90.00			90.00	
	MS Cover 16 Sft @ 2.5 Kg/Sft	1	40.00			40.00	
					Total	<u>130.00</u>	Kg
					Total	<u>1.30</u>	100Kg

Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision of PCP subprojects -Package-IV

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Tubewell

Engineer's cost estimate

Sr. Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount	Rs.
		Bill Nr. 5: Tube well (0.5 Cusec Capacity)					
		Schedule Items					
5.1	23-5	Direct Rotary/Reverse Rotary drilling of bore for tubewells in all types of soil except shingle, gravel and rock:- a) from ground level to 250 ft. (75 m) below ground level:- i) 15" to 18" (375 to 450 mm) i/d	Rft	150.00	755	113,303	
		Housing					
5.2	23-15	Providing and installing M.S. blind pipe socketed/welded joint, M.S. reducer (where necessary), in tubewell bore hole, including jointing/welding with strainer, etc. complete:- k) 15" i/d, ¼" (375 mm i/d 6 mm) thick	Rft	80.00	5,958	476,624	
5.3	23-13	Providing and installing Fiberglass Reinforced Polypropelene (FRP) strainer of specifid wall thickness having slot size of 0.9mm to 1.10mm in Tubewell bore hole i/c the cost of male/ female coupling with Nylone Strip, studs complete in all respect as approved and directed by the Engineer Incharge. vi) 10" inch dia (6.35 mm thickness)	Rft	45.00	2,899	130,442	
5.4	23-19	Shrouding with graded pea gravel 3/8" to 1/8" (10 to 3 mm), around tubewell in bore hole.	Cft	140.63	158	22,226	
5.5	23-7	Providing strong substantially built box of deodar wood 4'x2½'x9" (1200x750x225 mm), with compartments, lock and locking arrangement, for preserving samples of strata from bore hole.	Job	1	34,960	34,960	
5.6	23/52(b)	Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/ bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge (b) Flange Ended Ductile Iron Valve (xi) 6" dia	Each	1	74,954	74,954	
5.7	23-18(i)	Testing and developing of tubewell of size 6" (150 mm) i/d and above continuously. i) upto 1.5 cs. discharge	P/Hr	24	2,384	57,215	
		Delivery Pipe					
5.8	23-20	Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035) in trenches, with spigot and socket caulked lead joints, including cost of materials, such as lead, yarn, etc. complete in all respects:- d) 6" (150mm) i/d	Rft	50	2,465	123,248	
5.9	23-13	Providing and installing, Fiber Glass blank pipe in blank pipe in the tubewell borehole including jointing with the Fiber Glass blank pipe / strainer pipe. 250 mm (10" Dia) i/d 6.35mm thick.	Rft	25.00	2,899	72,468	
5.10	23-13	Providing and installing, Fiber Glass Bail plug in tubewell bore hole. 250 mm (10" Dia) i/d 6.35mm thick 10 feet long.	Rft	10.00	2,899	28,987	
		Sub-Total				1,134,427	
		Non-Schedule Items					
5.11	R.A	Sealing 50 feet from ground level with 1: 1 Cement sand mortar in the annular space of the tubewell around MS housing complete in all respect.	Cft	27.00	706	19,062	
5.12	R.A	Providing/fixing M.S centerlizers	Each	6.00	1,592	9,552	
5.13	R.A	Supply and installation of MS Reducer Dia: 15"/10", Wall thickness: 6mm, including welding etc. complete in all respect.	Each	1.00	15,528	15,528	
5.14	R.A	Taking sample one number at every 5 ft. or from each stratum as per direction of Engineer including submission construction charts etc. and results of strata analysis.	Each	30.00	146	4,380	
5.15	R.A	Geophysical bore hole logging	Job	1.00	66,084	66,084	

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**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Tubewell

Engineer's cost estimate

Sr. Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount	Rs.
5.16	R.A	Providing cement concrete/brick blocks to support bends with ratio 1:2:4 i/c of screening washing of stone aggregate shuttering and curing etc. complete as per drawing, complete job.	Each	1.00	556		556
5.17	R.A	Pipe line pressure gauge, supply and fixing.	Each	1.00	19,001		19,001
5.18	R.A	Construction of RCC support for tubewell delivery pipe and bend as per drawing complete in all respects.	Job	1.00	3,880		3,880
5.19	R.A	Providing and fixing Cast Iron Double Orifice air valve (PN-16) In accordance with BSEN:1074 complete in all respects as per Drawings & Specification & Instruction of the Engineer In charge (of Imported Make). Inlet Size 2" Dia					
		Design : EN 1074 – 4 Face to Face : EN 558 Table 2 Basic Series 48 FLANGES : EN 1092 Pressure rating : PN16 Testing : EN 1074-1,2&4 / EN12266 1.1×PN (in bar), Body: 1.5×PN (in bar).					
		Part Name : Material Shell : DI Body : DI Threaded outlet : Brass Float : PC/SS Base : Brass Rolling seal : EPDM Rubber Lever : DI O Ring : NBR Rubber	Each	1	41,751		41,751
5.20	R.A	Providing and fixing Non Return valve of specification given below					
		Design : EN 1074 – 3 Face to Face : EN 558 Table 2 Basic Series 48 FLANGES : EN 1092-2, ISO 7005-2 Pressure rating : PN16 Testing : EN 1074-3/ EN12266 1.1×PN (in bar), Body: 1.5×PN (in bar). External Lever : To be provided Part Name : Material					
		Body : DI Seat Ring : Alu-bronze DISC : DI Seat Ring : Alu-bronze Hinge Arm : DI Bonnet Gasket : Rubber Lever : DI Guide Bush : Rubber Bolts, nuts, Air Plug : SS shaft, spacer : SS					
		i) 6" i/d (150 mm)	Each	1.00	134,887		134,887
5.21	R.A	Providing and fixing Electromagnetic Flow Meter in Pump House complete in all respects or as per engineer incharge Specification; General Features: No moving Parts Visual (LCD) display Tamper proof No reverse flow measurement Detailed Metrological Specifications: Size: 150 mm(6 inch) Accuracy: Class –II (OIML/ISO) Material: Carbon steel Protection Class: IP-68 Specification; Ambient Temperature: +5° to 55° C Liquid Temperature: up to 50° C working pressure: 10 bar minimum Ratio R: Q3/Q1 = 80	Each	1	132,720		132,720

Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision of PCP subprojects -Package-IV

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Tubewell

Engineer's cost estimate

Sr. Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount	Rs.
		Certification; OIML: R49 (International Organization for Legal Metrology) by a notified body or Type examination certificate by a notified body under DIRECTIVE 2014/32/EU Permanent flow rate (m ³ / hr): Q3 = 63 Battery life: Minimum 10 years Installation: Horizontal Compliance with: ISO 4064					
5.22	R.A	Supplying, installation, testing & commissioning of vertical shaft deep well turbine pump (KSB, Grundfos or equivalent) with lowering of 60ft. including multistage bowl assembly ,impeller of led free bronze capable to discharge of 0.5-Cfs clear water against a total head of 150 ft., 1450 RPM +electric motor (15HP) of high efficiency class -F insulation A.C.400-V 3-phase 50 Hz, 4 pole electric motor IP-55 suitable to operate the V.T. Pump to discharge 0.5-Cfs at 180 ft. head (3-thermal sensors, one in each phase to be embedded in the motor winding, as per entire satisfaction of the Engineer incharge + MCU of following specification	Each	1	2,382,870	2,382,870	
		a) Control MCCB of rating as per recommendation of the manufacturer					
		b)Cartridge fuses of required rating = 3 Nos					
		c)Kit Kat fuses = 3 Nos					
		d) Air break main contactors of ratings as per manufacturer's recommendations					
		e) Air break contactors (star/delta) rating as per manufacturers recommendations					
		f) Time relay and precise adjustable thermal over-load relay					
		g) Under/Over voltage, phase reversal, phase loss protection /No. volt adjustable relay					
		h) Indicating lights 220V for RYB phases, on-off and all tripping like U/V, O/V with On/Off emergency stop push buttons.					
		i)3-Ammeters, 3-Voltmeters 0-500 volts.					
		j) Power cables from energy meter to MCU to motor of appropriate size housed in the PVC rigid/flexible conduit with brass end connectors.and clamped with the pump house wall and floor.					
5.23	R.A	Hypo Dosing Calorimeter with injection capacity of 8 ltr/sec, max pressure 10 bar, made europe	Each	1	113,250	113,250	
		Sub Total				2,943,521	
		Total for Schedule Items				1,134,427	
		Total for Non-Schedule Items				2,943,521	
		Sub Total (A) for Bill Nr.5 (1 No's Tube Well)				4,077,948	
		Sub Total (B) for Bill Nr.5.1 (1 No's Tube well Chamber)				3,464,145	
		Total (A+B) (1 No's Tube well + Tube Well Chamber)				7,542,093	
		Total Amount (For Total 20 No's Tube Wells + Chambers) Carried over to Summary of Price				150,841,861	

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TUBE WELL CHAMBER
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Nr.5.1:Tube well Chamber				
		Schedule Items				
5.1.1	3-21(a)(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) Ordinary soil	1000 Cft	1.25	11,658.25	14,622
5.1.2	26-43	Spraying termite proofing by using liquid FMC/ Biflex/ Terminex Exin/ Ms Hextar or equivalent @ specified suspension conce nte rate (SC), Mixing Ability - HEXSTAR with Ratio (1:250)= 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect. as approved by the Engineer Incharge.	Sft	861.81	9.90	8,532
5.1.3	6-36(a)(i)	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :- (260 Km Lead on crush)				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	0.40	10,130.06	4,052
5.1.4	6-5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8 (260 Km Lead)	100 Cft	5.16	37,385.26	192,908
5.1.5	7-30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	46.38	2862.00	132,740
5.1.6	7-4	Pacca brick work in foundation and plinth in:-				
		i) Cement, sand mortar:-				
		Ratio 1:6	100 Cft	14.95	28,385.40	424,362

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of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TUBE WELL CHAMBER
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
5.1.7	7-5	Pacca brick work in ground floor:- i) Cement, sand mortar:- Ratio 1:5	100 Cft	6.15	31,491.00	193,670
		Cement Concrete				
5.1.8		Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
	6-6(a)(i)	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
	+1-1	(3) Type C (nominal mix 1: 2: 4) (260 Km Lead on crush)	Cft	134.57	653.97	88,005
5.1.9	6-12(c)	Providing and fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars), Deformed bars (Grade 60)	100 Kg	4.88	31,952.80	156,076
5.1.10	11-18(b)	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- b) ratio 1:3	100 Sft	15.94	3,563.05	56,791
5.1.11	11-9(b)	Cement plaster 1:4 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	100 Sft	5.29	3,459.85	18,296
5.1.12	11-10(b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height.				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
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WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TUBE WELL CHAMBER
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		b) 1:3	100 Sft	1.65	3,960.25	6,534
5.1.13	11-23(a)	Distempering:- a) new surface:-				
		i) one coat	100 Sft	5.29	827.30	4,375
		ii) two coats	100 Sft	5.29	1,136.85	6,012
5.1.14	25-52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	Sft	48.00	1,336.55	64,154
5.1.15	25-53	Providing and fixing Aluminum Fly screen comprising of Fiber/ Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer/ powder coated of size 1-1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.	Sft	48.00	500.80	24,038
5.1.16	25-58	Providing and fixing M.S. flat 1/2"x1/8" (13mm x 3mm) grill including 3/4" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	Sft	48.00	529.55	25,418
5.1.17	10-22(b)	1 1/2"(40 mm) thick mosaic flooring, consisting of 1/2 "(13mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete including rubbing and polishing complete with finishing :-				

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WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TUBE WELL CHAMBER
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		(b) using white cement	100 Sft	1.44	23,729.55	34,171
5.1.18	10-37(a)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (b) using white cement ii) ½"(13 mm) thick	100 Sft	0.17	24,331.30	4,187
		Electrical Works				
5.1.19	24-3	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. iii) 25 mm i/d(1")	Rft	200	101.60	20,320
5.1.20	24-6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:- iii) 80 mm i/d(3")	Rft	130	228.75	29,738
5.1.21	24-11	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaid PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only):- i) 1.5 mm ² (3/0.029") For Point wiring ii) 2.5 mm ² (3/0.036") For Circuit wiring iv) 4mm ² (7/0.036") For Power Socket wiring	Rft	100	27.10	2,710
			Rft	50	22.55	1,128
			Rft	20	57.35	1,147

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TUBE WELL CHAMBER
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
5.1.22	24-102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
	a	Plastic Body				
	ii	12" dia	Each	1	3,380.85	3,381
5.1.23	24-12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc				
	vii	50mm sq Cu/PVC/PVC 600/1000 V CPC for ASDS to Pump	Rft	30	544.90	16,347
5.1.24	24-13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cables only)				
	c	PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-				
	xii	95 mm sq (37/0.072")	Rft	200	4,017.95	803,590
5.1.25	24-103a	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge				
		ii) 2 Gang switch	Each	2	688.80	1,378
		iii) 3 Gang switch	Each	1	805.20	805
		iv) Light Plug Sokcet	Each	2	662.40	1,325
5.1.26	24-13 B-VI	Providing & laying 3 core cables of following sizes , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, un armored L.T cable in prelaid pipe/G.I. wire/trenches, etc.				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TUBE WELL CHAMBER
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
	b	1 No. 3 Core 16mm ² Copper Conductor non-armoured , PVC Insulated, PVC Sheated, 600 / 1000 volt cable (7/1.63 mm (7/0.064"))				
		From ASDS to Electrical Pump 20HP (Star Connection)	Rft	30	536.60	16,098
5.1.27	23-62	Providing and fixing Chain Pulley Block of 5 ton capacity with 5 meter length of chain, as per required specifications complete in all respect and as approved by the Engineer Incharge.	Each	1	32,586.00	32,586
		MS GIRDER & MS COVER				
5.1.28	25-9	Small iron work, such as gusset plates, knees, bends, stirrups, straps, rings, etc. including cutting, drilling, riveting, handling, assembling and fixing; but excluding erection in position.	100 Kg	1.30	42,889.75	55,757
5.1.29	25-11	Erection and fitting in position iron trusses, staging of water tanks, etc.	100 Kg	1.30	1,414.70	1,839
5.1.30	10-41c	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. (50% Grey / 50% Coloured) B) 60-mm thick	P.Sft	840.00	158.65	133,266
5.1.31	103- a- viii	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge Three Pin Power Plug 15-32 Amp	Each	2	818.40	1,637
		Sub-Total				2,581,993
		Non-Schedule Items				
5.1.32	R.A	Providing and Fixing steel door with 16 SWG sheeting including angle iron chowkhat frame 1-1/2"x1-1/2"x3/16" and leaf frame 1"x1"x3/16", M.S Flat 3/4"x 3/16", complete with locking arrangement Welding and fixing in position as per drawing and as approved by				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TUBE WELL CHAMBER
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		the Engineer/incharge, including EN3B Powder Coating.	Sft	28.00	1,523	42,644
		Electrical Works				
5.1.33	R.A	LT Switch Gear Water Tight -IP 67 MAIN DISTRIBUTION BOARD (MDB- PUMP) INSTALLED IN PUMP ROOM				
		Fabrication, supply at site installation and commissioning & connection of wires/cables of distribution board concealed type, made of 16 SWG M.S sheet degreased & derusted, zinc phosphated, finished with electrostatic powder coating of 100 micron thickness in approved colour with hinged door, flexible earthing strap lockable handle, catcher, earthing bar, neutral strip, internal wiring, designation labels on MCCB, earthing bar, numbering beads on control wires, panel suitable for system 500 V, 50 HZ, 3 Phase & neutral, bus bars of 99.8% purity electrolytic copper, including cost of cable termination lugs, brass cable glands for incoming & outgoing cables, wiring from breakers, indication lamps, instruments & control with all accessories.				
		Incoming from existing source				
		01 : 100 Amps 3 pole MCCB RC 25 KA				
		03 Indication lamp of colour Red Yellow Blue				
		01 Digital Voltmeter of scale 0-410 Volt with selector switch				
		3 Sets of Brass Cable Glands suitable for incoming cable.				
		Outgoing				
		01 x 63 ATP MCCB RC 25KA (For 20HP Pump)				
		01 x 63 ATP MCCB RC 25KA (Spare)				
		01 x 10ASP MCB RC 6KA for Light Circuit				
		01 x 20ASP MCB RC 6KA for Power Circuit				
		01 x 20ASP MCB RC 6KA (Spare)				
		01 No : 20HP ASD Starter :-				
		01 : 63 Amps 3 pole MCCB RC 25 KA				
		02 : TP Magnetic Contactor 105A-AC3 (Main & Delta)				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TUBE WELL CHAMBER
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		01 : TP Magnetic Contactor 65A-AC3 (For Star)				
		01 : Thermal Over Load Relay 70~95A				
		01 : U/O Voltage Relay, Phase Failure, Phase Reversal Relay				
		01 : Timer With Base				
		02 : On/Off Push Button				
		01 : Emergency Stop Button				
		04 : Indication Lights (On/Off/Trip)				
		01 : Auto/Manual Switch				
		02 : Miniature Auxiliary Relay				
		01 : Exhaust Fan with Cassettes				
		01 : Temperature regulator 0~60C	Each	1	585,116.00	585,116
		Non-Schedule Cables:				
5.1.35	R.A	Providing & laying 3 core cables of following sizes , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, un armored L.T cable in prelaid pipe/G.I. wire/trenches, etc.				
	a	1 No. 3 Core 25mm² Copper Conductor non-armoured , PVC Insulated, PVC Sheated, 660 / 1000 volt cable				
		From ASDS to Electrical Pump 20HP (Delta Connection)	Rft	30	1,122.00	33,660
5.1.36	R.A	Supply, installation and commissioning of Wall bracket fan, 14" dia				
		plastic body along with the all accessories complete in all respects.				
		(By Pak Fans, Royal Fans, GFC, Millat or approved equivalent)	Each	1	4,604.00	4,604
5.1.37	R.A	Supply at site & installation of PVC back boxes compatible with				
		switch & socket plates to be installed (Contractor should submit				
		samples) by Popular, Klass or as approved by the engineer in charge.				
		a) Back Box: 3" x 3"	Each	1	444.00	444
		b) Back Box: 3" x 6"	Each	1	510.00	510

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TUBE WELL CHAMBER
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		c) MS Junction Box 9"x7" For General use	Each	1	1,734.00	1,734
5.1.38	R.A	Lighting Fixtures				
		Supply Installation Testing & Commissioning of following various Types of LED lights of local make with international standards				
		NVC, Oppl and Orient or approved equivalent as per site engineer.				
		a) Tubelight 36W 4 Feet with LED Rod	Each	3	3,199.00	9,597
		b) 18W Bulkhead Light	Each	1	5,566.00	5,566
5.1.39	R.A	Earthing System - Rod Type				
		Supply, installation, testing and commissioning of complete earthing system for MDB-PUMP The work shall include 3 meter long copper rod of 20 mm dia size with bare copper conductor 2x50 mm sq ssc upto earth connecting point, in section chamber, etc to achieve less than 1 to 5 ohm specified earthing results. Complete in all respects as per drawing and specification or as directed by the Engineer	No.	2	78,824.00	157,648
5.1.40	R.A	Earth Connecting Points (ECP)				
		Supply of earth connecting points consisting of copper plate 12" long x 2" wide x 1/2" thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips / copper conductors and outgoing CPC.	No.	2	16,032.00	32,064
5.1.41	R.A	Hand Hole				
		Construction of hand hole size 18" x 18" for laying of Power and LV cables including top plate to be installed as and where shown on drawings, complete with fixing arrangement as per engineer instruction.	No.	1	8,565.00	8,565
		Sub Total				882,152

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TUBE WELL CHAMBER
Engineer's cost estimate**

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Total for Schedule Items				2,581,993
		Total for Non-Schedule Items				882,152
		Total for Bill Nr.5.1 Tube well Chamber				3,464,145

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TAKING OF SHEETS
Bill Nr.5.1:Tube well Chamber**

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit
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2.2. Excavation

0-4.92 ft depth

Section 1-1	1	53.55	3.67	3.00	589.59
Section 2-2	2	3.67	3.67	3.00	80.81
Plinth Protection Wall	1	54.60	2.00	1.50	163.80
Access To Canal Bank	2	70.00	2.00	1.50	420.00
Total					<u>1,254</u> Cft

2.2. Anti Termite

Section 1-1	1	53.55	3.67	3.00	517.83
Section 2-2	2	3.67	3.67	3.00	70.98
Plinth Protection Wall	1	54.60	2.00	1.50	273.00
Total					<u>861.81</u> Sft

2.2. Horizontal DPC

Wall	1	53.55	0.75		40.00
Total					<u>40.00</u> Sft

2.2. PCC 1:4:8 in Foundation

Room	1	12.00	12.00	0.33	48.00
Plinth	1	46.73	2.00	0.25	23.00
Section 1-1	1	53.55	3.67	0.33	65.00
Section 2-2	2	3.67	3.67	0.33	9.00
Plinth Protection Wall	1	54.60	2.00	0.33	36.00
Access To Canal Bank	2	70.00	2.00	0.33	92.00
Access To Canal Bank	1	70.00	10.50	0.33	243.00
Total					<u>516.00</u> Cft

2.2. Sand under Floor

Room	1	12.00	12.00	5.33	768.00
Plinth	1	40.43	2.00	0.25	20.00
Access To Canal Bank	2	70.00	2.00	0.25	70.00
Access To Canal Bank	1	70.00	12.00	4.50	3,780
Total					<u>4,638</u> Cft

2.2. Block Wall 1:6 c/s Ratio in Foundation

Step 1

Wall	1	53.55	1.50	0.25	20.00
Plinth Protection Wall	1	48.83	1.13	0.25	14.00
Access To Canal Bank	2	70.00	1.50	0.25	53.00

Step 2

Wall	1	53.55	1.13	0.25	15.00
Plinth Protection Wall	1	48.83	0.75	1.00	37.00
Access To Canal Bank	2	70.00	1.13	1.00	158.00

Step 3

Wall	1	53.55	0.75	8.67	348.00
Plinth Protection Wall	1	48.83	0.75	6.00	220.00
Access To Canal Bank	2	70.00	0.75	6.00	630.00

Total **1,495** **Cft**

2.2. Brick Wall 1:5 c/s Ratio in Ground Floor

Wall	1	53.55	0.75	12.00	482.00
Parapet	1	53.55	0.75	5.00	201.00

Total **683.00** **Cft**

Deductions

D1	1	4.00	0.75	7.00	21.00
W1	2	6.00	0.75	4.00	36.00

Total **57.00** **Cft**

Lintels

D1	1	5.00	0.75	0.75	3.00
W1	2	7.00	0.75	0.75	8.00

Total **11.00** **Cft**

Net Total **615.00** **Cft**

2.2. RCC 1:1.5:3 in Column

		Area			
C1	-	2.25	0.75	17.50	-
C2	-	0.40	1.00	12.83	-

Total **-** **Cft**

2.2. RCC 1:1.5:3 in Super Structure

		Area			
Slab	1	14.50	14.50	0.50	105.13
Low Hight Slab	-	8.50	4.50	0.50	-
Parapet	-	8.50	0.50	1.00	-
Shade	1	7.50	2.50	1.00	18.75
Beam 1	-	11.03	0.75	0.50	-
Beam 2	-	11.55	0.75	0.50	-
Plinth Beam	-	10.50	0.75	0.75	-

D1	1	5.00	0.75	0.75	2.81	
W1	2	7.00	0.75	0.75	7.88	
					Total	<u>134.57</u> Cft
2.2. <u>Steel Grade 60</u>						
Super Structure	135	Area	@	8.00	ib/cft	488.46 Kg
					Total	<u>488.46</u> Cft
2.2. <u>External Plaster 19mm thick 1:4c/s</u>						
Room	1	56.70		12.00		680.40
Parapet	1	56.70		5.00		283.50
Access To Canal Bank	2	70.00		6.00		630.00
					Total	<u>1,593.9</u> Sft
2.2. <u>Internal Plaster 13mm thick 1:4c/s</u>						
Room	1	50.40		12.00		604.80
					Total	<u>604.80</u> Sft
<u>Deductions</u>						
D1	1	4.00		7.00		28.00
W1	2	6.00		4.00		48.00
					Total	<u>76.00</u> Sft
					Net Total	<u>528.80</u> Sft
2.2. <u>Ceiling Plaster 10mm thick 1:3c/s</u>						
Room	1	12.00	12.00			144.00
Shade	1	7.00	3.00			21.00
					Total	<u>165.00</u> Sft
2.2. <u>Emulsion Paint</u>						
Room	1	50.40		12.00		604.80
					Total	<u>604.80</u> Sft
<u>Deductions</u>						
D1	1	4.00		7.00		28.00
W1	2	6.00		4.00		48.00
					Total	<u>76.00</u> Sft
					Net Total	<u>528.80</u> Sft
2.2. <u>Acrylic Treatment</u>						
		Perimeter				
Room	1	56.70		12.00		680.40
Parapet	1	56.70		5.00		283.50

				Total	<u>963.90</u>	Sft
2.2. Aluminium Window						
W1	2	6.00		4.00	48.00	
				Total	<u>48.00</u>	Sft
2.2. Terrazzo floor						
Room	1	12.00	12.00		144.00	
				Total	<u>144.00</u>	Sft
2.2. Terrazzo Dado & Skirting						
Room	1	52.15		0.33	17.21	
				Total	<u>17.21</u>	Sft
2.2. 60mm Pavers						
Pavers	1	46.73	2.00		93.45	
				Total	<u>93.45</u>	Sft
2.2. M.S Door						
Ground Floor	1	4.00		7.00	28.00	
				Total	<u>28.00</u>	Sft
1.5.1 M.S Girder & Cover						
Girder 15Ft Length @ 6 Kg / ft	1	90.00			90.00	
MS Cover 16 Sft @ 2.5 Kg/Sft	1	40.00			40.00	
				Total	<u>130.00</u>	Kg
				Total	<u>1.30</u>	100Kg
2.2. Tuff Paver						
Access To Canal Bank	1	70.00	12.00		840.00	
				Total	<u>840.00</u>	Sft

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV**

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Installation of Valves on Existing Transmission Main

Engineer's cost estimate

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Nr. 7: Installation of valves on existing Transmission Main				
		Schedule Items				
7.1	23/52b	Providing and fixing Wash out Pipe including Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge				
		a) 4" i/d (100 mm)	Each	5	45,252.00	226,260
		b) 6" i/d (150 mm)	Each	15	74,954.40	1,124,316
		Sub Total				1,350,576
		Non-Schedule Items				
7.2	R.A	Providing and fixing DI Double Orifice air valve (PN-16) In accordance with BSEN:1074 complete in all respects as per Drawings & Specification & Instruction of the Engineer In charge (of Imported Make).				
		Design : EN 1074 – 4 Face to Face : EN 558 Table 2 Basic Series 48 FLANGES : EN 1092 Pressure rating : PN16 Testing : EN 1074-1,2&4 / EN12266 1.1×PN (in bar), Body: 1.5×PN (in bar).				
		Part Name : Material Shell : DI Body : DI Threaded outlet : Brass Float : PC/SS Base : Brass Rolling seal : EPDM Rubber : Lever : DI O Ring : NBR Rubber				
		Inlet Size 2" Dia	Each	25	41,751.00	1,043,775
7.3	R.A	Providing and fixing Non Return valve of specification given below				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident Supervision
of PCP subprojects -Package-IV**

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Installation of Valves on Existing Transmission Main

Engineer's cost estimate

Sr.Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		`Design: EN 1074 – 3 Face to Face: EN 558 Table 2 Basic Series 48 FLANGES: EN 1092-2, ISO 7005-2 Pressure rating: PN16 Testing: EN 1074-3/ EN12266 1.1×PN (in bar), Body: 1.5×PN (in bar). External Lever : To be provided Part Name: Material				
		Body: DI Seat Ring: Alu-bronze DISC: DI Seat Ring : Alu-bronze Hinge Arm: DI Bonnet Gasket : Rubber Lever : DI Guide Bush : Rubber Bolts, nuts, Air Plug : SS shaft, spacer : SS				
		6" i/d (150 mm)	Each	1	134,887.00	134,887
		8" i/d (200 mm)	Each	2	176,900.00	353,800
		10" i/d (250 mm)	Each	4	220,757.00	883,028
		18" i/d (450 mm)	Each	1	647,903.00	647,903
		20" i/d (500 mm)	Each	1	778,365.00	778,365
		24" i/d (600 mm)	Each	12	971,854.00	11,662,248
7.3	R.A	Providing, & construction of valve Chamber complete in all respects as per Drawings & Specification & Instruction of the Engineer Incharge. But Excluding the cost of Valve.				
		Chamber Size 1065mm X 1065mm	Each	13	87,102	1,132,326
7.4	R.A	Providing, & construction of valve Chamber complete in all respects as per Drawings & Specification & Instruction of the Engineer Incharge. But Excluding the cost of Valve.				
		Chamber Size 1065mm X 1500mm	Each	28	102,219	2,862,132
		Sub Total				19,498,464
		Total for Bill Nr. 7 (Carried over to Summary of Price)				20,849,040

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
Supervision of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**Provision of Pipe support at Drain/Canal Crossing
Engineer's cost estimate**

Sr.N r.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Nr. 8.: Pipe Support at Drain/Canal Crossing				
		Schedule Items				
8.1	3-21(a)(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) Ordinary soil	1000 Cft	0.10	11,658.25	1,137
8.2	6-5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8 (260 Km Lead)	100 Cft	0.12	37,385.26	4,486
		Cement Concrete				
8.3		Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
	6-6(a)(i)	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
	+1-1	(2) Type B (nominal mix 1: 1½: 3) (260 Km Lead on crush)	Cft	97.50	705.30	68,767

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
Supervision of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**Provision of Pipe support at Drain/Canal Crossing
Engineer's cost estimate**

Sr.N r.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
	6-9(c)	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
	+1-1	(b) Type B (nominal mix 1:1-1/2:3) (260 Km Lead on crush)	Cft	30.00	630.80	18,924
	6-12('c)	Providing and fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars), Deformed bars (Grade 60)	100 Kg	5.78	31,952.80	184,845
8.4	23-21	Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035) in trenches, with flanged and flanged joints complete in all respects:-				
		d) 6" (150 mm) i/d	Rft	20	2,338.30	46,766
		e) 8" (200 mm) i/d	Rft	40	4,069.65	162,786
		f) 10" (250 mm) i/d	Rft	40	5,394.85	215,794
		g) 12" (300 mm) i/d	Rft	20	10,827.70	216,554
		Sub-Total				920,059
		Non-Schedule Items				
8.5	R.A	Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035) in trenches, with flanged and flanged joints				
		v) 24" (600 mm) i/d	Rft	20	38,980.00	779,600
		Sub Total				779,600
		Total for Schedule Items				920,059
		Total for Non-Schedule Items				779,600
		Total for Bill Nr. 8 Carried to Summary				1,699,659

**WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)
TAKING OF SHEETS**

Bill Nr. 8.: Pipe Support at Drain/Canal Crossing

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit
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2.2.1 Excavation

0-4.92 ft depth

Pipe Support Column	5	6.50	1.50	2.00	97.50		
				Total	<u>97.50</u>		Cft

2.2.2 PCC 1:4:8 in Foundation

Pipe Support Column	5	6.50	1.50	0.25	12.00		
				Total	<u>12.00</u>		Cft

2.2.3 RCC 1:1.5:3 in Column

C1	5	3.00	1.00	6.50	97.50		
				Total	<u>97.50</u>		Cft

2.2.4 RCC 1:1.5:3 in Sub Structure

Pipe Support Column	5	6.00	1.00	1.00	30.00		
				Total	<u>30.00</u>		Cft

2.2.5 Steel Grade 60

Column & Base	128	@	10.00	ib/cft	578.49	Kg	
				Total	<u>578.49</u>		Cft

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
Supervision of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Rehabilitation of existing non-functional tubewells

Engineer's cost estimate

Sr. Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Nr. 9: Rehabilitation of Existing Non-Functional Tube wells				
		Schedule Items				
9.1	23/52(b)	Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge				
		(b) Flange Ended Ductile Iron Valve				
		(xi) 6" dia	Each	15	74,954.40	1,124,316
		xix) 24" dia	Each	1	954,290	954,290
9.2	24/13	Supply and erection of copper conductor cables for service dittoconnection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable vii) 16 mm (7/0.064")	Rft	2,500	694.80	1,737,000
9.3	24/10	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- a) 250/440 volts, PVC insulated: i) 3/0.74 mm (3/0.029")	Rft	4,500	27.85	125,325
9.4	24/12-iv	Providing and installation Power Wiring of Motor, Size 7/0.064	Rft	1,368	208	285,023
9.5	24/105	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge				
	(iii)	i) Transformer 25 KVA	Each	5.00	581,485.15	2,907,426.00
		For Replacement of Old Pipe Line				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
Supervision of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

Rehabilitation of existing non-functional tubewells

Engineer's cost estimate

Sr. Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
2.6	23-49	Providing, laying, testing and commissioning of Grade-B,MS Seamless Schedule pipe of nominal diameter, conforming to ASTM-A106, Lontrin/ Hufaz / Pecific baolai or equivalent, duly welded i/c the cost of specials complete as approved and directed by the Engineer Incharge. (For Canal Crossing arrangements & to be jointed with flanges arrangement)				
		xvi) 16" Dia	Rft	426	16,085.30	6,852,338
		Sub-Total				13,985,718
		Non-Schedule Items				
9.7	NS	Rehabilitation of existing non-functional tubewell components complete in all respect as per specification & instruction of the Engineer Incharge.				
	i	Providing and installation of Pumping Machinery including Pump, Motor , MCU, Bowl assembly complete in all respect i) Capacity 0.5 Cusec, head 180 feet	Each	10.00	1,150,500	11,505,000
	ii	Providing and installation of Pump including MCU complete in all respect KSB Deepwell Turbine Pump Type 8FMC/9 Stages i) Capacity 0.5 Cusec, head 150 feet	Each	5.00	618,500	3,092,500
9.8	NS	Providing and fixing Cast Iron Double Orifice air valve (PN-16) In accordance with BSEN:1074 complete in all respects as per Drawings & Specification & Instruction of the Engineer In charge (of Imported Make). Inlet Size 2" Dia				
		Design : EN 1074 – 4 Face to Face : EN 558 Table 2 Basic Series 48 FLANGES : EN 1092 Pressure rating : PN16 Testing : EN 1074-1,2&4 / EN12266 1.1×PN (in bar), Body: 1.5×PN (in bar).				

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
Supervision of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

**Rehabilitation of existing non-functional tubewells
Engineer's cost estimate**

Sr. Nr.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Part Name : Material Shell : DI Body : DI Threaded outlet : Brass Float : PC/SS Base : Brass Rolling seal : EPDM Rubber Lever : DI O Ring : NBR Rubber	Each	16	41,751.00	668,016
9.9	NS	Motor Rewinding of 25hp	Each	5	60,000	300,000
9.10	NS	Providing and installation of MCR				
		65/imp	Each	5	22,200	111,000
		60/imp	Each	10	22,000	220,000
9.11	NS	Transformer Rewinding of 25KVA (Payable to MEPCO on Demand Notice)	Each	5	240,000	1,200,000
9.12	NS	Providing and Installation of D-fuse	Each	5	10,878	54,390
9.13	NS	Providing, installing, testing & commissioning of Centrifugal Pump (40 HP) of 2.0 Cusec Capacity with 120 feet head of KSB or equivalent manufacturer complete in all respect as as per instructions of the Engineer.	Each	1	1,530,000	1,530,000
9.14	R.A	P/Fixing PFI (Power Factor Improvement Plant) panel floor mounted cubical type with internal wiring, busbar, powder coated paint. Complete in all respect comprising of following items: I. Power Capacitor 10 KVAR. II. Magnetic Contactor III. Circuit breaker IV. power factor relay/6steps V. LED Indication Lights VI. Single Pole Circuit Breaker VII. Current Transformer 400/5	Each	5	172,360.00	861,800.00
		Total for Non-Schedule Items				19,542,706
		Total for Bill Nr. 9 (Carried over to Summary of Price)				33,528,424

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
Supervision of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

External Electrification for Proposed Tubewells and Under Ground Water Tanks

Engineer's cost estimate

Sr.N r.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
		Bill Nr. 10: External Electrification for Proposed Tubewells and UGWTs				
		Schedule Items				
10.1	24/13	Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I. wire/trenches, etc. (rate for cable only):-				
		c) PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable viii) 25 mm (19/0.052")	Rft	2,300	1,302	2,993,795
10.2	24/77 b (iii)	Supply and erection of electric energy meter, including meter testing fee, etc.	Each	22.00	15,987	351,721
10.3	24/105	Supply, installation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating, 11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges, complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge (Payable to MEPCO on Demand Notice)				
	(iii)	i) Transformer 25 KVA	Each	20.00	581,485	11,629,703
	(iv)	ii) Transformer 50 KVA	Each	2.00	851,735	1,703,470
		Sub-Total				16,678,689
		Non-Schedule Items				
10.4	NS	Providing and installation of HT Spun Pole 36'	Each	70.00	33,163	2,321,410
10.5	NS	Providing and installation of D-fuse	Each	66	10,878	717,948

**Consultancy Services for Sectoral Planning, Detailed Design and Resident
Supervision of PCP subprojects -Package-IV
WATER SUPPLY NETWORK-BAHAWALNAGAR
(PRIORITY PROJECT)**

External Electrification for Proposed Tubewells and Under Ground Water Tanks

Engineer's cost estimate

Sr.N r.	MRS 23 Ref.	Description	Unit	Qty	Unit Rate	Amount Rs.
10.6	R.A	P/Fixing PFI (Power Factor Improvement Plant) panel floor mounted cubical type with internal wiring, busbar, powder coated paint. Complete in all respect comprising of following items:				
		I. Power Capacitor 20 KVAR.				
		II. Magnetic Contactor				
		III. Circuit breaker				
		IV. power factor relay/6steps				
		V. LED Indication Lights				
		VI. Single Pole Circuit Breaker				
		VII. Current Transformer 400/5	Each	22	275,492	6,060,824
		Total for Non-Schedule Items				9,100,182
		Total for Bill Nr. 10 (Carried over to Summary of Price)				25,778,871

ESIA Implementation Cost

**CONSULTANCY SERVICES FOR DETAILED DESIGN OF
INFRASTRUCTURE SUB-PROJECTS, SECTORAL PLANNING &
RESIDENTIAL SUPERVISION IN 16 CITIES OF PUNJAB – PACKAGE NO. 4
(BUREWALA, VEHARI & BAHAWALNAGAR)**

**Rehabilitation and improvement of Water Supply System in MC
Bahawalnagar**

ESIA Implementation Cost

Sr. No.	Item	Unit Cost (PKR)	No. of Unit	No. of Months	Cost for 12 Months (PKR)
1	Environmental Specialist	80,000	1	3	240,000
2	HSE Expert	80,000	1	3	240,000
3	Training (HSE & Environment Related Trainings for 100 persons)	Lump-sum			100,000
4	Environmental Monitoring (Ambient Air, Noise Level, Drinking Water, Surface Water & Vehicular Emission Monitoring)	200,000	1	2	400,000
5	Safety Signs	15,000	8		120,000
6	Safety Cones	1,000	20		20,000
7	Safety Tapes	1,500	50		75,000
8	Portable Delineator with chain	2,200	50		110,000
9	Emergency Portable Lights	3,000	10		30,000
10	Safety Hard Helmets	3,000	30		90,000
11	Safety Shoes	3,000	30		90,000
12	Hand Gloves	1,000	50		50,000
13	Face Masks (3 PLY)	300	50		15,000
14	Ear Plugs	500	50		25,000
15	Reflective Safety Vest	1,000	30		30,000
16	Safety Goggles	500	30		15,000
17	Infrared Thermometer (Benetech GM-2200 or equivalent)	40,000	1		40,000

18	Solid Waste Collection Drums with Cover	12,000	10		120,000
19	Pole Hanging Waste Bins	12,000	18		216,000
20	Digital Sound Level Meter	30,000	1		30,000
21	Labor Campsite Management	Lump- sum			200,000
22	Water Sprinkling	Lump- sum			200,000
23	Fire Fighting Equipment Purchase and refilling	10,000	2	-	20,000
24	First Aid box complete	10,000	2	-	20,000
Total Amount (PKR)					2,496,000

RATE ANALYSIS

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

R.C.C 1:1.5:3

Sr. No	Description	No.	Rate	Amount (Rs.)	Unit	References
1	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- (a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid insitu or precast laid in position, or prestressed members cast in situ, complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)					
		1	611.55	611.55	Cft	6-6(a)(i)
	Sub Total A			611.55	Cft	
2	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.					Ch-1/ Item-1
	1st Km	1	305.40	305.40		
	2nd Km	1	145.65	145.65		
	3rd Km	1	114.10	114.10		
	4th Km	1	81.20	81.20		
	5th Km	1	75.85	75.85		
	6th Km	1	74.60	74.60		
	7th Km	1	69.60	69.60		
	8th Km	1	68.85	68.85		
	9th Km	1	64.75	64.75		
	10th Km	1	60.75	60.75		
	11th Kms to 200Kms	190	52.20	9,918.00		
	201 Kms to 250 Kms	50	3.25	162.50		
	250 Kms to 260 Kms	10	2.00	20.00		
	Sub Total for 260 Km Lead			11,161.25	%Cft	
	Crush Quantity in R.C.C. 1:1.5:3	84.00	111.61	9,375.45		
	Sub Total B			93.75	Cft	
	Total (A + B)			705.30	Cft	

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

R.C.C 1:1.5:3

Sr. No	Description	No.	Rate	Amount (Rs.)	Unit	Reference
1	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- (a)(ii) Reinforced cement concrete in retaining/ Shear walls laid in situ or precast laid in position, or prestressed members cast in situ (Form work on both sides), complete in all respects: (b) Type B (nominal mix 1:1-1/2:3) (ii) More Than 9" thick (Avg)	1	627.10	627.10	1 Cft	6-6(a)(ii)
	Sub Total A			627.10	Cft	
2	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.					Ch-1/ Item-1
	1st Km	1	305.40	305.40		
	2nd Km	1	145.65	145.65		
	3rd Km	1	114.10	114.10		
	4th Km	1	81.20	81.20		
	5th Km	1	75.85	75.85		
	6th Km	1	74.60	74.60		
	7th Km	1	69.60	69.60		
	8th Km	1	68.85	68.85		
	9th Km	1	64.75	64.75		
	10th Km	1	60.75	60.75		
	11th Kms to 200Kms	190	52.20	9,918.00		
	201 Kms to 250 Kms	50	3.25	162.50		
	250 Kms to 260 Kms	10	2.00	20.00		
	Sub Total for 260 Km Lead			11,161.25	%Cft	
	Crush Quantity in R.C.C. 1:1.5:3	84.00	111.61	9,375.45		
	Sub Total B			93.75	Cft	
	Total (A + B)			720.85	Cft	

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

R.C.C 1:1.5:3

Sr. No	Description	No.	Rate	Amount (Rs.)	Unit	References
1	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-					
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not	1	502.20	502.20	1 Cft	6-6(a)(iii)
	Sub Total A			502.20	Cft	
2	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.					Ch-1/ Item-1
	1st Km	1	305.40	305.40		
	2nd Km	1	145.65	145.65		
	3rd Km	1	114.10	114.10		
	4th Km	1	81.20	81.20		
	5th Km	1	75.85	75.85		
	6th Km	1	74.60	74.60		
	7th Km	1	69.60	69.60		
	8th Km	1	68.85	68.85		
	9th Km	1	64.75	64.75		
	10th Km	1	60.75	60.75		
	11th Kms to 200Kms	190	52.20	9,918.00		
	201 Kms to 250 Kms	50	3.25	162.50		
	250 Kms to 260 Kms	10	2.00	20.00		
	Sub Total for 260 Km Lead			11,161.25	%Cft	
	Crush Quantity in R.C.C. 1:1.5:3	84.00	111.61	9,375.45		
	Sub Total B			93.75	Cft	
	Total (A + B)			595.95	Cft	

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

PCC 1:4:8

Sr. No	Description	No.	Rate	Amount (Rs.)	Unit	References
1	Cement concrete plain including placing, compacting, finishing of and curing complete (including washing and screening stone aggregate): Under Floor & Foundation (i) Ratio 1: 4: 8	1	26,670.70	26,670.70	100 Cft	6-5(i)
	Sub Total A			26,670.70	100 Cft	
2	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.					Ch-1/ Item-1
	1st Km	1	305.40	305.40		
	2nd Km	1	145.65	145.65		
	3rd Km	1	114.10	114.10		
	4th Km	1	81.20	81.20		
	5th Km	1	75.85	75.85		
	6th Km	1	74.60	74.60		
	7th Km	1	69.60	69.60		
	8th Km	1	68.85	68.85		
	9th Km	1	64.75	64.75		
	10th Km	1	60.75	60.75		
	11th Kms to 200Kms	190	52.20	9,918.00		
	201 Kms to 250 Kms	50	3.25	162.50		
	250 Kms to 260 Kms	10	2.00	20.00		
	Sub Total for 260 Km Lead			11,161.25	%Cft	
	Crush Quantity in P.C.C. 1:4:8	96.00	111.61	10,714.56		
	Sub Total B			10,714.56	100 Cft	
	Total (A + B)			37,385.26	100 Cft	

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

PCC 1:2:4

Sr. No	Description	No.	Rate	Amount (Rs.)	Unit	References
1	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4	1	35,925.10	35,925.10	100 Cft	6-5(i)
	Sub Total A			35,925.10	100 Cft	
2	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.					Ch-1/ Item-1
	1st Km	1	305.40	305.40		
	2nd Km	1	145.65	145.65		
	3rd Km	1	114.10	114.10		
	4th Km	1	81.20	81.20		
	5th Km	1	75.85	75.85		
	6th Km	1	74.60	74.60		
	7th Km	1	69.60	69.60		
	8th Km	1	68.85	68.85		
	9th Km	1	64.75	64.75		
	10th Km	1	60.75	60.75		
	11th Kms to 200Kms	190	52.20	9,918.00		
	201 Kms to 250 Kms	50	3.25	162.50		
	250 Kms to 260 Kms	10	2.00	20.00		
	Sub Total for 260 Km Lead			11,161.25	%Cft	
	Crush Quantity in P.C.C. 1:2:4	88.00	111.61	9,821.68		
	Sub Total B			9,821.68	100 Cft	
	Total (A + B)			45,746.78	100 Cft	

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

R.C.C 1:2:4

Sr. No	Description	No.	Rate	Amount (Rs.)	Unit	References
1	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-					
	(a) (i) Reinforced cement concrete in roof slab, beams, columns, lintels, girders and other structural members laid insitu or precast laid in position, or prestressed members cast in situ, complete in all respects:-					
	(3) Type C (nominal mix 1: 2: 4)	1	555.75	555.75	Cft	6-6(a)(i)
	Sub Total A			555.75	Cft	
2	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.					Ch-1/ Item-1
	1st Km	1	305.40	305.40		
	2nd Km	1	145.65	145.65		
	3rd Km	1	114.10	114.10		
	4th Km	1	81.20	81.20		
	5th Km	1	75.85	75.85		
	6th Km	1	74.60	74.60		
	7th Km	1	69.60	69.60		
	8th Km	1	68.85	68.85		
	9th Km	1	64.75	64.75		
	10th Km	1	60.75	60.75		
	11th Kms to 200Kms	190	52.20	9,918.00		
	201 Kms to 250 Kms	50	3.25	162.50		
	250 Kms to 260 Kms	10	2.00	20.00		
	Sub Total for 260 Km Lead			11,161.25	%Cft	
	Crush Quantity in R.C.C. 1:2:4	88.00	111.61	9,821.90		
	Sub Total B			98.22	Cft	
	Total (A + B)			653.97	Cft	

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

DPC 1:2:4

Sr. No	Description	No.	Rate	Amount (Rs.)	Unit	References
1	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 2: 4					
		1	8,902.35	8,902.35	100 Sft	6-36(a)(i)
	Sub Total A			8,902.35	100 Sft	
2	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.					Ch-1/ Item-1
	1st Km	1	305.40	305.40		
	2nd Km	1	145.65	145.65		
	3rd Km	1	114.10	114.10		
	4th Km	1	81.20	81.20		
	5th Km	1	75.85	75.85		
	6th Km	1	74.60	74.60		
	7th Km	1	69.60	69.60		
	8th Km	1	68.85	68.85		
	9th Km	1	64.75	64.75		
	10th Km	1	60.75	60.75		
	11th Kms to 200Kms	190	52.20	9,918.00		
	201 Kms to 250 Kms	50	3.25	162.50		
	250 Kms to 260 Kms	10	2.00	20.00		
	Sub Total for 260 Km Lead			11,161.25	%Cft	
	Crush Quantity in P.C.C. 1:2:4	11.00	111.61	1,227.71		
	Sub Total B			1,227.71	100 Sft	
	Total (A + B)			10,130.06	100 Sft	

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Distribution Network

DESCRIPTION OF ITEM:

Item No 1.6 Providing, & construction of valve Chamber complete in all respects as per Drawings & Specification & Instruction of the EngineerIncharge. But Excluding the cost of Valve.

Chamber Size 1065mm X 1065mm

Detail		Unit Rate (MKS System) per No		Qty		Rate Per Unit		Amount (Rs.)
Analysis for 1 Each								
(A) MATERIAL								
1	3-42	Excavation	218.66	Cft	12.84	Cft		2,808
2	7/7	Brick Work (1:4)	54.83	Cft	312.27	Cft		17,120
3	11-8(b)	Plaster (1:3), 1/2" Thick	309.60	sft	36.35	sft		11,254
4	6-3(b)	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- P.C.C (1:4:8) (260 Km Lead on Crush)	9.64	Cft	363.74	Cft		3,507
5	6-6 a(iii)3	a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- R.C.C (1:2:4) (260 Km Lead on Crush)	11.44	Cft	544.62	Cft		6,229
6	6-5(f)	P.C.C (1:2:4) (260 Km Lead on Crush)	21.84	Cft	457.47	Cft		9,993
7	6-5(f)	P.C.C (1:2:4) Thrust Block (260 Km Lead on Crush)	1.00	Cft	457.47	Cft		457
8	21-16	Manhole Cover	1.00	Per Set	16,026.15	Per Set		16,026
9	6-12(c)	Steel (Grade 60) (@10lbs per cft)	51.89	KGS	319.53	KGS		16,581
10	23.254	Upvc pipe 6" dia	3.00	Rft	617.00	Per Rft		1,851
11	23.439	Graded Pea Gravel 3/8"	1.00	Cft	66.00	Cft		66
Total								85,892
20% Overheads & profit @ Serail No. 10 only								370
Total Cost of Part A								86,262
LABOUR								
LB-024	Skilled cooly for pipe fixing		0.50	Nos.	1,400.00	Per Day		700
								700
Contractor's Profit & Overhea 20 Percent								140
Grand Total Rs.(A+B)								87,102
ITEM RATES								
Composite Rate per Each			Rs.		87,102.12	Say		87,102

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Distribution Network

DESCRIPTION OF ITEM:

Item No 1.7 Providing, & construction of valve Chamber complete in all respects as per Drawings & Specification & Instruction of the EngineerIncharge. But Excluding the cost of Valve.
Chamber Size 1065mm X 1500mm

Detail		Unit Rate (MKS System) per No		Qty		Rate Per Unit		Amount (Rs.)	
Analysis for 1 Each									
(A) MATERIAL									
1	3-42	Excavation	269.71	Cft	12.84	Cft		3,463.13	
2	7/7	Brick Work (1:4)	64.07	Cft	312.27	Cft		20,006.75	
3	11-8(b)	Plaster (1:3), 1/2" Thick	334.80	sft	36.35	sft		12,169.98	
4	6-3(b)	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- P.C.C (1:4:8) (260 Km Lead on Crush)	11.89	Cft	363.74	Cft		4,325.67	
5	6-6 a(iii)3	a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- R.C.C (1:2:4) (260 Km Lead on Crush)	15.10	Cft	544.62	Cft		8,222.66	
6	6-5(f)	P.C.C (1:2:4) (260 Km Lead on Crush)	27.39	Cft	457.47	Cft		12,530.96	
7	6-5(f)	P.C.C (1:2:4) Thrust Block (260 Km Lead on Crush)	1.00	Cft	457.47	Cft		457.47	
8	21-16	Manhole Cover	1.00	Per Set	16,026.15	Per Set		16,026.15	
9	6-12©	Steel (Grade 60) (@10lbs per cft)	68.50	KGS	319.53	KGS		21,888.76	
10	23.254	Upvc pipe 6" dia	3.00	Rft	617.00	Per Rft		1,851.00	
11	23.439	Graded Pea Gravel 3/8"	1.00	Cft	66.00	Per Rft		66.00	
Total								101,008.53	
20% Overheads & profit @ Serail No. 10 only								370.20	
Total Cost of Part A								101,378.73	
LABOUR									
LB-024	Skilled cooly for pipe fixing		0.50	Nos.	1,400.00	Per Day		700.00	
								700.00	
Contractor's Profit & Overhea		20 Percent							140.00
Grand Total Rs.(A+B)								102,218.73	
ITEM RATES									
Composite Rate per Each			Rs.		102,218.73	Say		102,219.00	

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Distribution Network

DESCRIPTION OF ITEM:

Item No 1.7 Providing, laying and jointing testing and disinfecting, high density polyethylene fitting (tee, cross, bend, elbow, stud ends etc) (PE-100) ,PN-10 of conforming to ISO 4427 or DIN 8074 / 8075 or equivalent standards
Reducer 355 x 225 mm Outer Dia.

Detail	Unit Rate (MKS System) per No		
	Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>			
(A) MATERIAL			
MR Reducer 355 x 225 mm Outer Dia.	10.00 Each	16,456.00 Each	164560.00
Transportation @5% of material			8228.00
Total			172788.00
Contractor Profit 20 Percent			34557.60
Total Cost of Part A			207345.60
<u>LABOUR</u>			
LB-046 Plumber	0.75 Nos.	1,400.00 Per Day	1050.00
LB-061 Helper	0.75 Nos.	1,050.00 Per Day	787.50
Sub Total (B)			1837.50
Contractor's Profit & Overheads 20 Percent			367.50
Grand Total Rs.(A+B)			209550.60
<u>ITEM RATES</u>			
Labour rate per 10 Each	Rs.	2,205.00	Say 2205.00
Composite Rate per 10 Each	Rs.	209,550.60	Say 209550.60
Composite rate per Each	Rs.	20,955.06	Say 20,955

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Transmission Main

DESCRIPTION OF ITEM:

Item No 2.6 Providing and fixing Cast Iron Double Orifice air valve (PN-16) In accordance with BSEN:1074 complete in all respects as per Drawings & Specification & Instruction of the Engineer In charge (of Imported Make).

Inlet Size 2" Dia

Detail	Unit Rate (MKS System) per No			Amount (Rs.)
	Qty	Rate Per Unit		
<u>Analysis for Each</u>				
(A) MATERIAL				
MR 2" i/d	1.00 Each	21,507.30	Each	21507.30
MR Custom Charges @ 50% of material cost	1.00 Each	10,753.65	Each	10753.65
Transportation @5% of material				1613.05
Total				33874.00
Contractor Profit 20 Percent				6774.80
Total Cost of Part A				40648.80
<u>LABOUR</u>				
LB-046 Plumber	0.375 Nos.	1,400.00	Per Day	525.00
LB-061 Helper	0.375 Nos.	1,050.00	Per Day	393.75
Sub Total (B)				918.75
Contractor's Profit & Overhead 20 Percent				183.75
Grand Total Rs.(A+B)				41751.30
<u>ITEM RATES</u>				
Labour rate per Each	Rs.	1,102.50	Say	1102.50
Composite Rate per Each	Rs.	41,751.30	Say	41751.30
Composite rate per Each	Rs.	41,751.30	Say	41,751

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Transmission Main

DESCRIPTION OF ITEM:

Item No 2.7

Providing and fixing Non-Return valve of Cast Iron | Ductile Iron Body in accordance with BS:5163 | BS:3464 Epoxy coated internally & externally Stainless Steel wedge, stamp & seat PN 16 complete in all respects as per Drawings & Specification & Instruction of the Engineer in charge. e)

18" i/d (480 mm)

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	18" i/d (480 mm)	1.00	511,875.00	511875.00
	Transportation @5% of material			25593.75
	Total			537468.75
	Contractor Profit 20 Percent			107493.75
	Total Cost of Part A			644962.50
<u>LABOUR</u>				
LB-046	Plumber	1.00	1,400.00 Per Day	1400.00
LB-061	Helper	1.00	1,050.00 Per Day	1050.00
	Sub Total (B)			2450.00
	Contractor's Profit & Overhead 20 Percent			490.00
	Grand Total Rs.(A+B)			647902.50
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	2,940.00 Say	2940.00
	Composite Rate per Each	Rs.	647,902.50 Say	647902.50
	Composite rate per Each	Rs.	647,902.50 Say	647,903

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Transmission Main

DESCRIPTION OF ITEM:

Item No 2.9

Providing, laying and jointing testing and disinfecting, high density polyethylene fitting (tee, cross, bend, elbow, stud ends etc) (PE-100) ,PN-12.5 of conforming to ISO 4427 or DIN 8074 / 8075 or equivalent standards

Reducer 355 x 315mm Outer Dia.

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	Reducer 355 x 315mm Outer Dia.	10.00 Each	19,006.00 Each	190060.00
	Transportation @5% of material			9503.00
	Total			199563.00
	Contractor Profit 20 Percent			39912.60
	Total Cost of Part A			239475.60
LB-046	Plumber	1.25 Nos.	1,400.00 Per Day	1750.00
LB-061	Helper	1.25 Nos.	1,050.00 Per Day	1312.50
	Sub Total (B)			3062.50
	Contractor's Profit & Overhead 20 Percent			612.50
	Grand Total Rs.(A+B)			243150.60
<u>ITEM RATES</u>				
	Labour rate per 10 Each	Rs.	3,675.00 Say	3675.00
	Composite Rate per 10 Each	Rs.	243,150.60 Say	243150.60
	Composite rate per Each	Rs.	24,315.06 Say	24,315

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Transmission Main

DESCRIPTION OF ITEM:

Item No 2.9

Providing, laying and jointing testing and disinfecting, high density polyethylene fitting (tee, cross, bend, elbow, stud ends etc) (PE-100) ,PN-12.5 of conforming to ISO 4427 or DIN 8074 / 8075 or equivalent standards

Reducer (i)400 x 450mm Outer Dia.

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	Reducer (i)400 x 450 mm Outer Dia.	10.00 Each	23,392.00 Each	233920.00
	Transportation @5% of material			11696.00
	Total			245616.00
	Contractor Profit 20 Percent			49123.20
	Total Cost of Part A			294739.20
<u>LABOUR</u>				
LB-046	Plumber	1.25 Nos.	1,400.00 Per Day	1750.00
LB-061	Helper	1.25 Nos.	1,050.00 Per Day	1312.50
	Sub Total (B)			3062.50
	Contractor's Profit & Overhead 20 Percent			612.50
	Grand Total Rs.(A+B)			298414.20
<u>ITEM RATES</u>				
	Labour rate per 10 Each	Rs.	3,675.00 Say	3675.00
	Composite Rate per 10 Each	Rs.	298,414.20 Say	298414.20
	Composite rate per Each	Rs.	29,841.42 Say	29,841

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Transmission Main

DESCRIPTION OF ITEM:

Item No 2.9

Providing, laying and jointing testing and disinfecting, high density polyethylene fitting (tee, cross, bend, elbow, stud ends etc) (PE-100) ,PN-12.5 of conforming to ISO 4427 or DIN 8074 / 8075 or equivalent standards

Reducer 400 x 450mm Outer Dia.

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	Reducer 400 x 450 mm Outer Dia.	10.00 Each	30,703.00 Each	307030.00
	Transportation @5% of material			15351.50
	Total			322381.50
	Contractor Profit 20 Percent			64476.30
	Total Cost of Part A			386857.80
 LABOUR				
LB-046	Plumber	1.50 Nos.	1,400.00 Per Day	2100.00
LB-061	Helper	1.50 Nos.	1,050.00 Per Day	1575.00
	Sub Total (B)			3675.00
	Contractor's Profit & Overhead 20 Percent			735.00
	Grand Total Rs.(A+B)			391267.80
 ITEM RATES				
	Labour rate per 10 Each	Rs.	4,410.00 Say	4410.00
	Composite Rate per 10 Each	Rs.	391,267.80 Say	391267.80
	Composite rate per Each	Rs.	39,126.78 Say	39,127

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Transmission Main

DESCRIPTION OF ITEM:

Item No 2.10

Providing and fixing Wash out Pipe including Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge
6" i/d (150 mm)

Wash Out Pipe

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
(A)				
<u>MATERIAL</u>				
<u>Analysis for Each</u>				
23/52 b-xi	Gate Valve 6"	1.00 Each	74,954.40 Each	74954.40
23/43 d-10	HDPE Pipe 6" Dia	25.00 Rft	904.25 Rft	22606.25
Total Contractor Profit 20 Percent				97560.65
Total Cost of Part A				97560.65
<u>LABOUR</u>				
LB-046	Plumber	Nos.	1,400.00 Per Day	0.00
LB-061	Helper	Nos.	1,050.00 Per Day	0.00
Sub Total (B)				0.00
Contractor's Profit & Overhe: 20 Percent				0.00
Grand Total Rs.(A+B)				97560.65
<u>ITEM RATES</u>				
Labour rate per 10 Each		Rs.	-	Say 0.00
Composite Rate per Each		Rs.	97,560.65	Say 97560.65
Composite rate per Each		Rs.	97,560.65	Say 97,561

UNDER GROUND WATER TANK**DESCRIPTION OF ITEM:**

Item No 3.11 Providing and Fixing of, Cast Iron Cowled Vent 4" dia on tank complete in all respect as approval and entire satisfaction of the Engineer.

Vent Cowl 4"

Detail	Unit Rate (MKS System) per No		
	Qty	Rate Per Unit	Amount (Rs.)
Analysis for Each			
(A) MATERIAL			
57 Vent Cowl 4"	1.00 Each	89.00 Each	89.00
Transportation @5% of material			4.45
Total			93.45
Contractor Profit 20 Percent			18.69
Total Cost of Part A			112.14
LABOUR			
LB-024 Skilled Cooly	0.10 Nos.	1,400.00 Per Day	140.00
Sub Total (B)			140.00
Contractor's Profit & Overheads 20 Percent			28.00
GST 17 Percent			15.13
Grand Total Rs.(A+B)			295.27
ITEM RATES			
Labour rate per Each	Rs.	168.00 Say	168.00
Composite Rate per Each	Rs.	295.27 Say	295.27
Composite rate per Each	Rs.	295.27 Say	295

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Pump Room

DESCRIPTION OF ITEM:

Item No 4.1.27 Providing and Fixing steel door with 16 SWG sheeting including angle iron chowkhat frame 1-1/2"x1-1/2"x3/16" and leaf frame 1"x1"x3/16", M.S Flat 3/4"x 3/16", complete with locking arrangement Welding and fixing in position as per drawing and as approved by the Engineer/incharge, including EN3B Powder Coating.

Sr. No	Description	Qty	Unit	Rate	Unit	Amount (Rs.)	References
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Analysis for 100Sf

(A) MATERIAL

1	Supplying of MS Door 16SWG including EN3B Powder Coating	100.0	Sft	1,250.00	Sft	125000.00	
	Total					125000.00	
	Contractor Profit	20	Percent			25000.00	
	Total Cost of Part A					150000.00	

LABOUR

1	Coolies skilled	1.00	Nos.	1,400.00	per day	1400.00	LB-024
2	Unskilled Coolies	0.50	Nos.	1,050.00	per day	525.00	LB-015

Sub Total (B) **1925.00**

Contractor's Profit & Overl 20 Percent **385.00**

Grand Total Rs.(A+B) 152310.00

ITEM RATES

Labour rate per 100 Sft Rs. **2,310.00** Say **2310.00**

Composite Rate per 100 Sft Rs. **152,310** Say **152310.00**

Composite rate per Sft Rs. **1,523.10** Say **1523.00**

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Pump Room

DESCRIPTION OF ITEM:

Item No 4.1.28

Providing, installing, testing & commissioning of vertical turbine pump of KSB or equivalent manufacturer of 2 Cusec capacity against pumping head of 120 feet including bowl assembly electrical motor totally enclosed fann cooled, tropically insulated & Motor Control Unit

Centrifugal Pump of 2 Cusec Capacity with 120 feet head

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	Centrifugal Pump of 2 Cusec Capacity with 120 feet head	1.00 Each	3,690,000.00 Each	3,690,000
	Total Contractor Profit 20 Percent			3,690,000
	Total Cost of Part A			3,690,000
<u>LABOUR</u>				
AI-1	Site Engineer	Nos.	Per Day	-
AI-2	Supervisor Electrical	Nos.	Per Day	-
AI-2	Supervisor Mechanical	Nos.	Per Day	-
AI-2	Supervisor Civil	Nos.	Per Day	-
LB-046	Plumber	Nos.	Per Day	-
LB-061	Helper	Nos.	Per Day	-
LB-046	Electrician	Nos.	Per Day	-
LB-061	Helper	Nos.	Per Day	-
LB-024	Skilled Cooly	Nos.	Per Day	-
	Sub Total (B)			-
	Contractor's Profit & Overheac 20 Percent			-
	Grand Total Rs.(A+B)			3,690,000
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	- Say	-
	Composite Rate per Each	Rs.	3,690,000.00 Say	3,690,000
	Composite rate per Each	Rs.	3,690,000.00 Say	3,690,000

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Pump Room

DESCRIPTION OF ITEM:

Item No 4.1.31 Providing and fixing Electromagnetic Flow Meter in Pump House complete in all respects or as per engineer incharge)
Electromagnetic Flow Meter 10" i/d (300 mm)

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	Electromagnetic Flow Meter 10" i/d (300 mm)	1.00 Each	175,000 Each	175000.00
	Total			175000.00
	Contractor Profit 20 Percent			35000.00
	Total Cost of Part A			210000.00
<u>LABOUR</u>				
AI-2	Supervisor Mechanical	0.50 Nos.	968.00 Per Day	484.00
LB-024	Skilled Cooly	0.50 Nos.	1,400.00 Per Day	700.00
LB-061	Helper	0.50 Nos.	1,050.00 Per Day	525.00
	Sub Total (B)			1709.00
	Contractor's Profit & Overhea 20 Percent			341.80
	Grand Total Rs.(A+B)			212050.80
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	2,050.80 Say	2050.80
	Composite Rate per Each	Rs.	212,050.80 Say	212050.80
	Composite rate per Each	Rs.	212,050.80 Say	212,051

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.32 Fabrication, supply at site installation and commissioning & connection of wires/cables of distribution board concealed type, made of 16 SWG M.S sheet degreased & derusted, zinc phosphated, finished with electrostatic powder coating of 100 micron thickness in approved colour with hinged door, flexible earthing strap lockable handle, catcher, earthing bar, neutral strip, internal wiring, designation labels on MCCB, earthing bar, numbering beads on control wires, panel suitable for system 500 V, 50 HZ, 3 Phase & neutral, bus bars of 99.8% purity electrolytic copper, including cost of cable termination lugs, brass cable glands for incoming & outgoing cables, wiring from breakers, indication lamps, instruments & control with all accessories.

MDB

Detail		Unit Rate (MKS System) per No		Amount (Rs.)
		Qty	Rate Per Unit	
<u>Analysis for 1 No.</u>				
(A) MATERIAL				
a	MDB	1.0	Each	480,344
b	Accessories			No
	Total			Percentage
	Contractor Profit	20	Percent	480,344
	Total Cost of Part A			96,069
				576,412
PART B				
1	Testing Commissioning & Balancing	480344	Material Price	0.01 Percentage
2	Transportation & Handling Charges	480344	Material Rate	- Percentage
LABOUR				
LB-035	Electrician	1.00	Nos.	1,400.00 per day
LB-061	Helper	1.00	Nos.	1,050.00 per day
	Sub Total (B)			7,253
	Contractor's Profit & Overhe	20	Percent	1,451
	Grand Total Rs.(A+B)			585,116
ITEM RATES				
	Labour rate per No	Rs.	7,253.44	Say 7,253
	Composite Rate per No	Rs.	585,116.32	Say 585,116
	Composite rate per No	Rs.	585,116.32	Say 585,116

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.33 Providing & laying 3 core cables of following sizes , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor , un armored L.T cable in prelaid pipe/G.I. wire/trenches, etc.
1 No. 3 Core 35mm2 Copper Conductor non-armoured , PVC Insulated, PVC Sheated, 660 / 1000 volt cable

Detail		Unit Rate (MKS System) per No				
		Qty	Rate Per Unit		Amount (Rs.)	
Analysis for 1 No.						
(A) MATERIAL						
1	3 Core 35mm2	1.0	Rft	863.46	No	863.46
2	Accessories				Percentage	
	Total					863.46
	Contractor Profit	20	Percent			172.69
	Total Cost of Part A					1036.15
PART B						
1	Testing Commissioning & Balancing		Material Price	-	Percentage	0.00
2	Transportation & Handling Charges		Material Rate	-	Percentage	0.00
LABOUR						
LB-035	Electrician	0.10	Nos.	1,400.00	per day	140.00
LB-061	Helper	0.10	Nos.	1,050.00	per day	105.00
	Sub Total (B)					245.00
	Contractor's Profit & Overhe	20	Percent			49.00
	Grand Total Rs.(A+B)					1330.15
ITEM RATES						
	Labour rate per Rft		Rs.	245.00	Say	245.00
	Composite Rate per Rft		Rs.	1,330.15	Say	1330.15
	Composite rate per Rft		Rs.	1,330.15	Say	1330

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.33 Providing & laying 3 core cables of following sizes , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor , un armored L.T cable in pre-laid pipe/G.I. wire/trenches, etc.
1 No. 3 Core 25mm2 Copper Conductor non-armoured , PVC Insulated, PVC Sheathed, 660 / 1000 volt cable

Detail	Unit Rate (MKS System) per No			Amount (Rs.)
	Qty	Rate Per Unit		
Analysis for 1 No.				
(A) MATERIAL				
1 3 Core 25mm2	1.0	Rft	690.30	No 690.30
2 Accessories				Percentage 690.30
Total				690.30
Contractor Profit 20 Percent				138.06
Total Cost of Part A				828.36
PART B				
1 Testing Commissioning & Balancing		Material Price	-	Percentage 0.00
2 Transportation & Handling Charges		Material Rate	-	Percentage 0.00
LABOUR				
LB-035 Electrician	0.10	Nos.	1,400.00	per day 140.00
LB-061 Helper	0.10	Nos.	1,050.00	per day 105.00
Sub Total (B)				245.00
Contractor's Profit & Overhead 20 Percent				49.00
Grand Total Rs.(A+B)				1122.36
ITEM RATES				
Labour rate per Rft	Rs.		245.00	Say 245.00
Composite Rate per Rft	Rs.		1,122.36	Say 1122.36
Composite rate per Rft	Rs.		1,122.36	Say 1122

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.34 Supply, installation and commissioning of Wall bracket fan, 14" dia plastic body along with the all accessories complete in all respects.(By Pak Fans, Royal Fans, GFC, Millat or approved equivalent)
Wall Bracket Fan

Detail	Unit Rate (MKS System) per No		Amount (Rs.)
	Qty	Rate Per Unit	
Analysis for 1 No.			
(A) MATERIAL			
1 Wall Bracket Fan	1.0 No	3,591.50 No	3591.50
2 Accessories		Percentage	3591.50
Total			718.30
Contractor Profit 20 Percent			4309.80
PART B			
1 Testing Commissioning & Balancing	Material Price	- Percentage	0.00
2 Transportation & Handling Charges	Material Rate	- Percentage	0.00
LABOUR			
LB-035 Electrician	0.10 Nos.	1,400.00 per day	140.00
LB-061 Helper	0.10 Nos.	1,050.00 per day	105.00
Sub Total (B)			245.00
Contractor's Profit & Overhe 20 Percent			49.00
Grand Total Rs.(A+B)			4603.80
ITEM RATES			
Labour rate per Rft	Rs.	245.00 Say	245.00
Composite Rate per Rft	Rs.	4,603.80 Say	4603.80
Composite rate per Rft	Rs.	4,603.80 Say	4604

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.35 Supply at site & installation of PVC back boxes compatible with switch & socket plates to be installed (Contractor should submit samples) by Popular, kLASS (Rate only for back box as).
Back Box: 3" x 3"

Detail		Unit Rate (MKS System) per No			Amount (Rs.)
		Qty	Rate Per Unit		
Analysis for 1 No.					
(A) MATERIAL					
1	Back Box: 3" x 3"	1.0	Each	125.00	No 125.00
2	Accessories				Percentage 125.00
	Total				25.00
	Contractor Profit	20	Percent		150.00
	Total Cost of Part A				150.00
PART B					
1	Testing Commissioning & Balancing	125.0	Material Price	-	Percentage 0.00
2	Transportation & Handling Charges	125.0	Material Rate	-	Percentage 0.00
LABOUR					
LB-035	Electrician	0.10	Nos.	1,400.00	per day 140.00
LB-061	Helper	0.10	Nos.	1,050.00	per day 105.00
	Sub Total (B)				245.00
	Contractor's Profit & Overhe	20			49.00
			percent		
	Grand Total Rs.(A+B)				444.00
ITEM RATES					
	Labour rate per No			Rs.	245.00 Say 245.00
	Composite Rate per No			Rs.	444.00 Say 444.00
	Composite rate per No			Rs.	444.00 Say 444

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.35 Supply at site & installation of PVC back boxes compatible with switch & socket plates to be installed (Contractor should submit samples) by Popular, kLASS (Rate only for back box as).
Back Box: 3" x 6"

Detail		Unit Rate (MKS System) per No			Amount (Rs.)
		Qty	Rate Per Unit		
Analysis for 1 No.					
(A) MATERIAL					
1	Back Box: 3" x 6"	1.0	Each	180.00	No 180.00
2	Accessories				Percentage 180.00
	Total				180.00
	Contractor Profit	20	Percent		36.00
	Total Cost of Part A				216.00
PART B					
1	Testing Commissioning & Balancing	180.0	Material Price	-	Percentage 0.00
2	Transportation & Handling Charges	180.0	Material Rate	-	Percentage 0.00
LABOUR					
LB-035	Electrician	0.10	Nos.	1,400.00	per day 140.00
LB-061	Helper	0.10	Nos.	1,050.00	per day 105.00
	Sub Total (B)				245.00
	Contractor's Profit & Overhe	20			49.00
			percent		
	Grand Total Rs.(A+B)				510.00
ITEM RATES					
	Labour rate per No			Rs.	245.00 Say 245.00
	Composite Rate per No			Rs.	510.00 Say 510.00
	Composite rate per No			Rs.	510.00 Say 510

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.35 Supply at site & installation of PVC back boxes compatible with switch & socket plates to be installed (Contractor should submit samples) by Popular, kLASS (Rate only for back box as).
MS Junction Box 9"x7" For General use

Detail		Unit Rate (MKS System) per No			Amount (Rs.)
		Qty	Rate Per Unit		
Analysis for 1 No.					
(A) MATERIAL					
1	MS Junction Box 9"x7" For General use	1.0	Each	1,200.00	No 1200.00
2	Accessories				Percentage 1200.00
	Total				240.00
	Contractor Profit 20 Percent				1440.00
	Total Cost of Part A				1440.00
PART B					
1	Testing Commissioning & Balancing	1200.0	Material Price	-	Percentage 0.00
2	Transportation & Handling Charges	1200.0	Material Rate	-	Percentage 0.00
LABOUR					
LB-035	Electrician	0.10	Nos.	1,400.00	per day 140.00
LB-061	Helper	0.10	Nos.	1,050.00	per day 105.00
	Sub Total (B)				245.00
	Contractor's Profit & Overhead 20 percent				49.00
	Grand Total Rs.(A+B)				1734.00
ITEM RATES					
	Labour rate per No			Rs. 245.00	Say 245.00
	Composite Rate per No			Rs. 1,734.00	Say 1734.00
	Composite rate per No			Rs. 1,734.00	Say 1734

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.36 Supply Installation Testing & Commissioning of following various Types of LED lights of local make with international standards NVC, Oppl and orient or approved equivalent as per site Engineer.
Lighting Fixtures

Detail		Unit Rate (MKS System) per No			Amount (Rs.)
		Qty	Rate Per Unit		
Analysis for 1 No.					
(A) MATERIAL					
1	Tubelight 36W 4 Feet with LED Rod	1.0	Each	1,930.50	No 1930.50
2	Accessories				Percentage 1930.50
	Total				386.10
	Contractor Profit 20 Percent				2316.60
	Total Cost of Part A				
PART B					
1	Testing Commissioning & Balancing		Material Price	-	Percentage 0.00
2	Transportation & Handling Charges		Material Rate	-	Percentage 0.00
LABOUR					
LB-035	Electrician	0.30	Nos.	1,400.00	per day 420.00
LB-061	Helper	0.30	Nos.	1,050.00	per day 315.00
	Sub Total (B)				735.00
	Contractor's Profit & Overhe 20 percent				147.00
	Grand Total Rs.(A+B)				3198.60
ITEM RATES					
	Labour rate per No		Rs.	735.00	Say 735.00
	Composite Rate per No		Rs.	3,198.60	Say 3198.60
	Composite rate per No		Rs.	3,198.60	Say 3199

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.36 Supply Installation Testing & Commissioning of following various Types of LED lights of local make with international standards NVC, Oppl and orient or approved equivalent as per site Engineer.
Lighting Fixtures

Detail		Unit Rate (MKS System) per No			Amount (Rs.)
		Qty	Rate Per Unit		
Analysis for 1 No.					
(A) MATERIAL					
1	Wall mount bulk head 18 Watt LED Lig	1.0	Each	4,446.00	No 4446.00
2	Accessories				Percentage 4446.00
	Total				889.20
	Contractor Profit 20 Percent				5335.20
PART B					
1	Testing Commissioning & Balancing		Material Price	-	Percentage 0.00
2	Transportation & Handling Charges		Material Rate	-	Percentage 0.00
LABOUR					
LB-035	Electrician	0.10	Nos.	1,400.00	per day 140.00
LB-061	Helper	0.05	Nos.	1,050.00	per day 52.50
	Sub Total (B)				192.50
	Contractor's Profit & Overhe 20 Percent				38.50
	Grand Total Rs.(A+B)				5566.20
ITEM RATES					
	Labour rate per No	Rs.		192.50	Say 192.50
	Composite Rate per No	Rs.		5,566.20	Say 5566.20
	Composite rate per No	Rs.		5,566.20	Say 5566

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.37 Supply of earthing system for protecting earthing of MDB with 3 meter long copper rod with 20 mm dia size with bare copper earth conductor 2 x 50 sq. mm, from earth pit to earth equipment connecting point, inspection chamber, marconite concrete, drilling etc, to achieve less than 1 ohm specified earthing results. Complete in all respect as per drawing and specification or as directed by the Engineer.

N.S Earthing System - Rod Type

Detail		Unit Rate (MKS System) per No			Amount (Rs.)	
		Qty	Rate Per Unit			
Analysis for 1 No.						
(A) MATERIAL						
1	Earthing System - Rod Type	1.0	Each	62,712.00	No	62,712
2	Accessories		Material Price	-	Percentage	-
	Total					62,712
	Contractor Profit	20	Percent			12,542
	Total Cost of Part A					75,254
PART B						
1	Testing Commissioning & Balancing	62712	Material Price	-	Percentage	-
2	Transportation & Handling Charges	62712	Material Rate	-	Percentage	-
LABOUR						
LB-024	Coolies skilled	0.50	Nos.	1,400.00	per day	700.00
LB-015	Unskilled Coolies	1.00	Nos.	1,050.00	per day	1,050.00
LB-035	Electrician	0.50	Nos.	1,400.00	per day	700.00
LB-061	Electrician Helper	0.50	Nos.	1,050.00	per day	525.00
	Sub Total (B)					2,975.00
	Contractor's Profit & Overhe.	20	Percent			595.00
	Grand Total Rs.(A+B)					78,824.40
ITEM RATES						
	Labour rate per No			Rs.	2,975.00	Say 2,975.00
	Composite Rate per No			Rs.	78,824.40	Say 78,824.40
	Composite rate per No			Rs.	78,824.40	Say 78,824.40

**(Input Material & Labour 2ND Bi-annual-2022 District Vehari)
Pump Room**

DESCRIPTION OF ITEM:

Item No 4.1.38 Supply of earth connecting points consisting of copper plate 12" long x 2" wide x ½" thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips / copper conductors and outgoing CPC.

Earth Connecting Points (ECP)

Detail		Unit Rate (MKS System) per No			Amount (Rs.)
		Qty	Rate Per Unit		
Analysis for 1 No.					
(A) MATERIAL					
1	Earth Connecting Points (ECP)	1.0	Each	12,870.00	No 12,870
2	Accessories				Percentage 12,870
	Total				2,574
	Contractor Profit	20	Percent		15,444
	Total Cost of Part A				
PART B					
1	Testing Commissioning & Balancing	12870.0	Material Price	-	Percentage -
2	Transportation & Handling Charges	12870.0	Material Rate	-	Percentage -
LABOUR					
LB-035	Electrician	0.20	Nos.	1,400.00	per day 280
LB-061	Helper	0.20	Nos.	1,050.00	per day 210
	Sub Total (B)				490
	Contractor's Profit & Overhe	20			98
			percent		
	Grand Total Rs.(A+B)				16,032
ITEM RATES					
	Labour rate per No		Rs.	490.00	Say 490
	Composite Rate per No		Rs.	16,032.00	Say 16,032
	Composite rate per No		Rs.	16,032.00	Say 16,032

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Tubewell

DESCRIPTION OF ITEM:

Item No 5.11 Sealing 50 feet from ground level with 1: 1 Cement sand mortar in the annular space of the tubewell around MS housing complete in all respect.

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for 58.875 Cft</u>				
Measuments				
	<u>L</u>	<u>W</u>	<u>H</u>	<u>Qty</u>
	4.71	0.25	50	58.875 cft
Dry Mortar Ratio		1.3		
Cement	((1.3*58.875*1)/2)/1.25		30.615	Bags
Sand	((1.3*58.875*1)/2)		38.27	Cft
(A) MATERIAL				
6.008	Cement Bags	30.62	Bags	1,000.00
				Bags
				30615
6.005	Chennab Sand	38.27	Cft	40.50
				Cft
				1550
	Total			32165
	Contractor Profit	20	Percent	6433
	Total Cost of Part A			38598
<u>LABOUR</u>				
LB-024	Skilled Cooley	1.00	Nos.	1,400.00
				Per Day
				1400
LB-061	Helper	1.00	Nos.	1,050.00
				Per Day
				1050
	Sub Total (B)			2450
	Contractor's Profit & Overheads	20	Percent	490
	Grand Total Rs.(A+B)			41538
<u>ITEM RATES</u>				
	Labour rate per Cft	Rs.	49.94	Say 50
	Composite Rate per Cft	Rs.	705.53	Say 706
	Composite rate per Cft	Rs.	705.53	Say 706

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Tubewell

DESCRIPTION OF ITEM:

Item No 5.12 Providing/fixing M.S centerlizers

Detail	Unit Rate (MKS System) per No			Amount (Rs.)
	Qty	Rate Per Unit		
<u>Analysis for Each</u>				
(A) MATERIAL				
12.041	Mild Steel centralizer using M.S Flat iron 1.5"x1/8"having 4 kg weight	4.00 Kg	170.00 PER KG	680.00
	Transportation @5% of material			34.00
	Total			714.00
	Contractor Profit 20 Percent			142.80
	Total Cost of Part A			856.80
<u>LABOUR</u>				
LB-024	Skilled Cooley	0.25 Nos.	1,400.00 Per Day	350.00
LB-061	Helper	0.25 Nos.	1,050.00 Per Day	262.50
	Sub Total (B)			612.50
	Contractor's Profit & Overhea 20 Percent			122.50
	GST 17 Percent			
	Grand Total Rs.(A+B)			1591.80
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	735.00 Say	735.00
	Composite Rate per Each	Rs.	1,591.80 Say	1591.80
	Composite rate per Each	Rs.	1,591.80 Say	1,592

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Tubewell

DESCRIPTION OF ITEM:

Item No 5.14 Supply and installation of MS Reducer Dia: 15"/10", Wall thickness: 6mm, including welding etc. complete in all respect.

Detail		Unit Rate (MKS System) per No		Amount (Rs.)
		Qty	Rate Per Unit	
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	MS Reducer Dia: 15"/10", Wall thickness: 6mm	1.00 Each	10,204.74 Each	10204.74
	Extra Welding Charges	1.00 Job	1,000.00 L.S	1000.00
	Transportation @5% of material			510.24
	Total			11714.98
	Contractor Profit 20 Percent			2343.00
	Total Cost of Part A			14057.97
<u>LABOUR</u>				
LB-046	Plumber	0.50 Nos.	1,400.00 Per Day	700.00
LB-061	Helper	0.50 Nos.	1,050.00 Per Day	525.00
	Sub Total (B)			1225.00
	Contractor's Profit & Overhea 20 Percent			245.00
	Grand Total Rs.(A+B)			15527.97
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	1,470.00 Say	1470.00
	Composite Rate per Each	Rs.	15,527.97 Say	15527.97
	Composite rate per Each	Rs.	15,527.97 Say	15,528

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Tubewell

DESCRIPTION OF ITEM:

Item No **5.15**

Taking sample one number at every 5 ft. or from each stratum as per direction of Engineer including submission construction charts etc. and results of strata analysis.

Detail	Unit Rate (MKS System) per No			Amount (Rs.)
	Qty	Rate Per Unit		
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	1.00	Each	116.00	116.00
Taking sample one number at every 5 ft. or from each stratum as per direction of Engineer including submission construction charts etc. and results of strata analysis.				
Transportation @5% of material				5.80
Total				121.80
Contractor Profit	20	Percent		24.36
Total Cost of Part A				146.16
<u>LABOUR</u>				
LB-046 Plumber	Nos.	1,400.00	Per Day	0.00
LB-061 Helper	Nos.	1,050.00	Per Day	0.00
Sub Total (B)				0.00
Contractor's Profit & Overhea				20 Percent
Grand Total Rs.(A+B)				146.16
<u>ITEM RATES</u>				
Labour rate per Each	Rs.	-	Say	0.00
Composite Rate per Each	Rs.	146.16	Say	146.16
Composite rate per Each	Rs.	146.16	Say	146

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Tubewell

DESCRIPTION OF ITEM:

Item No 5.17 Geophysical bore hole logging

Detail	Unit Rate (MKS System) per No			Amount (Rs.)
	Qty	Rate Per Unit		
<u>Analysis for Each</u>				
(A) MATERIAL				
MR Geophysical bore hole logging	1.00 Each	52,447.50 Each		52447.50
Transportation @5% of material				2622.38
Total				55069.88
Contractor Profit 20 Percent				11013.98
Total Cost of Part A				66083.85
<u>LABOUR</u>				
LB-046 Plumber	Nos.	1,400.00	Per Day	0.00
LB-061 Helper	Nos.	1,050.00	Per Day	0.00
Sub Total (B)				0.00
Contractor's Profit & Overhea 20 Percent				0.00
Grand Total Rs.(A+B)				66083.85
<u>ITEM RATES</u>				
Labour rate per Each	Rs.	-	Say	0.00
Composite Rate per Each	Rs.	66,083.85	Say	66083.85
Composite rate per Each	Rs.	66,083.85	Say	66,084

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

R.C.C 1:2:4

Sr. No	Description	No.	Rate	Amount (Rs.)	Unit	References
1	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- (a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- (3) Type C (nominal mix 1: 2: 4)	1	457.75	457.75	Cft	6-6 (a) (i)&(ii)
	Sub Total A			457.75	Cft	
2	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.					Ch-1/ Item-1
	1st Km	1	305.40	305.40		
	2nd Km	1	145.65	145.65		
	3rd Km	1	114.10	114.10		
	4th Km	1	81.20	81.20		
	5th Km	1	75.85	75.85		
	6th Km	1	74.60	74.60		
	7th Km	1	69.60	69.60		
	8th Km	1	68.85	68.85		
	9th Km	1	64.75	64.75		
	10th Km	1	60.75	60.75		
	11th Kms to 200Kms	190	52.20	9,918.00		
	201 Kms to 250 Kms	50	3.25	162.50		
	250 Kms to 260 Kms	10	2.00	20.00		
	Sub Total for 260 Km Lead			11,161	%Cft	
	Crush Quantity in R.C.C. 1:2:4	88.00	111.61	9,821.90		
	Sub Total B			98.22	Cft	
	Total (A + B)			555.97	Cft	

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Tubewell

DESCRIPTION OF ITEM:

Item No 5.21 Pipe line pressure gauge, supply and fixing.

Detail		Unit Rate (MKS System) per No		Amount (Rs.)
		Qty	Rate Per Unit	
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	Pipe line pressure gauge, supply and fixing.	1.00 Each	15,080.13 Each	15080.13
	Transportation @5% of material			754.01
	Total			15834.14
	Contractor Profit 20 Percent			3166.83
	Total Cost of Part A			19000.96
<u>LABOUR</u>				
LB-046	Plumber	Nos.	1,400.00 Per Day	0.00
LB-061	Helper	Nos.	1,050.00 Per Day	0.00
	Sub Total (B)			0.00
	Contractor's Profit & Overhea 20 Percent			0.00
	Grand Total Rs.(A+B)			19000.96
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	- Say	0.00
	Composite Rate per Each	Rs.	19,000.96 Say	19000.96
	Composite rate per Each	Rs.	19,000.96 Say	19,001

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Transmission Main

DESCRIPTION OF ITEM:

Item No 5.23

Providing and fixing Non-Return valve of Cast Iron | Ductle Iron BodyIn accordance with BS:5163 | BS:3464 Epoxy coated internally & externally Stainless Steel wedge, stamp & seat PN 16 complete in all respects as per Drawings & Specification & Instruction of the EngineerIncharge. e)

6" i/d (150 mm)

Detail		Unit Rate (MKS System) per No		Amount (Rs.)
		Qty	Rate Per Unit	
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	6" i/d (150 mm)	1.00 Each	106,470.00 Each	106470.00
	Transportation @5% of material			5323.50
	Total			111793.50
	Contractor Profit 20 Percent			22358.70
	Total Cost of Part A			134152.20
<u>LABOUR</u>				
LB-046	Plumber	0.25 Nos.	1,400.00 Per Day	350.00
LB-061	Helper	0.25 Nos.	1,050.00 Per Day	262.50
	Sub Total (B)			612.50
	Contractor's Profit & Overhea 20 Percent			122.50
	Grand Total Rs.(A+B)			134887.20
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	735.00 Say	735.00
	Composite Rate per Each	Rs.	134,887.20 Say	134887.20
	Composite rate per Each	Rs.	134,887.20 Say	134,887

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Tubewell

DESCRIPTION OF ITEM:

Item No 5.24

Providing and fixing Electromagnetic Flow Meter in Pump House complete in all respects or as per engineer inchargee)
6" i/d (150 mm)

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	Flowmeter 6" i/d (150 mm)	1.00 Each	103,000.00 Each	103000.00
	Transportation @5% of material			5150.00
	Total			108150.00
	Contractor Profit 20 Percent			21630.00
	Total Cost of Part A			129780.00
<u>LABOUR</u>				
LB-046	Plumber	1.00 Nos.	1,400.00 Per Day	1400.00
LB-061	Helper	1.00 Nos.	1,050.00 Per Day	1050.00
	Sub Total (B)			2450.00
	Contractor's Profit & Overhead 20 Percent			490.00
	Grand Total Rs.(A+B)			132720.00
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	2,940.00 Say	2940.00
	Composite Rate per Each	Rs.	132,720.00 Say	132720.00
	Composite rate per Each	Rs.	132,720.00 Say	132,720

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Tubewell**DESCRIPTION OF ITEM:****Item
No****5.24**

Providing, installing, testing & commissioning of lowering of vertical shaft water lubricated deep well turbine pump of KSB or equivalent manufacturer of 0.5 Cusec capacity against pumping head of 150 feet including lowering of bowl assembly along with vertical solid shaft electrical motor totally enclosed fann cooled, tropically insulated, + Motor Control Unit

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	Turbine Pump 0.5 Cusec capacity against pumping head of 150 feet Transportation @5% of material	1.00 Each	2,382,870.00 Each	2382870.00
	Total			2382870.00
	Contractor Profit 0 Percent			0.00
	Total Cost of Part A			2382870.00
<u>LABOUR</u>				
	L.S Charges for Civil & Electrical Works	0.00 Nos.	40,000.00 Per Job	0.00
	Sub Total (B)			0.00
	Contractor's Profit & Overhea 20 Percent			0.00
	Grand Total Rs.(A+B)			2382870.00
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	- Say	0.00
	Composite Rate per Each	Rs.	2,382,870.00 Say	2382870.00
	Composite rate per Each	Rs.	2,382,870.00 Say	2,382,870

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Pump Room

DESCRIPTION OF ITEM:

Item No 5.23 Hypo Dosing Calorimeter with injection capacity of 8 ltr/sec, max pressure 10 bar, made europe

Detail	Unit Rate (MKS System) per No		
	Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>			
(A) MATERIAL			
MR Hypo Dosing Calorimeter with injection capacity of 8 ltr/sec, max pressure 10 bar, made europe	1.00 Each	86,400 Each	86,400
Total Contractor Profit 20 Percent			86,400 17,280
Total Cost of Part A			103,680
<u>LABOUR</u>			
L.S Charges for Civil & Electrical Works	1.00 Nos.	8,000.00 Per Job	8,000
Sub Total (B)			8,000
Contractor's Profit & Overhea 20 Percent			1,600
Grand Total Rs.(A+B)			113,280
<u>ITEM RATES</u>			
Labour rate per Each	Rs.	9,600.00 Say	9,600
Composite Rate per Each	Rs.	113,280.00 Say	113,280
Composite rate per Each	Rs.	113,280.00 Say	113,250

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Pump Room

DESCRIPTION OF ITEM:

Item No 7.2 P/fixing D.I non return valve in accordance with BS 3464 PN16 epoxy cotted internally and externally stainless Steel Wedge, stamp and seatas per specifications 250 mm dia with integral flanges i/c rubber rings, complete in all respect.

8" i/d (200 mm)

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	8" i/d (200 mm)	1.00 Each	139,230.00 Each	139230.00
	Transportation @5% of material			6961.50
	Total			146191.50
	Contractor Profit 20 Percent			29238.30
	Total Cost of Part A			175429.80
<u>LABOUR</u>				
LB-046	Plumber	0.50 Nos.	1,400.00 Per Day	700.00
LB-061	Helper	0.50 Nos.	1,050.00 Per Day	525.00
	Sub Total (B)			1225.00
	Contractor's Profit & Overhead 20 Percent			245.00
	Grand Total Rs.(A+B)			176899.80
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	1,470.00 Say	1470.00
	Composite Rate per Each	Rs.	176,899.80 Say	176899.80
	Composite rate per Each	Rs.	176,899.80 Say	176,900

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Pump Room

DESCRIPTION OF ITEM:

Item No 5.1.28 P/fixing D.I non return valve in accordance with BS 3464 PN16 epoxy cotted internally and externally stainless Steel Wedge, stamp and seatas per specifications 250 mm dia with integral flanges i/c rubber rings, complete in all respect.

10" i/d (250 mm)

Detail	Unit Rate (MKS System) per No		
	Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>			
(A) MATERIAL			
MR 10" i/d (250mm)	1.00 Each	174,037.50 Each	174037.50
Transportation @5% of material			8701.88
Total			182739.38
Contractor Profit 20 Percent			36547.88
Total Cost of Part A			219287.25
<u>LABOUR</u>			
LB-046 Plumber	0.50 Nos.	1,400.00 Per Day	700.00
LB-061 Helper	0.50 Nos.	1,050.00 Per Day	525.00
Sub Total (B)			1225.00
Contractor's Profit & Overhea 20 Percent			245.00
Grand Total Rs.(A+B)			220757.25
<u>ITEM RATES</u>			
Labour rate per Each	Rs.	1,470.00	Say 1470.00
Composite Rate per Each	Rs.	220,757.25	Say 220757.25
Composite rate per Each	Rs.	220,757.25	Say 220,757

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Pump Room

DESCRIPTION OF ITEM:

Item No 7.2 P/fixing D.I non return valve in accordance with BS 3464 PN16 epoxy cotted internally and externally stainless Steel Wedge, stamp and seatas per specifications 250 mm dia with integral flanges i/c rubber rings, complete in all respect.

20" i/d (500 mm)

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	20" i/d (500 mm)	1.00	614,250.00	614250.00
	Transportation @5% of material			30712.50
	Total			644962.50
	Contractor Profit 20 Percent			128992.50
	Total Cost of Part A			773955.00
<u>LABOUR</u>				
LB-046	Plumber	1.50	1,400.00	2100.00
LB-061	Helper	1.50	1,050.00	1575.00
	Sub Total (B)			3675.00
	Contractor's Profit & Overhead 20 Percent			735.00
	Grand Total Rs.(A+B)			778365.00
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	4,410.00	Say 4410.00
	Composite Rate per Each	Rs.	778,365.00	Say 778365.00
	Composite rate per Each	Rs.	778,365.00	Say 778,365

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Pump Room

DESCRIPTION OF ITEM:

Item No 7.2 P/fixing D.I non return valve in accordance with BS 3464 PN16 epoxy cotted internally and externally stainless Steel Wedge, stamp and seatas per specifications 250 mm dia with integral flanges i/c rubber rings, complete in all respect.

24" i/d (600 mm)

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	24" i/d (600 mm)	1.00 Each	767,812.50 Each	767812.50
	Transportation @5% of material			38390.63
	Total			806203.13
	Contractor Profit 20 Percent			161240.63
	Total Cost of Part A			967443.75
<u>LABOUR</u>				
LB-046	Plumber	1.50 Nos.	1,400.00 Per Day	2100.00
LB-061	Helper	1.50 Nos.	1,050.00 Per Day	1575.00
	Sub Total (B)			3675.00
	Contractor's Profit & Overhead 20 Percent			735.00
	Grand Total Rs.(A+B)			971853.75
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	4,410.00 Say	4410.00
	Composite Rate per Each	Rs.	971,853.75 Say	971853.75
	Composite rate per Each	Rs.	971,853.75 Say	971,854

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Pipe Support

DESCRIPTION OF ITEM:

Item No 2.9 Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035) in trenches, with flanged and flanged joints)
24" (600 mm) i/d

Detail	Unit Rate (MKS System) per No		
	Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Rft</u>			
(A) MATERIAL			
MR 24" (600 mm) i/d	10.00 Rft	30,703.00 Rft	307,030
Transportation @5% of material			15,352
Total			322,382
Contractor Profit 20 Percent			64,476
Total Cost of Part A			386,858
<u>LABOUR</u>			
LB-046 Plumber	1.00 Nos.	1,400.00 Per Day	1,400
LB-061 Helper	1.00 Nos.	1,050.00 Per Day	1,050
Sub Total (B)			2,450
Contractor's Profit & Overheads 20 Percent			490
Grand Total Rs.(A+B)			389,798
<u>ITEM RATES</u>			
Labour rate per 10 Rft	Rs.	2,940 Say	2,940
Composite Rate per 10 Rft	Rs.	389,798 Say	389,798
Composite rate per Rft	Rs.	38,980 Say	38,980

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Rehabilitation of Existing

DESCRIPTION OF ITEM:

Item No 9.6 Providing and installation of Pumping Machinery including Pump, Motor ,
MCU, Bowl assembly complete in all respect
i) Capacity 0.5 Cusec, head 180 feet

Detail		Unit Rate (MKS System) per No		
		Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	i) Capacity 0.5 Cusec, head 180 feet Transportation @5% of material	1.00 Each	1,150,500 Each	1,150,500
	Total			1,150,500
	Contractor Profit 0 Percent			-
	Total Cost of Part A			1,150,500
<u>LABOUR</u>				
	L.S Charges for Civil & Electrical Works	0.00 Nos.	40,000 Per Job	-
	Sub Total (B)			-
	Contractor's Profit & Overhe: 20 Percent			-
	Grand Total Rs.(A+B)			1,150,500
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	- Say	-
	Composite Rate per Each	Rs.	1,150,500 Say	1,150,500
	Composite rate per Each	Rs.	1,150,500 Say	1,150,500

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Rehabilitation of Existing

DESCRIPTION OF ITEM:

Item No 9.6 Providing and installation of Pump including MCU complete in all respect FlowPak Deepwell Turbine Pump Type 8FMC/9 Stages
i) Capacity 0.5 Cusec, head 150 feet

Detail		Unit Rate (MKS System) per No		Amount (Rs.)
		Qty	Rate Per Unit	
<u>Analysis for Each</u>				
(A) MATERIAL				
MR	i) Capacity 0.5 Cusec, head 150 feet Transportation @5% of material	1.00 Each	618,500.00 Each	618500.00
	Total			618500.00
	Contractor Profit 0 Percent			0.00
	Total Cost of Part A			618500.00
<u>LABOUR</u>				
	L.S Charges for Civil & Electrical Works	0.00 Nos.	40,000.00 Per Job	0.00
	Sub Total (B)			0.00
	Contractor's Profit & Overhead 20 Percent			0.00
	Grand Total Rs.(A+B)			618500.00
<u>ITEM RATES</u>				
	Labour rate per Each	Rs.	- Say	0.00
	Composite Rate per Each	Rs.	618,500.00 Say	618500.00
	Composite rate per Each	Rs.	618,500.00 Say	618,500

**(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)
External**

DESCRIPTION OF ITEM:

**Item No 9.9 Motor Rewinding of 25hp
Motor Rewinding of 25hp**

Detail	Unit Rate (MKS System) per No			Amount (Rs.)
	Qty	Rate	Per Unit	
<u>Analysis for 1 No.</u>				
(A) MATERIAL				
a Motor Rewinding of 25hp (Average 12 Kg Copper + Labour Charges)	1.0	Each	50,000 No	50,000
b Accessories				
Total				50,000
Contractor Profit 20 Percent				10,000
Total Cost of Part A				60,000
<u>LABOUR</u>				
LB-035 Electrician		Nos.	1,400 per day	-
LB-061 Helper		Nos.	1,050 per day	-
Sub Total (B)				-
Contractor's Profit & Overhead 20 Percent				-
Grand Total Rs.(A+B)				60,000
<u>ITEM RATES</u>				
Labour rate per No	Rs.		- Say	-
Composite Rate per No	Rs.		60,000 Say	60,000
Composite rate per No	Rs.		60,000 Say	60,000

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)

Rehabilitation of Existing

DESCRIPTION OF ITEM:

Item No 9.13 Providing, installing, testing & commissioning of Centrifugal Pump of 2.0 Cusec Capacity with 120 feet head of KSB or equivalent manufacturer complete in all respect as per instructions of the Engineer.

i) Capacity 2 Cusec, head 120 feet

Detail	Unit Rate (MKS System) per No		
	Qty	Rate Per Unit	Amount (Rs.)
Analysis for Each			
(A) MATERIAL			
MR i) Capacity 2 Cusec, head 120 feet	1.00 Each	1,530,000 Each	1,530,000
Transportation @5% of material			
Total Contractor Profit 0 Percent			1,530,000
Total Cost of Part A			1,530,000
LABOUR			
L.S Charges for Civil & Electrical Works	0.00 Nos.	40,000.00 Per Job	-
Sub Total (B)			-
Contractor's Profit & Overhea 20 Percent			-
Grand Total Rs.(A+B)			1,530,000
ITEM RATES			
Labour rate per Each	Rs.	- Say	-
Composite Rate per Each	Rs.	1,530,000.00 Say	1,530,000
Composite rate per Each	Rs.	1,530,000.00 Say	1,530,000

**(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)
Rehabilitation**

DESCRIPTION OF ITEM:

- Item No 9.14** P/Fixing PFI panel floor mounted cubical type with internal wiring, busbar, powder coated paint. Complete in all respect comprising of following items:
 I. Power Capacitor 10 KVAR.
 II. Magnetic Contactor
 III. Circuit breaker
 IV. power factor relay/6steps
 V. LED Indication Lights
 VI. Single Pole Circuit Breaker
 VII. Current Transformer 400/5
PFI Panel

Detail	Unit Rate (MKS System) per No		
	Qty	Rate Per Unit	Amount (Rs.)
<u>Analysis for 1 No.</u>			
(A) MATERIAL			
a PFI Pannel	1.0 Each	<u>139,785.75</u> No	139,786
b Accessories		<u>Percentage</u>	
Total			139,786
Contractor Profit 20 Percent			27,957
Total Cost of Part A			167,743
PART B			
1 Testing Commissioning & Balancing	139786 Material Price	0.01 ercentage	1,398
2 Transportation & Handling Charges	139786 Material Rate	- ercentage	-
LABOUR			
LB-035 Electrician	1.00 Nos.	1,400.00 per day	1,400
LB-061 Helper	1.00 Nos.	1,050.00 per day	1,050
Sub Total (B)			3,848
Contractor's Profit & Overhead 20 Percent			770
Grand Total Rs.(A+B)			172,360
<u>ITEM RATES</u>			
Labour rate per No	Rs.	3,847.86 Say	3,848
Composite Rate per No	Rs.	172,360.33 Say	172,360
Composite rate per No	Rs.	172,360.33 Say	172,360

**(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)
External**

DESCRIPTION OF ITEM:

Item No **9.10a** Providing and installation of MCR
MCR 65 imp.

Detail	Unit Rate (MKS System) per No				Amount (Rs.)	
	Qty	Rate Per Unit				
Analysis for 1 No.						
(A) MATERIAL						
a	MCR 65 imp.	1.0	Each	<u>18,500.00</u>	No	18500.00
b	Accessories					18500.00
	Total					3700.00
	Contractor Profit	20	Percent			22200.00
	Total Cost of Part A					
LABOUR						
LB-035	Electrician		Nos.	1,400.00	per day	0.00
LB-061	Helper		Nos.	1,050.00	per day	0.00
	Sub Total (B)					0.00
	Contractor's Profit & Overhe	20	Percent			0.00
	Grand Total Rs.(A+B)					22200.00
ITEM RATES						
	Labour rate per No		Rs.	-	Say	0.00
	Composite Rate per No		Rs.	22,200.00	Say	22200.00
	Composite rate per No		Rs.	22,200.00	Say	22200

**(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)
External**

DESCRIPTION OF ITEM:

Item No **9.10b** Providing and installation of MCR
MCR 60 imp.

Detail	Unit Rate (MKS System) per No				Amount (Rs.)	
	Qty	Rate Per Unit				
Analysis for 1 No.						
(A) MATERIAL						
a	MCR 60 imp.	1.0	Each	<u>18,333.00</u>	No	18333.00
b	Accessories					18333.00
	Total					3666.60
	Contractor Profit	20	Percent			21999.60
	Total Cost of Part A					
LABOUR						
LB-035	Electrician		Nos.	1,400.00	per day	0.00
LB-061	Helper		Nos.	1,050.00	per day	0.00
	Sub Total (B)					0.00
	Contractor's Profit & Overhe	20	Percent			0.00
	Grand Total Rs.(A+B)					21999.60
ITEM RATES						
	Labour rate per No		Rs.	-	Say	0.00
	Composite Rate per No		Rs.	21,999.60	Say	21999.60
	Composite rate per No		Rs.	21,999.60	Say	22000

**(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)
External**

DESCRIPTION OF ITEM:

Item No **9.11** Motor Rewinding of 25hp
Motor Rewinding of 25hp

Detail	Unit Rate (MKS System) per No			Amount (Rs.)
	Qty	Rate Per Unit		
Analysis for 1 No.				
(A) MATERIAL				
a Motor Rewinding of 25hp	1.0	Each	<u>200,000</u> No	200,000
b Accessories				200,000
Total				40,000
Contractor Profit 20 Percent				240,000
Total Cost of Part A				
LABOUR				
LB-035 Electrician		Nos.	1,400 per day	-
LB-061 Helper		Nos.	1,050 per day	-
Sub Total (B)				-
Contractor's Profit & Overhe: 20 Percent				-
Grand Total Rs.(A+B)				240,000
ITEM RATES				
Labour rate per No		Rs.	- Say	-
Composite Rate per No		Rs.	240,000 Say	240,000
Composite rate per No		Rs.	240,000 Say	240,000

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)
External

DESCRIPTION OF ITEM:

Item No 10.4 Providing and installation of HT Spun Pole 36'
Pole

Detail	Unit Rate (MKS System) per No			
	Qty	Rate Per Unit		Amount (Rs.)
<u>Analysis for 1 No.</u>				
(A) MATERIAL				
a Pole	1.0	Each	<u>27,636.00</u>	No 27,636
b Accessories				
Total				27,636
Contractor Profit 20 Percent				5,527
Total Cost of Part A				33,163
<u>LABOUR</u>				
LB-035 Electrician		Nos.	1,400.00 per day	-
LB-061 Helper		Nos.	1,050.00 per day	-
Sub Total (B)				-
Contractor's Profit & Overhe: 20 Percent				-
Grand Total Rs.(A+B)				33,163
<u>ITEM RATES</u>				
Labour rate per No		Rs.	-	Say -
Composite Rate per No		Rs.	33,163.20	Say 33,163
Composite rate per No		Rs.	33,163.20	Say 33,163

(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)
External

DESCRIPTION OF ITEM:

Item No 9.12 Providing and Installation of D-fuse
D-Fuse

Detail	Unit Rate (MKS System) per No		
	Qty	Rate Per Unit	Amount (Rs.)
Analysis for 1 No.			
(A) MATERIAL			
a D-Fuse	1.0 Each	8,820.00 No	8820.00
b Accessories			8820.00
Total			1764.00
Contractor Profit 20 Percent			10584.00
Total Cost of Part A			
LABOUR			
LB-035 Electrician	0.10 Nos.	1,400.00 per day	140.00
LB-061 Helper	0.10 Nos.	1,050.00 per day	105.00
Sub Total (B)			245.00
Contractor's Profit & Overhead 20 Percent			49.00
Grand Total Rs.(A+B)			10878.00
ITEM RATES			
Labour rate per No	Rs.	245.00 Say	245.00
Composite Rate per No	Rs.	10,878.00 Say	10878.00
Composite rate per No	Rs.	10,878.00 Say	10878

**(Input Material & Labour 1st Bi-annual-2023 District Bahawalnagar)
External**

DESCRIPTION OF ITEM:

Item No 10.6 P/Fixing PFI panel floor mounted cubical type with internal wiring, busbar, powder coated paint. Complete in all respect comprising of following items:
 I. Power Capacitor 20 KVAR.
 II. Magnetic Contactor
 III. Circuit breaker
 IV. power factor relay/6steps
 V. LED Indication Lights
 VI. Single Pole Circuit Breaker
 VII. Current Transformer 400/5
PFI Pannel

Detail	Unit Rate (MKS System) per No			Amount (Rs.)
	Qty	Rate Per Unit		
Analysis for 1 No.				
(A) MATERIAL				
a PFI Pannel	1.0	Each	<u>224,877.51</u> No	224,878
b Accessories			Percentage	224,878
Total				44,976
Contractor Profit 20 Percent				269,853
Total Cost of Part A				
PART B				
1 Testing Commissioning & Balancing	224878	Material Price	0.01 Percentage	2,249
2 Transportation & Handling Charges	224878	Material Rate	- Percentage	-
LABOUR				
LB-035 Electrician	1.00	Nos.	1,400.00 per day	1,400
LB-061 Helper	1.00	Nos.	1,050.00 per day	1,050
Sub Total (B)				4,699
Contractor's Profit & Overhead 20 Percent				940
Grand Total Rs.(A+B)				275,492
ITEM RATES				
Labour rate per No	Rs.	4,698.78	Say	4,699
Composite Rate per No	Rs.	275,491.54	Say	275,492
Composite rate per No	Rs.	275,491.54	Say	275,492

QUOTATIONS



JAMAL PIPE INDUSTRIES (PVT.) LTD.

Head Office: 88 - Railway Road, Lahore

U.A.N: 042 - 111 - 808 - 909

E-mail: Jamalpipe@yahoo.com

FAX: 042 - 7650808

Dated:13/06/2022

Website: www.jamalpipe.com.pk

ESTIMATED PRICE LIST OF M.S. & G.I. PIPES API 5L GRADE A & B / ASTM A53 ERW STEEL LINE PIPES SCH - 40

NOMINAL DIA		OUTER DIA (Ø)	WALL THICKNESS	M.S. PIPE		GALVANIZED PIPE	
Inches	mm			PER RFT.	PER METER	PER RFT.	PER METER
		mm	mm	Rs.	Rs.	Rs.	Rs.
½"	15	21.30	2.70	129.63	425.00	182.60	598.69
¾"	20	26.70	2.87	156.62	513.50	218.10	715.09
1"	25	33.40	3.38	232.65	762.80	324.86	1065.12
1¼"	32	42.20	3.56	315.11	1033.15	436.37	1430.73
1½"	40	48.30	3.68	376.16	1233.30	517.36	1696.26
2"	50	60.30	3.91	516.58	1693.70	708.90	2324.27
2½"	65	73.00	5.16	802.91	2632.50	1098.71	3602.34
3"	80	88.90	5.49	1049.95	3442.45	1439.05	4718.21
4"	100	114.30	6.02	1494.58	4900.25	2047.92	6714.50
5"	125	141.30	6.55	2023.69	6635.05	2767.86	9074.96
6"	150	168.30	7.11	2627.33	8614.20	3589.21	11767.90
8"	200	219.10	8.18	3955.42	12968.60	5398.57	17700.23
10"	250	273.00	9.27	5606.56	18382.15	7645.19	25066.20
12"	300	323.80	10.31	7776.35	25496.24	10472.33	34335.50
14"	350	355.60	11.10	9486.38	31102.88	13250.25	43443.46
16"	400	406.40	12.70	12403.88	40668.44	17320.93	56789.94

NOMINAL DIA		STD SCH	WALL THICKNESS	M.S. PIPE		GALVANIZED PIPE	
Inches	mm			PER RFT.	PER METER	PER RFT.	PER METER
			mm	Rs.	Rs.	Rs.	Rs.
6"	150	SCH-20	5.00	1871.82	6137.10	2559.18	8390.76
			6.35	2357.56	7729.70	3223.43	10568.62
8"	219.1	SCH-20	5.00	2454.20	8046.55	3351.60	10988.86
		SCH-30	7.00	3403.78	11159.95	4648.56	15241.18
10"	273	SCH-20	5.00	3080.50	10100.00	4295.25	14082.79
		SCH-30	8.00	3883.03	12731.25	5299.07	17374.01
12"	323.8	SCH-20	5.00	3840.00	12590.16	5310.50	17411.48
		SCH-30	6.35	4850.00	15901.64	6533.36	21420.84
		STD	8.00	6078.48	19929.44	8188.32	26846.94
14"	355.6	SCH-20	9.50	7183.92	23553.84	9677.58	31729.77
		SCH-10	6.35	5501.73	18038.45	7686.35	25201.14
		SCH-20	8.00	6898.55	22618.20	9637.94	31599.81
16"	406.4	SCH-30	9.50	8156.68	26743.20	11395.79	37363.24
		SCH-10	6.35	6301.98	20662.22	8801.85	28858.51
		SCH-20	8.00	7906.73	25923.72	11043.31	36207.58
18"	457.2	SCH-30	9.50	9353.90	30668.52	13064.64	42834.90
		SCH-10	6.35	7102.23	23285.99	9917.35	32515.89
		SCH-20	8.00	8914.93	29229.29	12448.66	40815.27
		STD	9.50	10551.12	34593.85	14733.50	48306.56
SCH-30	11.10	12284.10	40275.74	17153.52	56241.03		
	SCH-XS	12.70	14004.38	45915.98	19555.84	64117.51	

Note:-

- The above prices are subject to change without prior notice.
- Delivery ex-works Lahore, without sockets.
- The above prices are inclusive of Sales Tax.



Angular Power Automation

Trusted Source of Power & Automation Solutions

NTN: 7263240-6

Page 01/02

M/S: Asian Consultant

Attn.:

Address:

Inquiry Ref: PR#

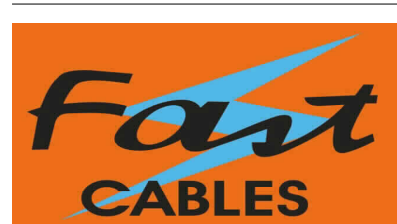
Name Ijaz Ghafoor
Mobile 0300-7788173
E-mail ijaz@angular.com.pk
Ourreference APA-25-22
Date 08-07-2022

Dear Sir,

We thank you very much for your inquiry and pleased to submit our best offer as under.

Sr.#	Description	Qty.	Unit.	Unit Rate	Total Rate
1	MDB	1	No.	410,550	410,550
Sub Total					410,550
17% Sales Tax					69,794
Grand Total					480,344
Commercial Terms & Conditions					
1	All Prices are net in Pak Rupees, valid for above mention quantity.				
2	Payment will be 50% advance and 50% before delivery.				
3	Above quoted prices based on current import duties/taxes any variation in import duties/taxes or currency rates may impact on the Prices.				
4	Above quoted prices calculated based on each item quantity in case other party/buyer interested to go on partial order before partial order let discuss with us to avoid any discrepancy between both parties.				
Delivery					
1	01 week after PO Confirmation.				
Validity					
1	04 weeks from the date of quotation.				
We trust you will find our offer in line with your requirement, still if you have any quarry, please don't hesitate to contact us.					

Best Regards
Ijaz Ghafoor
0300-7788173



FAST CABLES LTD

www.fast-cables.com UAN:111-000-343

Quotation

Attention : Mr. Muneeb
 Customer : ASIAN CONSULTING ENGINEERS
 Address : 251-A HBFC FAISAL TOWN, LAHORE
 Contact : 0321 6957100 Fax # :
 Email :

Date : 27-July-22
 Ref No : 2109-01B-QTN-0715
 Customer inquiry :
 Project :
 City : Lahore

Dear Sir,
 Thank you for your inquiry. Please find below detail of our offer:

Ref.#	Sr.#	Item Description	UoM	Qty.	Rate	Amount
01	1	10MM SQ 4/C CU/PVC/PVC 600/1000 V (BLACK)	MTR	1.00	1,064.25	1,064.25
02	2	35MM SQ 4/C CU/PVC/PVC 600/1000 V (BLACK)	MTR	1.00	3,312.00	3,312.00
03	3	70MM SQ 4/C CU/PVC/PVC 600/1000 V (BLACK)	MTR	1.00	6,429.00	6,429.00
04	4	150MM SQ 4/C CU/PVC/PVC 600/1000 V (BLACK)	MTR	1.00	13,812.75	13,812.75
05	5	630MM SQ S/C CU/PVC/PVC 600/1000 V (BLACK)	MTR	1.00	14,663.25	14,663.25
06	6	95MM SQ 3/C CU/PVC/PVC 600/1000 V (BLACK)	MTR	1.00	6,713.25	6,713.25
07	7	10MM SQ 3/C CU/PVC/PVC 600/1000 V (BLACK)	MTR	1.00	813.00	813.00
08	8	1.5MM SQ S/C CU/PVC/INS STRANDED (7 - STAND) 450/750V (RED)	MTR	1.00	40.50	40.50
09	9	2.5MM SQ S/C CU/PVC/INS STRANDED(7-STD) 450/750V (RED)	MTR	1.00	70.50	70.50
10	10	6.0MM SQ S/C CU/PVC/INS 450/750 V (RED)	MTR	1.00	143.25	143.25
11	11	10MM SQ S/C CU/PVC/INS 450/750 V (GREEN)	MTR	1.00	237.00	237.00
12	12	16MM SQ S/C CU/PVC/INS 450/750 V (RED)	MTR	1.00	366.75	366.75
13	13	35MM SQ S/C CU/PVC/INS 450/750 V (BLACK)	MTR	1.00	793.50	793.50
14	14	70MM SQ S/C CU/PVC/INS 450/750 V (YELLOW)	MTR	1.00	1,547.25	1,547.25
15	15	300MM SQ S/C CU/PVC/INS 450/750 V (RED)	MTR	1.00	6,924.00	6,924.00
Total:				15.00		56,930.25
Amount Excluding S.T:						56,930.25
Sale Tax 20%						11,386.05
Amount Including S.T:						68,316.30

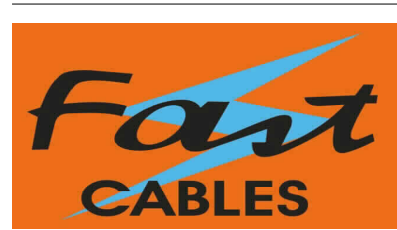
Terms and Conditions:

Quality & Standard: All Cables are being manufactured as per relevant British Standard Specification (BSS) and IEC.
Quality Model System: Our Quality model system is ISO-9001-14001,18001 CE Certified.
Manufacturing excellence: MV cables are being manufactured using advanced dry curing technology called CCV (Catenary Continuous Vulcanization) with real time special monitoring equipment .
Cable life: As per IEC (Approximately 40 Years) comparison between both (Dry cure peroxide & Moisture cure Sioplas) technologies is attached for reference.
Availability: Negotiable.
Government Taxes: Above Prices are inclusive of Sales Tax.
Income Tax/Sales Tax: Fast Cables Limited is exempted from deduction of Withholding Income Tax U/S 153(1)(a) of the Income Tax Ordinance 2001 and it is also exempted from Withholding Sales Tax by virtue of SRO 586(I)/2017
Packing: (Packing Length) ±5% per individual drum length and on total quantity. The actual length will be invoiced.
Validity: This offer is valid for 07 days there after subject to our confirmation.



Head Office: 192 - Y Block, Commercial Area, DHA, Lahore

Regional Offices: Lahore, Karachi, Islamabad, Sahiwal, Multan, Rahim Yar Khan, Peshawar, Sialkot, Faisalabad, Gujranwala



FAST CABLES LTD

www.fast-cables.com ☎ UAN:111-000-343

Ref .#	Sr. #	Item Description	UoM	Qty .	Rate	Amount
Force Majeure:		Supplier shall not be liable for delivery delay due to force majeure such as fire, flood, earthquake, strike, lockout, civil unrest and other circumstances beyond its control.				
Payment:		50% Advance with P.O and balance 50% Before Delivery after complete inspection and testing at Fast Cables Limited Laboratory premises.				
Delivery:		Ex our factory.				

Thank you for selecting Fast Cables. We look forward to providing you the best quality product. Please let us know if any further information is required.

Sincerely Yours
 ALLAH WASAYA MALIK
 Assistant Area Sales Manager Housing
 923208080029










Head Office: 192 - Y Block, Commercial Area, DHA, Lahore

Regional Offices: Lahore, Karachi, Islamabad, Sahiwal, Multan, Rahim Yar Khan, Peshawar, Sialkot, Faisalabad, Gujranwala

Customer
Asian Consulting Engineers Pvt. Ltd.
 C-03, Jhelum Block, Green Forts II
 Lahore, Pakistan

DATE 21-July-22
Reference E22-U057
Quotation valid until: 19-Sep-22
NTN 3533073
STRN 3277876201075

Project:
Subject: LED Lights

Sr #	DESCRIPTION	PICTURE	QUANTITY	UNIT PRICE	AMOUNT
	Surface LED Panel, 18w , 1800 lumens, 100lm/w efficiency, Colour 6500K, CRI>70, 30000 Life Hours, IP20, Brand: Opine, CA		72.00	1,800.00	129,600.00
	LED Wall Light, 16w , 1600 lumens, 100lm/w efficiency, Colour 6500K, CRI>70, 30000 Life Hours, IP20, Brand: Opine, CA		9.00	4,800.00	43,200.00
	LED Tube Light, 36w , 1800 lumens, 100lm/w efficiency, Colour 6500K, CRI>70, 30000 Life Hours, IP20, Brand: Opine, CA		26.00	1,650.00	42,900.00
	LED Mirror Light, 600 mm, 8w , 800 lumens, 100lm/w efficiency, Colour 6500K, CRI>70, 30000 Life Hours, IP43, Brand: Opine, CA		7.00	1,050.00	7,350.00
	LED Flood Light, 50w , 6500 lumens, 130lm/w efficiency, Colour 6500K, CRI>70, 50000 Life Hours, IP65, IK10, 90-305v Voltage Range, symmetrical Beam angle Brand: Opine, CA		19.00	5,800.00	110,200.00
	LED Post Top Light, 20w , 6500 lumens, 100lm/w efficiency, Colour Warm 3000K, CRI>70, 30000 Life Hours, IP65, IK10, Brand: Opine, CA		5.00	5,200.00	26,000.00
	LED Bulkead Light, 18w , 6500 lumens, 100lm/w efficiency, Colour Warm 3000K, CRI>70, 30000 Life Hours, IP65, IK04, Brand: Opine, CA		4.00	3,800.00	15,200.00

Total Amount	374,450.00
GST	63,656.50
Net Amount inc. Taxes	438,106.50

Warranty: 3 Year as per standard terms of manufacturer.
Delivery: 12-14 working weeks
Payment Terms: 50% Advance with firm order confirmation, Balance 50% at delivery of material.

Terms & Conditions

1. The amount is inclusive of all taxes.
2. The amount is estimated at USD = 172, variations will be adjust at the time of issuing of PO.
3. The quotation includes the delivery charges.
4. Price Quoted for Single Shipment unless discussed otherwise.
5. Advance Received is not Refundable and PO cancellation cost is 25% of total value
6. Our offer is subjected to Force Majure Clause.

For Further Querries, Please contact the undersigned.

Yours Faithfully,

Umair Rafique


Manager Operations

Contact: 0321 4347202

Email: umair.rafique@enervices.com

ENERVICES
LIGHTING & ENGINEERING MERCHANDISE

info@enervices.com | www.enervices.com | +92 304 4679557
152-A, Second Floor, Sector C Commercial, Bahria Town, Lahore





OFFICE OF THE DIRECTOR (PROCUREMENT) DIST: MEPCO LTD:

Mepco Complex, Wapda Colony Khanewal Road, Multan

Tel: 061-9220279, 9210380 Ext: 83, Email: dpdmepco@gmail.com, Fax No. 061-6776314

No. 19504/18



Chief Engineer (P&E)
MEPCO Ltd. Multan

All Managers (Operation)
MEPCO Ltd.

M. Garh

Project Director (Const)
MEPCO Ltd. Multan

Dated

O.D.T. ✓	2022
D.C.M	
A.D (HR)	
A.D (CSC)	
T.A	
Diary No/Date	4450
30 APR 2022	

Sub: PRICE BULLETIN OF STORE ITEMS IN RESPECT OF DIRECTOR (PROCUREMENT) DISTRIBUTION MEPCO W.E.F 01.05.2022.

The price list of distribution material (without GST) on the basis of current tender / Purchase order rates of MEPCO is enclosed herewith for information & further necessary action at your end please.

DA: As Above

[Signature]
DIRECTOR (PROC) DIST:
MEPCO LTD. MULTAN

Copy to: -

1. General Manager (Technical) MEPCO Ltd. Multan for information please.
2. General Manager (Operation) MEPCO Ltd. Multan for information please.
3. Finance Director MEPCO for information please.
4. *Addr. D.C. (M.M) for i-formatin.*

Enclst. No. 10715-19 Dated 30/04/2022

Forwarded to:

All XBNs (Op) under MEPCO Circle M/Garh
For implementation from 01.05.2022.

[Signature]
Superintending Engineer
MEPCO (OP) Circle M.Garh

Page 11 of 11

RATE LIST OF DISTRIBUTION MATERIAL W.E.F 01.05.2022 →

Sr. No.	Description of Item	Unit	Rate per unit without GST (Rs.)	Rate per unit + 12% Store Charges
1	25 kva T/Former	No.	313028	350591
2	50 kva T/Former	No.	445211	498636
3	100 kva T/Former	No.	672000	752640
4	200 kva T/Former	No.	1099901	1231889
5	Dog Conductor	km	357000	399840
6	Rabbit Conductor	km	154035	172519
7	Osprey Conductor	km	753900	844368
8	Wasp Conductor	km	251475	281652
9	Ant Conductor	km	145399	162847
10	PVC 2/C 7/.052 10mm2	km	99855	111838
11	Cable S/C 11 kv 500 MCM	Km	1962816	2198354
12	Cable 3/C 2/0 AWG	Km	3202500	3586800
13	Cable 3/C 4/0 AWG	Km	4567500	5115600
14	PVC S/C 19/.052	Km	94710	106075
15	PVC S/C 19/.083	Km	246750	276360
16	PVC S/C 37/.083	Km	430500	482160
17	PVC 4/C 25mm 19/.052	km	456056	510783
18	PVC 4/C 70mm 19/.083	km	836744	937153
19	PVC 4/C 120mm 37/.83	km	1519863	1702247
20	Spool Insulator	No.	158	176
21	Pin Insulator	No.	574	643
22	Disc Insulator	No.	2095	2346
23	HT Spun Poles 36'	No.	24675	27636
24	LT Spun Poles 31'	No.	19428	21760
25	HT Spun Poles 40'	No.	42000	47040
26	HT Spun Poles 45'	No.	54705	61270
27	HT Steel Structure 34'-8"	No.	59625	66780
28	LT Steel Structure	No.	38220	42806
29	HT Steel Structure 40'	No.	105000	117600
30	HT Steel Structure 45'	No.	168000	188160
31	HT Steel Structure 58'	No.	304500	341040
32	Stay Wire	Kg	242	270
33	S/Phase Static Meters	No.	1982	2220
34	HT TOU Meters	No.	16800	18816
35	LT TOU Meters	No.	13650	15288
36	3-P, TOD Meters Static	No.	9975	11172
37	D-Fuse Fittings	No.	7875	8820
38	Fuse Holder	No.	4237	4745
39	Fuse -3k	No.	420	470
40	Fuse -6k	No.	420	470
41	Fuse -10k	No.	420	470
42	Fuse -15k	No.	420	470
43	Fuse -20k	No.	431	482
44	CTs 100/5 Amp	No.	6741	7550
45	CTs 200/5 Amp	No.	5565	6233
46	CTs 400/5 Amp	No.	4442	4974
47	CTs 800/5 Amp	No.	4043	4528
48	Double Axle Trolley	No.	577500	646800
49	ATB A-Type 100/5	No.	35805	40102
50	ATB A-Type 200/5	No.	45975	51492
51	ATB A-Type 400/5	No.	48075	53844
52	ATB A-Type 800/5	No.	51225	57372
53	11 kv Indoor T/Kit for 3/C AWG	No.	18900	21168

Sr. No.	Description of Item	Unit	Rate per unit without GST (Rs.)	Rate per unit + 12% Store Charges
54	11kv Outdoor T/Kits for 3/C AWG	No.	23100	25872
55	11 kv Indoor T/Kit for S/C 500 MCM Cable	No.	8400	9408
56	11 kv Outdoor T/Kit for S/C 500 MCM	No.	11550	12936
57	11 kv Un-Switched Capacitor	Set	236250	264600
58	LT Capacitor 5 KVAR	No.	5250	5880
59	LT Capacitor 7.5 KVAR	No.	9450	10584
60	LT Capacitor 10 KVAR	No.	8610	9643
61	LT Capacitor 12.5KVAR	No.	9240	10349
62	LT Capacitor 15 KVAR	No.	10710	11995
63	LT Capacitor 20 KVAR	No.	11445	12818
64	Single Structure P.Form	No.	14616	16370
65	Double Structure P.Form	No.	26025	29148
66	Stay Rods	No.	4723	5290
67	Earth Rod	No.	1633	1829
68	D-Shackle Assembly	No.	393	440
69	Stay Strips	No.	410	459
70	Eye Nuts	No.	212	238
71	Nuts & Bolts 2x5/8"	No.	95	106
72	Nuts & Bolts 6x3/8"	No.	121	135
73	Nuts & Bolts 8x5/8"	No.	170	191
74	Nuts & Bolts 9x5/8"	No.	183	205
75	Nuts & Bolts 10x5/8"	No.	205	229
76	Nuts & Bolts 12x5/8"	No.	252	282
77	Nuts & Bolts 14x5/8"	No.	252	282
78	DA-Bolt -12"	No.	410	459
79	DA-Bolt -14"	No.	441	494
80	DA-Bolt -20"	No.	473	529
81	DA-Bolt -22"	No.	483	541
82	PG Connector S-117	No.	221	247
83	PG Connector S-157	No.	231	259
84	PG Connector T-110	No.	431	482
85	PG Connector T-155	No.	536	600
86	PG Connector T-150	No.	509	570
87	PG Connector T-220	No.	788	882
88	Steel X-Arms	No.	8925	9996
89	Pins for Steel X-Arms	No.	788	882
90	Anchor Shackle	No.	263	294
91	Deadend Clamp (Osp)	No.	1442	1615
92	Deadend Clamp (Dog)	No.	840	941
93	Deadend Clamp LC-10	No.	357	400
94	Deadend Clamp LC-16	No.	546	612
95	Knee Bracing	No.	300	336
96	Wooden Cross Arms	No.	3675	4116
97	Pin for Wooden X-Arms	No.	630	706
98	Steel X-Arm for D.F.F	No.	5775	6468
99	Square Washer	No.	95	106
100	G.I Thimble	No.	104	116
101	AMR Meter	No.	15750	17640
102	Ariel Bundle Cable 50mm ²	km	630000	705600
103	Ariel Bundle Cable 95mm ²	km	997815	1117553


 DIRECTOR (PROC) DIST:
 MEPCO LTD. MULTAN

PRICE LIST

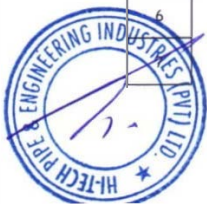
HIGH DENSITY POLYETHYLENE PIPE (PE-100)

WATER APPLICATION

Conforming to ISO-4427, ISO-1167 DIN 8074, 8075, PS 3580: 1994 & DVS 2207-1

Effective from January 2022

S.No	Category	Size Description	Price per/piece(Rs)			
			PN-8	PN-10	PN-12.5	PN-16
1	 <p>TEE</p>	63 x 63 x 63 mm	660	825	989	1319
2		75 x 75 x 75 mm	935	1169	1403	1870
3		90 x 90 x 90 mm	1341	1676	2012	2682
4		110 x 110 x 110 mm	1986	2483	2979	3972
5		125 x 125 x 125 mm	2559	3199	3838	5118
6		160 x 160 x 160 mm	4175	5219	6263	8351
7		180 x 180 x 180 mm	5299	6624	7949	10598
8		200 x 200 x 200 mm	6517	8146	9775	13034
9		225 x 225 x 225 mm	8249	10312	12374	16499
10		250 x 250 x 250 mm	10163	12704	15245	20326
11		315 x 315 x 315 mm	16129	20161	24193	32258
12		355 x 355 x 355 mm	21189	26486	31783	42378
13		400 x 400 x 400 mm	25922	32403	38884	51845
14		450 x 450 x 450 mm	32831	41038	49246	65661
15		500 x 500 x 500 mm	33200	41500	49801	66401
16		560 x 560 x 560 mm	41645	52057	62468	83291
17		630 x 630 x 630 mm	52736	65920	79105	105473
18		355 x 355 x 225 mm	35625	40500	48096	60795
19		355 x 355 x 315 mm	58524	63000	72478	86636
20		400 x 400 x 355 mm	67324	71000	85849	94466
21		450 x 450 x 400 mm	159656	174000	194532	204515
22		500 x 500 x 450 mm	164185	186815	206582	227443
1		63 x 63 x 63 x 63 mm	725	906	1087	1450
2		75 x 75 x 75 x 75 mm	1025	1281	1537	2049
3		90 x 90 x 90 x 90 mm	1479	1848	2218	2958
4		110 x 110 x 110 x 110 mm	2194	2743	3291	4388
5		125 x 125 x 125 x 125 mm	2793	3492	4190	5587
6		160 x 160 x 160 x 160 mm	4572	5715	6858	9143
		180 x 180 x 180 x 180 mm	5693	7116	8539	11386




PRICE LIST

HIGH DENSITY POLYETHYLENE PIPE (PE-100)

WATER APPLICATION

Conforming to ISO-4427, ISO-1167 DIN 8074, 8075, PS 3580:1994 & DVS 2207-1

Effective from Jan 2021

S.No	Category	Size Description	Price per/piece(Rs)			
			PN-8	PN-10	PN-12.5	PN-16
8	CROSS TEE 	200 x 200 x 200 x 200 mm	7133	8916	10700	14266
9		225 x 225 x 225 x 225 mm	9047	11308	13570	18093
10		250 x 250 x 250 x 250 mm	11086	13858	16629	22172
11		315 x 315 x 315 x 315 mm	17620	22025	26430	35240
12		355 x 355 x 355 x 355 mm	22414	28017	33621	44828
13		400 x 400 x 400 x 400 mm	28329	35411	42494	56658
14		450 x 450 x 450 x 450 mm	35878	44847	53816	71755
15		500 x 500 x 500 x 500 mm	44267	55334	66401	88534
16		560 x 560 x 560 x 560 mm	55527	69409	83291	111054
17		630 x 630 x 630 x 630 mm	70315	87894	105473	140630
18		710 x 710 x 710 x 710 mm	114167	140051	170795	227727
19		800 x 800 x 800 x 800 mm	144699	177585	216638	288851
20		900 x 900 x 900 x 900 mm	183099	224628	274466	365954
21		1000 x 1000 x 1000 x 1000 mm	226208	276456	334284	445711
22	1200 x 1200 x 1200 x 1200 mm	325580	382420	487443	649924	



Notes:

- * All Prices are inclusive of 17% Sales Tax
- * All Prices are Ex-Factory.
- * Any Variation in government levies & taxes shall be in Buyer's account.
- * Above prices can be revised without prior notice.



PRICE LIST FOR ELBOW
 HIGH DENSITY POLYETHYLENE PIPE (PE-100)
 WATER APPLICATION
 CONFORMING TO ISO-4427, ISO-1167 DIN 8074, 8075, PS 3580:1994 & DVS 2207-1

Effective from Jan 2021

S.No	Category	Size	Price per/piece(Rs)			
			PN-8	PN-10	PN-12.5	PN-16
1	 45° ELBOW	63 mm	440	550	660	880
2		75 mm	623	779	935	1247
3		90 mm	894	1118	1341	1788
4		110 mm	1324	1655	1986	2648
5		125 mm	1706	2132	2559	3412
6		160 mm	2784	3480	4175	5567
7		180 mm	3533	4416	5299	7065
8		200 mm	4345	5431	6517	8689
9		225 mm	5500	6874	8249	10999
10		250 mm	6775	8469	10163	13551
11		315 mm	10753	13441	16129	21505
12		355 mm	14126	17657	21189	28252
13		400 mm	17282	21602	25922	34563
14		450 mm	21887	27359	32831	43774
15		500 mm	27667	34584	41500	55334
16		560 mm	34705	43381	52057	69409
17		630 mm	43947	54934	65921	87894
18		710 mm	57084	70025	85397	113863
19		800 mm	72349	88792	108319	144425
20		900 mm	91549	112314	137233	182977
21		1000 mm	113104	138813	167142	222856
22		1200 mm	162790	191210	243722	324962
1	 90° ELBOW	63 mm	550	687	825	1099
2		75 mm	779	974	1169	1559
3		90 mm	1118	1397	1676	2235
4		110 mm	1655	2069	2483	3310
5		125 mm	2132	2666	3199	4265
6		160 mm	3480	4349	5219	6959
7		180 mm	4416	5520	6624	8832
8		200 mm	5431	6788	8146	10861
9		225 mm	6874	8593	10312	13749
10		250 mm	8469	10587	12704	16938
11		315 mm	13441	16801	20161	26882
12		355 mm	17657	22072	26486	35315
13		400 mm	21602	27002	32403	43204
14		450 mm	27359	34199	41038	54718
15		500 mm	33201	41501	49801	66401
16		560 mm	41645	52057	62468	83291



PRICE LIST FOR ELBOW
HIGH DENSITY POLYETHYLENE PIPE (PE-100)
WATER APPLICATION
CONFORMING TO ISO-4427, ISO-1167 DIN 8074, 8075, PS 3580:1994 & DVS 2207-1

Effective from Jan 2021

S.No	Category	Size	Price per/piece(Rs)			
			PN-8	PN-10	PN-12.5	PN-16
17	 <p>90° ELBOW</p>	630 mm	52736	65920	79105	105473
18		710 mm	71354	87532	106747	142329
19		800 mm	90437	110991	135399	180532
20		900 mm	114437	140392	171541	228722
21		1000 mm	141380	173516	208927	278570
22		1200 mm	203487	239013	304652	406203

Notes:

- * All Prices are inclusive of 17% Sales Tax
- * All Prices are Ex-Factory.
- * Any Variation in government levies & taxes shall be in Buyer's account.
- * Above prices can be revised without prior notice.





PRICE LIST FOR REDUCER

HIGH DENSITY POLYETHYLENE PIPE (PE-100) For Water

Conforming to ISO-4427 & DVS 2207-1

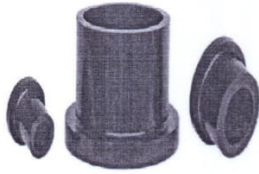
Effective from Jan 2021

S.No	REDUCER		Price per/piece(Rs)			
	From	To	PN-8	PN-10	PN-12.5	PN-16
1	110	90	1519	1595	1754	1930
2	160	90	3291	3456	3801	4181
3	160	110	3291	3456	3801	4181
4	200	160	5063	5316	5848	6433
5	225	160	5063	5316	5848	6433
6	225	180	5063	5316	5848	6433
7	250	160	8228	8639	9503	10453
8	250	200	8228	8639	9503	10453
9	315	200	12658	13291	14620	16082
10	315	250	12658	13291	14620	16082
11	355	250	16456	17278	19006	20907
12	355	315	16456	17278	19006	20907
13	400	250	20253	21266	23392	25732
14	400	315	20253	21266	23392	25732
15	400	355	20253	21266	23392	25732
16	450	315	26582	27911	30703	33773
17	450	355	26582	27911	30703	33773
18	450	400	26582	27911	30703	33773
19	500	315	31646	33228	36551	40206
20	500	355	31646	33228	36551	40206
21	500	400	31646	33228	36551	40206
22	500	450	31646	33228	36551	40206
23	560	355	40506	42532	46785	51463
24	560	400	40506	42532	46785	51463
25	560	450	40506	42532	46785	51463
26	560	500	40506	42532	46785	51463
27	630	400	51899	54494	59943	65937
28	630	450	51899	54494	59943	65937
29	630	500	51899	54494	59943	65937
30	630	560	51899	54494	59943	65937

Notes:

- * All Prices are inclusive of 17% Sales Tax
- * All Prices are Ex-Factory.
- * Any Variation in government levies & taxes shall be in Buyer's account.
- * Above prices can be revised without prior notice.





PRICE LIST (Stab End)

HIGH DENSITY POLYETHYLENE PIPE (PE-100)

WATER APPLICATION

Conforming to ISO-4427& DVS 2207-1

Effective from Jan 2021

S.No	SIZE (mm)	Price per/piece(Rs)			
		PN-8	PN-10	PN-12.5	PN-16
1	110	1616	2020	2424	3232
2	125	2072	2590	3108	4144
3	160	3386	4233	5079	6772
4	180	4339	5424	6509	8679
5	200	5281	6601	7921	10561
6	225	6690	8362	10034	13379
7	250	8229	10286	12343	16458
8	280	12658	13924	15316	20422
9	315	13065	16332	19598	26131
10	355	17713	22141	26569	35425
11	400	20998	26248	31497	41997
12	450	26593	33241	39889	53185
13	500	32809	41011	49213	65617
14	560	41157	51446	61736	82314
15	630	52112	65140	78169	104225
16	710	55362	66434	79721	106295
17	800	62380	74856	89827	119769
18	900	70177	84213	101055	134740
19	1000	77975	93570	112284	149711
20	1200	93570	112284	134740	179654

Notes:

- * All Prices are inclusive of 17% Sales Tax
- * All Prices are Ex-Factory.
- * Any Variation in government levies & taxes shall be in Buyer's account.
- * Above prices can be revised without prior notice.



Asian Consulting Engineers
Lahore

Our Ref: MEA-12745(7)
Date: 26-07-22

Subject: Quotation of Siemens Vertical V 1 Motor for Deep Well Turbine Pump

Dear Sir,
As required, we are pleased to submit our quotation for the following item:-

**20HP/4P V1 Siemens Motor for Deep well Turbine Pump.
Budgetary Unit Price = Rs. 560,500/- including 17% GST**

Commercial Terms:

Payment : 100% Advance
Delivery : 6-8 Weeks after confirm order and advance payment.
Validity : 30 Days.

Thanking you & assuring you of our best services

Yours faithfully,
For KSB Pumps Company Limited



Azhar Saeed
Dy. Manager Sales

QUOTATION
Vertical Line Shaft Turbine Pump
ALTA

Asian Consulting Engineers
Lahore

Project : PMDFC Project (Package -4)

Ref:	Telephonic	Date	26.07.22	Our Ref:	12745(2)
No. of Pumps:	01	Pump Type	ALTA 260.60/5	Date	26.07.22

Capacity	0.50 cusec	Max. O.D of Bowl	10.23
Pump total head	180 FT	I.D tube well	12 inch
Bowl Assembly Head		Length of strainer	
Speed	1450 rpm	Length of suction pipe	
Bowl Input		Length of bowl assembly	
Line Shaft loss		Length of column pipe	50 ft
Pump Input		Length of Top pipe	1 ft
Prime Mover (SIEM V-1) 20 HP/4Pole		Total Length of column	51 ft
		Total length of pump	

Material Specifications

Pump Assembly

Bowls	Cast Iron
Impellers	Cast Iron
Wearing ring	Cast Iron
Shaft	Stainless Steel
Shaft Sleeves	Bronze
Bearing	Bronze

Column pipe assembly

column pipe	Steel
Shaft	Carbon Steel
Shaft Sleeve	Bronze
Shaft couplings	Steel
Bearings	Rubber Lined
Bearing retainer	Cast Iron
Column pipe coupling	Cast Iron
Top shaft	Stainless Steel

Component parts of each pumping unit

Pump assembly of	5	stages with mixed flow type impeller full dia	
Column assembly of	4	inches ID. With flanged joints each 10 ft length	5 set
		each 5 ft length	sets
		each 2m length	sets
		and one top set	1 feet length
		shaft dia	25 mm
Discharge head with	4	inches discharge branch type	1342 A flange BSS with Priming Tank

Price of pumping unit as specified above

ACCESSORIES:

- (1) Motor Control Unit ASD-20 Make KSB Included
- (2) Cast Iron Sluice & Reflux Valve 4 inch Included
- (3) Mech. & Electrical Installation with in the pump house, w/o any civil works Included

Budgetary Price Per Set inclusive of 17% GST

Rs. 2,475,584

Commercial Terms & Condition:

Delivery at:	Site.
Delivery Time:	10 to 12 Weeks after receipt of firm order
Validity:	30 days
Terms of Payment:	50% Advance, balance before delivery

For KSB Pumps Company Limited

Sales Department

Working out the price of above mentioned engineered product should be acknowledged as KSB's prerogative. This Quotation will have no bearing on previously quoted prices anywhere or on prices to be quoted in future to any prospective client. After expiry of quotation's validity KSB reserve the right to change price as a result of market forces/manufacturing variables.

Procuring agency is requested to comply with all PPRA rules as it is its responsibility.

QUOTATION
Vertical Line Shaft Turbine Pump
ALTA

Asian Consulting Engineers
Lahore

Project : PMDFC Project (Package -4)

Ref:	Telephonic	Date	26.07.22	Our Ref:	MEA 12745(1)
No. of Pumps:	01	Pump Type	ALTA 260.60/4	Date	26.07.22

Capacity	0.50 cusec	Max. O.D of Bowl	10.23
Pump total head	150 FT	I.D tube well	12 inch
Bowl Assembly Head		Length of strainer	
Speed	1450 rpm	Length of suction pipe	
Bowl Input		Length of bowl assembly	
Line Shaft loss		Length of column pipe	50 ft
Pump Input		Length of Top pipe	1 ft
Prime Mover (SIEM V-1)	15 HP/4Pole	Total Length of column	51 ft
		Total length of pump	

Material Specifications

Pump Assembly

Bowls	Cast Iron
Impellers	Cast Iron
Wearing ring	Cast Iron
Shaft	Stainless Steel
Shaft Sleeves	Bronze
Bearing	Bronze

Column pipe assembly

column pipe
Shaft
Shaft Sleeve
Shaft couplings
Bearings
Bearing retainer
Column pipe coupling
Top shaft

Steel
Carbon Steel
Bronze
Steel
Rubber Lined
Cast Iron
Cast Iron
Stainless Steel

Component parts of each pumping unit

Pump assembly of	4	stages with mixed flow type impeller full dia	
Column assembly of	4	inches ID. With flanged joints each 10 ft. length	5 set
		each 5 ft length	sets
		each 2m length	sets
		and one top set	1 feet length
		shaft dia	25 mm
Discharge head with	4	inches discharge branch type	1342 A flange BSS with Priming Tank

Price of pumping unit as specified above

ACCESSORIES:

- | | |
|---|----------|
| (1) Motor Control Unit ASD-15 Make KSB | Included |
| (2) Cast Iron Sluice & Reflux Valve 4 inch | Included |
| (3) Mech. & Electrical Installation with in the pump house, w/o any civil works | Included |

Budgetary Price Per Set inclusive of 17% GST

Rs. 2,382,870/-

Commercial Terms & Condition:

Delivery at:	Site.
Delivery Time:	10 to 12 Weeks after receipt of firm order
Validity:	30 days
Terms of Payment:	50% Advance, balance before delivery

For KSB Pumps Company Limited

Azhar Saeed
Sales Department

Working out the price of above mentioned engineered product should be acknowledged as KSB's prerogative. This Quotation will have no bearing on previously quoted prices anywhere or on prices to be quoted in future to any prospective client. After expiry of quotation's validity KSB reserve the right to change price as a result of market forces/manufacturing variables.

Procuring agency is requested to comply with all PPRA rules as it is its responsibility.

Quotation
Low Pressure Centrifugal Pump
ETN

Asian Consulting Engineers
Lahore

Project : PMDFC Project (Package -4)

Customer Reference	Telephonic	Dated	<u>26.07.22</u>	OUR REF:	MEA-12745(3)
No. of Pumps	<u>1</u>	Pump Type	<u>Etanorm 80-200</u>	DATE:	26.07.22

Operating Conditions

Medium (H ₂ O,OIL)	Clean Water	Temperature	20 C
Capacity	2 cusec	Specific Gravity	1
Head	120 Ft	Permissible Suction lift	10 Ft
Speed	2900 rpm	CONDITION AT SITE	Suction Lift Suction Head
Pump Input		Direction of rotation	Clockwise
Recommended drive rating	40 HP	(seen from drive end)	
Suction Flange I.D (Inch)	4"	Flange Standard	BS 10 Table D
Discharge Flange I.D (Inch)	3"		
Prime Mover (SEM/DE)	Electric Motor		

Material Specifications

Pump casing	Cast Iron	Shaft	Steel C45
Impeller	Cast Iron	Stuffing box	Cast Iron
Ball Bearing	Deep Groove Type	Shaft Sleeve	S.S

Scope of Supply

1No. Centrifugal Pump Etanorm 80-200 Duly coupled with a 40 HP/2P, 3 Phase 400 Volts
2900 RPM Siemens Horizontal Electric Motor & mounted on a common steel frame.

Motor Control Unit ASD-40 HP KSB make Included
Cast Iron Sluice & Reflux Valves 3" Included
Supervision of Mechanical Installation with in the pump house (without civil & electrical works).

Commercial Conditions

Price Basis:	Ex Site	Budgetary Unit Price Included 17% GST	
		Total Price for 01 No. Pump Set with tax	Rs. 1,530,000/-
		Grand Total	Rs. 1,530,000/-
Terms of Payment	100 % advance		
Delivery	10 to 12 weeks after the receipt of advance payment and firm order .		
Validity	30 Days.		

for KSB PUMPS COMPANY LTD

Azhar Saeed
Sales Department

Working out the price of above mentioned engineered product should be acknowledged as KSB's prerogative. This Quotation will have no bearing on previously quoted prices anywhere or on prices to be quoted in future to any prospective client. After expiry of quotation's validity KSB reserve the right to change price as a result of market forces/manufacturing variables. Procuring agency is requested to comply with all PPRA rules as it is its responsibility.

Subject to general conditions for sale and supply of goods No. 07-FT.4

Asian Consulting Engineers
Lahore

Our Ref: MEA-12745(4)
Date: 26-07-22

Subject: Quotation for Bowl Assembly of Deep Well Turbine Pump (Inquiry serial # 1 To 5)

Dear Sir,
As required, we are pleased to submit our quotation for the following item:-

**Bowl Assembly of Vertical Turbine Pump Type Alta 260.60/4
stage without Motor. Suitable for 0.5 Cusec and 150 ft. Head.
Budgetary Unit Price = Rs. 618,500/- including 17% GST**

Commercial Terms:

Payment : 100% Advance
Delivery : 6-8 Weeks after confirm order and advance payment.
Validity : 30 Days.

Thanking you & assuring you of our best services

Yours faithfully,
For KSB Pumps Company Limited



Azhar Saeed
Dy. Manager Sales

Asian Consulting Engineers
Lahore

Our Ref: MEA-12745(5)
Date: 26-07-22

Subject: Quotation for Bowl Assembly & Vertical Siemens V 1 Motor for Deep Well Turbine Pump (Inquiry serial # 6 To 15)

Dear Sir,

As required, we are pleased to submit our quotation for the following item:-

**Bowl Assembly of Vertical Turbine Pump Type Alta 260.60/5 stage with 20HP/4P V1 Siemens Motor. Suitable for 0.5 Cusec and 180 ft. Head.
Budgetary Unit Price = Rs. 1,150,500/- including 17% GST**

Commercial Terms:

Payment : 100% Advance
Delivery : 6-8 Weeks after confirm order and advance payment.
Validity : 30 Days.

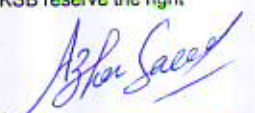
Thanking you & assuring you of our best services

Yours faithfully,
For KSB Pumps Company Limited



Azhar Saeed
Dy. Manager Sales

**Quotation
Vertical Line Shaft Turbine Pump
DWT**

Asian Consulting Engineers Lahore					
Your Ref. No.	<u>Telephonic</u>	Date	26.07.22	OUR REF:	MEA 12745(6)
No. of Pumps	<u>1</u>	Pump Size	<u>B12B /3 stages</u>	DATE:	<u>26.07.22</u>
Operating Conditions					
Medium (H2O)	Clean, clear water free from sand & chemicals.				
Capacity	<u>2.00 CUSEC</u>	Max. O.D of bowl			<u>11.5 inches</u>
Pump total head	<u>120 Ft</u>	I.D tube well			<u>14 inches min.</u>
Bowl Assembly Head	-	Length of strainer			
Speed	<u>1450 rpm</u>	Length of suction pipe			
Bowl Input		Length of bowl assembly			
Line Shaft loss		Length of column pipe			<u>10 Ft</u>
Pump Input		Length of top Pipe			<u>1 Ft</u>
Prime Mover (SIEM V-1)	<u>40 HP</u>	Total Length of Column			<u>11 Ft</u>
Material Specifications					
Pump Assembly			Column pipe assembly		
Bowls	Cast Iron	Column pipe	Steel		
Impellers	Bronze	Shaft	Carbon Steel		
Wearing Ring	Cast Iron	Shaft Sleeves	S.S		
Shaft	Stainless Steel	Shaft couplings	Steel		
Shaft Sleeves	Bronze	Bearings	Rubber Lined		
Bearings	Bronze	Bearing retainer (Ready Cast)	Cast Iron		
			Column Pipe Coupling	Flanged	
			Top Shaft	Stainless Steel	
Component parts of each pumping unit					
Pump assembly of	<u>3</u>	stages with mixed flow type impeller			
Column assembly of	<u>8</u>	inches I.D. with flanged joints	each 10 ft length	<u>1</u>	sets
			each 5 ft length		sets
			each 2 m length		sets
			and one top set	<u>1</u>	feet length
			shaft dia	<u>35</u>	mm
Discharge head with	<u>8</u>	inches discharge branch, type	VN-2030	flange BSS with	Prelubrication tank
Vertical Solid shaft electrical motor, totally enclosed fan cooled, tropically insulated, 3 phase, 50 cycles, 380/400 volts, with non-reverse ratchet, make Siemens, insulation class F and temperature rise 80°C above 40°C ambient temperature.					<u>40 HP/ 1450 rpm</u>
NOTE: Over head reservoir calculation is not included.					
Price of pumping unit as specified above					Included
ACCESSORIES					
(1) MCU type	<u>ASD-40</u>	<u>KSB Make</u>			included
(2) Mounting Clamps	<u>8 inches column</u>	<u>4 Halves</u>			included
(3) Cast iron sluice valve & reflux valve	<u>8 inches</u>				included
(4) Mechanical & Electrical installation within the pump house					included
Price Basis:	<u>Ex Site</u>	Budgetary Price/Unit including 17% GST Rs.			3,690,000/-
Delivery Period:	<u>10-12 weeks</u>				
Pyment:	<u>100% advance</u>				
Validity:	<u>30days</u>				
Working out the price of above mentioned engineered product should be acknowledged as KSB's prerogative. This Quotation will have no bearing on previously quoted prices anywhere or on prices to be quoted in future to any prospective client. After expiry of quotation's validity KSB reserve the right to change price as a result of market forces/manufacturing variables.					
Procuring agency is requested to comply with all PPRA rules as it is its responsibility.					
					for KSB PUMPS COMPANY LTD 
Subject to general conditions for sale and supply of goods No. 07-FT.4					Sales Department

Dated: 26 July 2022	ATTN: Mr. Muneeb Ahmed
TO: M/s Asian Consulting Engineers Pvt Ltd	FROM: Mr. Sannan Ahmed
Sub: Quotation for Earthing material	JC Ref: AC 260722-01SA

We are pleased to offer you our prices as under.

S.NO	BOQ#	Item Description	Brand	Qty	UOM	Net Price	Total
01	ITEM#01	Earth Rod 3m Copper Cladded Steel Rod 17.2 mm dia	DEHN	8	Nos.	12,000	96,000
02		Earth rod to conductor Clamp (B model)		8	Nos.	1,600	12,800
03		Earthing chemical Marconite 25Kg		8	Nos.	8,000	64,000
04	Earth Rod 3m Copper Cladded Steel Rod 17.2 mm dia	10		Nos.	12,000	120,000	
05	Earth rod to conductor Clamp (B model)	10		Nos.	1,600	16,000	
06	ITEM#02	Earthing chemical Marconite 25Kg		10	Nos.	8,000	80,000
07		ECP with insulator		10	Nos.	20,000	200,000
08		Concrete earth pt with inspection cover		10	Nos.	12,000	120,000

TERMS & CONDITIONS:

Net Total	708,800
GST 17%	120,496
Gross Total	829,296

(E & OE)

Scope

Our Scope is for Supply of above quoted items only.

Price alidity

15 days from the date of offer submission. For further extension in validity, our confirmation in writing is necessary.

Our prices are calculated on current date of currency parity against PKR, and today's LME. In the event of change of more than 2% in international currency rates/ currency devaluation by government/ variation in LME until final supply of order, rate difference will be on customer account.

Prices are calculated on present custom duties and government taxes. Any change in government regulation or duties and taxes at the time of import of material or during execution of order against customer's confirmed Purchase order will be on customer account.

Delivery Period

Mostly from ready stocks, balance will take 16-18 weeks after confirm PO.

Any changes / revision / addition in purchase order after confirmation, delivery date will reset accordingly.

Payment terms

100% Advance.

Force Majeure

Our offer is subject to usual Force Majeure clause.

General Sales Tax

General Sales Tax will be charged on the offered prices adhering to the law of Government of Pakistan. [Note: Sales Tax @ 17% will charge to you if you are a registered person (under Sales Tax Act, 1990). If you are unregistered person (as per law) then additional 3% will charge as further tax.]

Our supplies are excluded from SWHT under SRO 897 of 2013 (Point (c)) issued by FBR on October 4, 2013 as the commercial importers who paid value addition tax on such goods at the time of import as prescribed under Chapter X of the Sales Tax Special Procedure Rules, 2007 are excluded from the provision of these rules and the Sales Tax Special (Withholding) Rules, 2007 shall not be applicable on such supplies.

Income Tax

Our supplies are exempted from WHT u/s 153(5) of the Income Tax Ordinance, 2001 as all taxes are duly paid at import stage u/s 148 against the supplies made to you by us.

Warranty

One-year warranty against any manufacturing defects. Our liability excludes natural wear & tear, defects arising after transfer of risk owing transport risks, installation, operation, maintenance contrary to manuals and instructions, mishandling or negligence on part of the customer.

Upon receipt of customer's intimation, we shall within adequate time repair or replace, at our option, the defective part, to bring the product in working condition.

Best Regards,

Sannan Ahmed

Sr. Engineer Product Marketing & Sales

SHAFISONS ENGINEERING (PVT) LIMITED

HEAD OFFICE: 37-P BLOCK MODEL TOWN EXTENSION, LAHORE

PHONE NO. +92 42 35172409-11 FAX NO. +92 42 35172408

E-MAIL: enquiries@betapipes.com.pkURL: www.betapipes.com.pk**PRICE LIST (BETA PIPES)****PE-100 Pressure Pipes For Water (ISO 4427)**

w.e.f: May 27th, 2022

Size OD (mm)	PN - 8/SDR-21		PN - 10/SDR-17		PN - 12.5/SDR-13.6		PN - 16/SDR-11	
	Rs./Mtr	Rs./Rft	Rs./Mtr	Rs./Rft	Rs./Mtr	Rs./Rft	Rs./Mtr	Rs./Rft
20	-	-	-	-	-	-	113	34
25	-	-	-	-	141	43	160	49
32	-	-	179	54	216	66	263	80
40	235	72	273	83	338	103	404	123
50	348	106	423	129	517	158	630	192
63	545	166	677	206	818	249	987	301
75	771	235	949	289	1,166	355	1,382	421
90	1,109	338	1,372	418	1,664	507	2,002	610
110	1,664	507	2,040	622	2,463	751	2,970	905
125	2,134	650	2,604	794	3,177	968	3,854	1,175
140	2,670	814	3,262	994	3,976	1,212	4,794	1,461
160	3,497	1,066	4,258	1,298	5,198	1,584	6,298	1,920
180	4,446	1,355	5,444	1,659	6,660	2,030	8,047	2,453
200	5,510	1,679	6,726	2,050	8,170	2,490	9,918	3,023
225	6,954	2,120	8,531	2,600	10,374	3,162	12,559	3,828
250	8,512	2,594	10,450	3,185	12,787	3,898	15,447	4,708
280	10,745	3,275	13,129	4,002	16,017	4,882	19,361	5,901
315	13,509	4,118	16,625	5,067	20,302	6,188	24,510	7,471
355	17,148	5,227	21,157	6,449	25,736	7,844	31,113	9,483
400	21,869	6,666	26,743	8,151	32,642	9,949	39,501	12,040
450	27,655	8,429	33,877	10,326	41,344	12,602	50,018	15,246

- 1 This Price List supersede previous prices with immediate effect.
- 2 Prices are subject to change without prior notice.
- 3 Price are quoted in Rft as well as in Mtrs subject to requirement.
- 4 Unit Prices are in Pakistan Rupees Ex-Factory / Warehouse, Lahore.
- 5 (+) sign indicates that the relevant diameter may be produced on specific request.
- 6 Pipes are supplied in Plain Ends.
- 7 The above Price are inclusive of all Taxes.

Note:

- 1 Supplies to Govt. Donor and Private Agencies the Prices shall be quoted subject to bulk orders.
- 2 For further assistance please feel free to contact on [042-35172409](tel:042-35172409) or at enquiries@betapipes.com.pk



Authorized Signature & Stamp

Electrocraft Engineering

Office # 3, 1st Floor, Ross Residencia, 1-Campus Road, Canal Bank Lahore, Pakistan - 54000, Phone # +92-042-35220570, Fax # +92-042-35220549,
Email: info@ece-intl.com; electrocraftengineering@gmail.com



QUOTATION

REF #

ECE/21/Q/03

DATE:

August 02 2022

To:

Attention:

Mr. Bilal

Asian Consulting Engineers

Subject:

Quotation for Scame Wiring Accessories

Sr No	Required Specs	Offered Specs	Qty	Code	Unit Rate	Total Amount
1	2 Gang 1 Way Switch 10A	Same as required	4	111.3021	300	1,200
2	3 Gang 1 way switch 10A	Same as required	20	111.3031	470	9,400
3	4 Gang 1 way switch 10A	Same as required	20	111.3081	585	11,700
4	6 Gang 1 way switch 10A (3 x 6)	Same as required	35	111.3061	970	33,950
5	13 A universal switch socket	13 A International Socket + Switch	171	111.4232	470	80,370
6	5 A light plug socket	5 A International Socket + Switch	95	111.4232	310	29,450

**Total Amount
(PKR)**

166,070

Terms & Conditions

1. 100% Advance payment
2. Delivery at site
3. 2 - 3 Days Prior to Stock Check
4. Principal is Scame Italy
5. Validity of Quotation is 15 Days

With Best Regards,
Zohaib Ahmed

B.H. INDUSTRIES

Mushtaq Plaza, 5-Chenab Market, Madina Town, Faisalabad.

Tel: 041-8554460, 61, 62, 63, E-mail: sales@bhi.com.pk

National Tax Number: 3206366-7



To: Asian Consulting Engineers Pvt. Ltd.

Lahore.

E-mail:

Quotation / Order

No.: bhi-2302160

Date: 16.02.2023

Customer Ref.: Telephonic

Dated: 16.02.2023

GST #.:

Attn: Mr. Muhammad Mohsan

0348-8004494

Hypo Dosing Pump Manual

Dear Sir,

Thank you for your interest in our products and the enquiry. We are pleased to submit our quotation as under:

S. No.	Description	Model/Size	Qty.	Unit	Rate	Amount (PKR)
1	Hypo Dosing Pump Manual Max. injection capacity: 8-lit/hr. Max. pressure: 10-bar Made in Europe. with Local 80-liter dosing tank.		1	Set	86,000	86,000
Total Ex-works Fsd.:						86,000

PAYMENT: 100% advance with order.

Price is subject to increase if forex rate raises.

DELIVERY: Prompt - Subject to stock.

VALIDITY: Quote is valid for 3 working days. Subject to forex rate.

Direct contact for this project:

TAXES: All taxes to buyer's account in addition to offer price.

Ateeq Herl: 0301-8554460

TRANSPORTATION: To be paid at actual by client directly to the transporter upon delivery.

for B.H. INDUSTRIES

info@bhi.com.pk , www.bhi.com.pk

Customer's Sign/stamp

required as order confirmation

TEEPU ENGINEERING COMPANY
TEEPU CAST IRON & DUCTILE CAST IRON PRODUCTS
PIPE & FITTINGS | COVERS & GRATINGS | VALVES & PENSTOCKS
TEEPU SUPREME SPUN PIPE & FITTINGS



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EFFECTIVE FROM : 01.07.2022

VALVES & HYDRANTS

FEATURES:

1. Manufacturing according to British Standards
2. High discharge and inflow capacities.
3. Full clear bore for optimum flow.
4. Efficient operation after long periods of no-use in either open or closed.
5. Short blasted before assembling.
6. Specially painted against corrosion protection.
7. Machined as per specification.
8. Pressure tested.

Sluice Valve SV / NR Valve

Cast Iron | Ductile Iron Body
 In accordance with BS:5163 | BS:3464
 Epoxy coated internally & externally
 Stainless Steel wedge, stamp & seat
 PN 10 | PN 16



Sr #	Product Description	PN 10 Price	PN 16 Price
1	Sluice / NR Valve 50mm	18,000	31,500
2	Sluice / NR Valve 75mm	24,000	42,000
3	Sluice / NR Valve 100mm	36,000	63,000
4	Sluice / NR Valve 150mm	52,000	91,000
5	Sluice / NR Valve 200mm	68,000	119,000
6	Sluice / NR Valve 250mm	85,000	148,750
7	Sluice / NR Valve 300mm	100,000	175,000
8	Sluice / NR Valve 350mm	145,000	253,750
10	Sluice / NR Valve 375mm	165,000	288,750
11	Sluice / NR Valve 400mm	185,000	323,750
12	Sluice / NR Valve 450mm	250,000	437,500
13	Sluice / NR Valve 500mm	300,000	525,000
14	Sluice / NR Valve 600mm	375,000	656,250
15	Sluice / NR Valve 700mm	750,000	1,125,000
16	Sluice / NR Valve 800mm 750mm	975,000	1,462,500
17	Sluice / NR Valve 900mm	1,450,000	2,175,000
18	Sluice / NR Valve 1000mm	1,750,000	2,625,000

Air Release Valves

Cast Iron | Ductile Iron Body
 In accordance with BS: 1074
 Epoxy coated internally & externally



Sr #	Item Description	Unit Price	Unit Price
1	Air Valve Single Acting 2"	7750	---
2	Air Valve Single Acting 3"	14750	---
3	Air Valve Single Acting 4"	19750	---
4	Air Valve Single Acting 6"	29750	---
5	Air Valve Double Acting 2"	12750	17750
6	Air Valve Double Acting 3"	24750	34750
7	Air Valve Double Acting 4"	37500	47500
8	Air Valve Double Acting 6"	49750	67500
9	Air Valve Double Acting 8"	77500	99750
10	Air Valve Double Acting 10"	124750	174750

Fire Hydrants (Below Ground)

Cast Iron | Ductile Iron Body
 In accordance with BS: 750
 Epoxy coated internally & externally



Sr #	Item Description	Unit Price	Unit Price
1	Fire Hydrant 2½"	12750	17750
2	Fire Hydrant 3"	24750	34750
3	Fire Hydrant 4"	37500	47500
4	Fire Hydrant 6"	49750	67500
5	Fire Hydrant 8"	77500	99750
6	Fire Hydrant 10"	124750	174750

Fire Hydrant (Above Ground Pillar Type)

Sr #	Item Description	Unit Price	Unit Price
1	Fire Hydrant 4" Pillar Type 2-Way/3-Way	125000	175000

GENERAL SPECIFICATION, TERM & CONDITIONS:

1. Valves in accordance with British Standards
2. Flange Type Joints
3. Hydraulic pressure test 150PSI.
4. Payment by advance.
5. Validity of these prices are until December, 2022.
6. This price is based on 100tons pipes.
7. Transportations expenses will be born by buyer.
8. Prices are exclusive of any type of all taxes.



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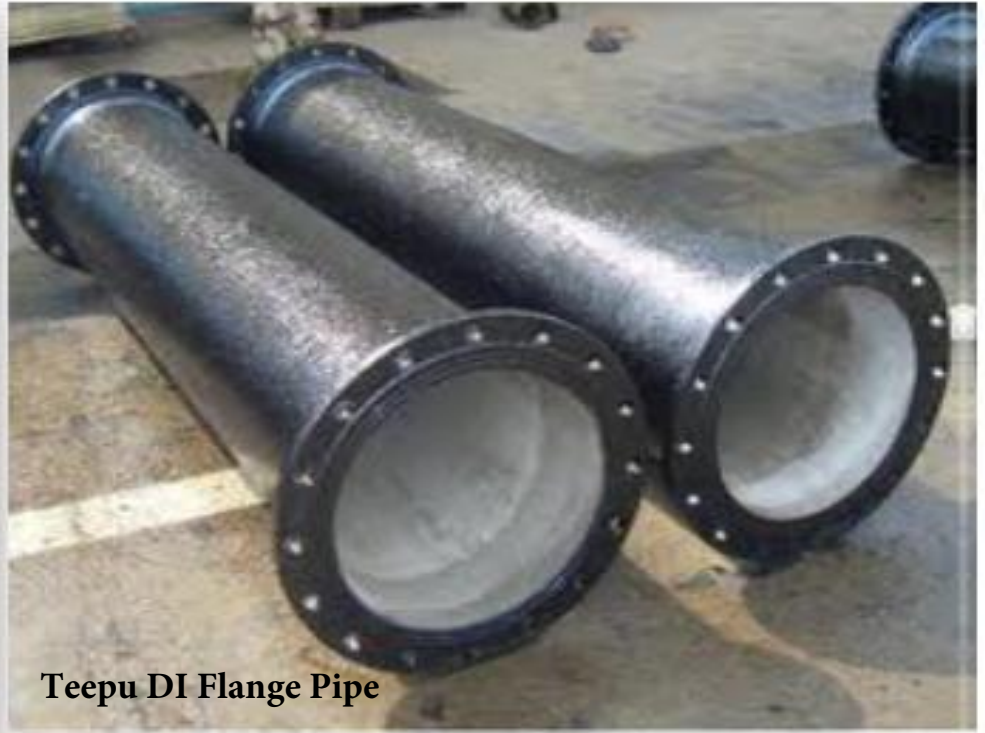


TEEPU PIPE & FITTINGS

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Teepu CI Vent-Shaft



Teepu DI Flange Pipe



Teepu Hub-less Spun Pipe



Teepu DI Covers



Teepu Spun Pipe



Teepu CI Flange Fittings



Teepu CI Covers & Gratings



Teepu CI Flange Pipe



Teepu CI Covers & Gratings



Teepu CI Covers & Gratings

15-KM Jaranwala Road Faisalabad.

Ph: 041-2435060, Cell: 0300-8411966, Email: teepupipe@hotmail.com



Price List Effective From June, 2022
TEEPU CAST IRON COVERS & GRATINGS
IN ACCORDANCE WITH EN:124

Product Description	Group	Specification Class	Areas	Wheel Load (Tons)	Vehicle Load (Tons)	Weight (Kg)	Price
CI Cover With Frame / CI Grating with Frame 300mm (12") 300x300mm (12x12") In-Side Clear Opening	Group-1	EN:124 Class A15	Pedestrian	0.375	1.50	15 ±5%	4500
	Group-2	EN:124 Class B125	Light Traffic	3.125	12.50	30 ±5%	9000
	Group-3	EN:124 Class C250	Medium Traffic	6.25	25.00	45 ±5%	13500
	Group-4	EN:124 Class D400	Heavy Traffic	10.00	40.00	60 ±5%	18000
	Group-5	EN:124 Class E600	Docks	15.00	60.00	75 ±5%	22500
	Group-6	EN:124 Class F900	Docks & Aircrafts	22.50	90.00	100 ±5%	30000
CI Cover With Frame / CI Grating with Frame 450mm (18") 450x450mm (18x18") In-Side Clear Opening	Group-1	EN:124 Class A15	Pedestrian	0.375	1.50	30 ±5%	9000
	Group-2	EN:124 Class B125	Light Traffic	3.125	12.50	60 ±5%	18000
	Group-3	EN:124 Class C250	Medium Traffic	6.25	25.00	90 ±5%	27000
	Group-4	EN:124 Class D400	Heavy Traffic	10.00	40.00	120 ±5%	36000
	Group-5	EN:124 Class E600	Docks	15.00	60.00	150 ±5%	45000
	Group-6	EN:124 Class F900	Docks & Aircrafts	22.50	90.00	200 ±5%	60000
CI Cover With Frame / CI Grating with Frame 600mm (24") 600x600mm (24x24") In-Side Clear Opening	Group-1	EN:124 Class A15	Pedestrian	0.375	1.50	55 ±5%	16500
	Group-2	EN:124 Class B125	Light Traffic	3.125	12.50	100 ±5%	30000
	Group-3	EN:124 Class C250	Medium Traffic	6.25	25.00	150 ±5%	45000
	Group-4	EN:124 Class D400	Heavy Traffic	10.00	40.00	200 ±5%	60000
	Group-5	EN:124 Class E600	Docks	15.00	60.00	275 ±5%	82500
	Group-6	EN:124 Class F900	Docks & Aircrafts	22.50	90.00	350 ±5%	105000
CI Cover With Frame / CI Grating with Frame 700mm (28") In-Side Clear Opening	Group-2	BSEN:124 Class B125	Light Traffic	3.125	12.50	150 ±5%	45000
	Group-3	BSEN:124 Class C250	Medium Traffic	6.25	25.00	200 ±5%	60000
	Group-4	BSEN:124 Class D400	Heavy Traffic	10.00	40.00	250 ±5%	75000
750mm (30") 750x750mm (30x30") In-Side Clear Opening	Group-2	BSEN:124 Class B125	Light Traffic	3.125	12.50	150 ±5%	37500
	Group-3	BSEN:124 Class C250	Medium Traffic	6.25	25.00	225 ±5%	67500
	Group-4	BSEN:124 Class D400	Heavy Traffic	10.00	40.00	300 ±5%	90000
CI Cover With Frame / CI Grating with Frame 800mm (32") In-Side Clear Opening	Group-2	BSEN:124 Class B125	Light Traffic	3.125	12.50	175 ±5%	52500
	Group-3	BSEN:124 Class C250	Medium Traffic	6.25	25.00	250 ±5%	75000
	Group-4	BSEN:124 Class D400	Heavy Traffic	10.00	40.00	325 ±5%	97500
CI Cover With Frame / CI Grating with Frame 900mm (36") 900x900mm (36x36") In-Side Clear Opening	Group-2	BSEN:124 Class B125	Light Traffic	3.125	12.50	200 ±5%	60000
	Group-3	BSEN:124 Class C250	Medium Traffic	6.25	25.00	275 ±5%	68750
	Group-4	BSEN:124 Class D400	Heavy Traffic	10.00	40.00	350 ±5%	105000
Cast Iron Surface Box 150mm (6")	Group-2	BSEN:124 Class B125	Light Traffic	3.125	12.50	20 ±5%	4500
	Group-4	BSEN:124 Class D400	Heavy Traffic	10.00	40.00	30 ±5%	9000
Cast Iron Surface Box 150mm (9")	Group-2	BSEN:124 Class B125	Light Traffic	3.125	12.50	30 ±5%	9000
	Group-4	BSEN:124 Class D400	Heavy Traffic	10.00	40.00	40 ±5%	12000
Cast Iron Surface Box 150mm (12")	Group-2	BSEN:124 Class B125	Light Traffic	3.125	12.50	40 ±5%	12000
	Group-4	BSEN:124 Class D400	Heavy Traffic	10.00	40.00	60 ±5%	15000
Cast Iron Rungs	8x12x1½"		BS: 1247			3.00 ±5%	900
	10x12x2"		BS: 1247			5.00 ±5%	1500
	12x15x3"		BS: 1247			7.50 ±5%	2250

ADDITIONAL FEATURES:

- ☞ Water-tight, air-tight, double seat, electrical conduct, lockable and hinge type covers also optional available.
- ☞ Alloyed cast iron metal, (anti-rusting metallurgy)
- ☞ Load test or mechanical test & metallurgy test at any lab in Pakistan.
- ☞ Life-time warrantee

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EFFECTIVE FROM : 01.07.2022

TEEPU CAST IRON FLANGE FITTINGS

IN ACCORDANCE WITH BS: 4622 | BS:2035

FOR POTABLE WATER, OVER HEAD WATER TANK, SEWERAGE & DISPOSAL STATIONS

Effective From : 01.01.2021

Sr. #	CI Flange Fitting's Size (inch)	Flange Bend 90°/45° Weight	Flange Bend 90°/45° Price	Flange Equal Tee Weight	Flange Equal Tee Price	Flange Bell Mouth Weight	Flange Bell Mouth Price	Flange Spigot Weight	Flange Spigot Price	Flange Socket Weight	Flange Socket Price	CI Flange Cross Weight	CI Flange Cross Price	CI Flange Branch Weight	CI Flange Branch Price
1	2"	10.00	3,500	10.00	3,500	10.00	3,500	9	2250	10	4082	16	6350	18	7031
2	3"	15.00	5,250	17.50	6,125	15.00	5,250	14	3544	16	4933	26	10206	29	11567
3	4"	20.00	7,000	25.00	8,750	20.00	7,000	22	5387	23	6804	40	15876	45	18144
4	6"	35.00	12,250	50.00	17,500	35.00	12,250	37	9356	35	10376	76	30391	93	37195
5	8"	50.00	17,500	75.00	26,250	50.00	17,500	62	15593	53	15819	129	51710	154	61463
6	10"	85.00	29,750	100.00	35,000	100.00	35,000	87	21830	73	21773	201	80287	241	96390
7	12"	125.00	43,750	150.00	52,500	125.00	43,750	115	28634	104	31128	288	115214	404	161708
8	15"	175.00	61,250	275.00	96,250	175.00	61,250	162	40399	156	46778	468	187337	675	269892
9	18"	275.00	96,250	400.00	140,000	275.00	96,250	214	53440	205	61406	697	278964	961	384426
10	21"	375.00	131,250	550.00	192,500	375.00	131,250	306	91854	270	94462	992	396673	1304	521413
11	24"	500.00	175,000	700.00	245,000	500.00	175,000	375	112606	341	153600	1336	534341	1170	468115
12	27"	650.00	260,000	900.00	360,000	650.00	260,000	448	134379	422	189832	1734	780249	2269	1020855
13	30"	775.00	310,000	1100.00	440,000	775.00	310,000	528	158363	494	222236	1990	895321	2903	1306368
14	33"	900.00	360,000	1350.00	540,000	900.00	360,000	-	-	-	-	-	-	-	-
15	36"	1175.00	470,000	1700.00	680,000	1175.00	470,000	-	-	-	-	-	-	-	-
16	42"	1475.00	590,000	2200.00	880,000	1475.00	590,000	-	-	-	-	-	-	-	-
17	48"	1875.00	750,000	2850.00	1,140,000	1875.00	750,000	-	-	-	-	-	-	-	-

Note1: Above sizes are in accordance with BS: 4622 | BS: 2035 other sizes also available on buyer's requirement

Note2: Above given weights are approximated in accordance with BS: 2035, Class-B, Tolerance of weight ± 8%

Note3: CI Flange Pipe in accordance with BS: 4622 | BS: 2035 in Class C & D are also available on buyer's requirement .

GENERAL SPECIFICATION, TERM & CONDITIONS:

1. CI Flange Pipe & Flange Fittings in accordance with BS: 4622 | BS: 2035.
2. Flange Type Joints and Flanges in accordance with BS: 10, Table D.
3. All Type of Flange Fittings, Tees, Cross Tees , Traps & Branchs available.
4. Hydraulic pressure test 150 PSI.
5. Payment by advance.
6. Delivery time period will be settled at the time of order / quantity required.
7. Validity of these Prices are until December, 2022.
8. This prices is base on 100tons pipes/fittings.
9. Prices are ex-factory.
10. Prices are exclusive of any type of all taxes.



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EFFECTIVE FROM : 01.07.2022

TEEPU CAST IRON FLANGE PIPE & FLANGE FITTINGS

IN ACCORDANCE WITH BS: 4622 | BS:2035

FOR POTABLE WATER, OVER HEAD WATER TANK, SEWERAGE & DISPOSAL STATIONS

Sr #	Product Description CI Flange Pipe	Weight ±8% (Kg)	Length with Both Side	Price/Length Class B	Price/Meter Class B
1	CI Flange Pipe 2"	30	2-meter	10500	5250
2	CI Flange Pipe 3"	45	2-meter	15750	7875
3	CI Flange Pipe 4"	60	2-meter	21000	10500
4	CI Flange Pipe 6"	100	2-meter	35000	17500
5	CI Flange Pipe 8"	150	2-meter	52500	26250
6	CI Flange Pipe 10"	175	2-meter	61250	30625
7	CI Flange Pipe 12"	225	2-meter	78750	39375
8	CI Flange Pipe 15"	350	2-meter	122500	61250
9	CI Flange Pipe 18"	450	2-meter	157500	78750
10	CI Flange Pipe 21"	575	2-meter	201250	100625
11	CI Flange Pipe 24"	725	2-meter	253750	126875
12	CI Flange Pipe 27"	850	2-meter	340000	170000
13	CI Flange Pipe 30"	1000	2-meter	400000	200000
14	CI Flange Pipe 33"	1150	2-meter	460000	230000
15	CI Flange Pipe 36"	1350	2-meter	540000	270000
16	CI Flange Pipe 42"	1650	2-meter	660000	330000
17	CI Flange Pipe 48"	2000	2-meter	800000	400000

Note1: Above sizes are in accordance with BS: 4622 | BS: 2035 other sizes also available on buyer's requirement

Note2: Above given weights are approximated in accordance with BS: 4622 | BS: 2035 Class-B, Tolerance of weight ± 8%

Note3: CI Flange Pipe in accordance with BS: 4622 | BS: 2035 in Class C & D are also available on buyer's requirement

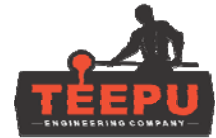
GENERAL SPECIFICATION, TERM & CONDITIONS:

1. CI Flange Pipe & Flange Fittings in accordance with BS: 4622 | BS: 2035.
2. Flange Type Joints and Flanges in accordance with BS: 10, Table D.
3. Pipes other than standard length also available on requirement.
4. Hydraulic pressure test 150 PSI.
5. Payment by advance.
6. Delivery time period will be settled at the time of order/ quantity required.
7. Validity of these prices are until December, 2022.
8. This prices is base on 100tons pipes.
9. Transportations expenses will be born by buyer.
10. Prices are exclusive of any type of all taxes.



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EFFECTIVE FROM : 01.07.2022
PENSTOCK GATES
IN ACCORDANCE WITH BS: 7775

Sr. #	Product Description		Clear	Unit	Price
	Penstock Gate Size Clear Opening	Penstock Frame Size Opening			
1	150 x 150 mm	150 x 300mm		Set	49,875
2	200 x 200mm	200 x 400mm		Set	67,500
3	250 x 250mm	250 x 500mm		Set	75,000
4	300 x 300mm	300 x 600mm		Set	125,000
5	350 x 350mm	350 x 700mm		Set	150,000
6	400 x 400mm	400 x 800mm		Set	187,500
7	450 x 450mm	450 x 900mm		Set	212,500
8	500 x 500mm	500 x 1000mm		Set	225,000
9	550 x 550mm	550 x 1100mm		Set	247,500
10	600 x 600mm	600 x 1200mm		Set	300,000
11	650 x 650mm	650 x 1300mm		Set	337,500
12	700 x 700mm	700 x 1400mm		Set	375,000
13	750 x 750mm	750 x 1500mm		Set	450,000
14	800 x 800mm	800 x 1600mm		Set	575,000
15	900 x 900mm	900 x 1800mm		Set	750,000
16	1000 x 1000mm	1000 x 2000mm		Set	975,000
17	1250 x 1250mm	1250 x 2500mm		Set	1,250,000
18	1500 x 1500mm	1500 x 3000mm		Set	1,475,000
19	1750 x 1750mm	1750 x 3500mm		Set	1,750,000
20	2000 x 2000mm	2000 x 4000mm		Set	1,975,000
21	2500 x 2500mm	2500 x 5000mm		Set	2,475,000
22	3000 x 3000mm	2500 x 5000mm		Set	2,975,000

Note: Manual & Gear Operated Penstock Gates up to 3000x3000mm (Gate Size) are available.

Note: Cost of motorized operation would be added according to order.

Materials Specification : Basic & Alternative

Component	Material Specification	
	Basic	Alternative material examples
1. Frame	Cast iron BS1452 Grade 220	
2. Door	Cast iron BS1452 Grade 220	
3. Wedges	Cast iron BS1452 Grade 220	Cast Iron BS1452 Grade 260
4. Hand wheel/Cap	Cast iron BS1452 Grade 220	
5. Thrust plates	Cast iron BS1452 Grade 220	
6. Seats	Copper Alloy BS2874 CZ121	Copper Alloy BS1400 LG2 or BS2872 or Stainless Steel
7. Stem Nut	Copper Alloy BS1400 LG2	Copper Alloy BS1400 PB4C
8. Stem / Spindle (Shafts)	Stainless Steel BS970 303S21	Copper Alloy BS2874 or Stainless steel to BS970 316
9. Channels	Stainless Steel BS970 303S21	Copper Alloy BS2874 or Stainless steel to BS970 316
10. Bolting	BS4190 GR4.6	BS3692 Grade A2 or A4 Stainless Steel

GENERAL SPECIFICATION, TERM & CONDITIONS:

- SPECIFICATION:** IN ACCORDANCE WITH BS: 7775
- PAYMENT:** BY ADVANCE.
- DELIVERY:** DELIVERY TIME PERIOD WILL BE SETTLED AT THE TIME OF ORDER / QUANTITY REQUIRED
- VALIDITY:** PRICES ARE VALID UNTIL DECEMBER, 2022.
- TAXATION:** PRICES ARE EXCLUSIVE OF ANY TAX.
- TRANSPORTATIONS:** PRICES ARE EX-FACTORY FAISALABAD

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Price List Effective From June, 2022

CI RAINWATER PIPE & FITTINGS CLASSIC RANGE

Conventional and reliable Sand-cast pipe & fittings for drains, rain water & ventilation

Spigot & socket lead caulked joints

Sr. #	Product Description	4" (100mm)		6" (150mm)		8" (200mm)		10" (250mm)	
		Weight(Kg)	Price	Weight	Price	Weight	Price	Weight	Price
1	CI Rainwater Pipe 6ft length	25.00	7500	50.00	15000	75.00	22500	110.00	33000
2	Plain Bend 45° / 90°	10.00	3000	20.00	6000	30.00	9000	50.00	15000
3	Shoe Bend	10.00	3000	20.00	6000	30.00	9000	50.00	15000

CI SPUN PIPE & FITTINGS IN ACCORDANCE WITH BS:416

A well known efficient drainage system used for soil waste drain, rain water & ventilation

Spigot & socket lead caulked joints, in accordance with BS: 416 : Part-1 : 1990

Sr. #	Product Description	3" (75mm)		4" (100mm)		6" (150mm)		8" (200mm)	
		Weight(Kg)	Price	Weight	Price	Weight	Price	Weight	Price
1	CI Spun Pipe 6ft length	16.00	4800	22.00	6600	35.00	10500	60.00	18000
2	Plain Bend 45° / 90°	5.00	1500	8.00	2400	15.00	4500	25.00	7500
4	Plug Bend 45° / 90°	6.00	1800	10.00	3000	18.00	5400	30.00	9000
6	Plain Tee	6.00	1800	12.00	3600	22.00	6600	30.00	9000
7	Plug Tee	8.00	2400	15.00	4500	25.00	7500	35.00	10500
8	Plain Yee Tee Single 90°	10.00	3000	15.00	4500	30.00	9000	45.00	13500
9	Plain Yee Tee Double 90°	12.50	3750	18.00	5400	35.00	10500	60.00	18000
10	Collar Single Socket	3.00	900	5.00	1500	7.50	2250	10.00	3000
11	Collar Double Socket	5.00	1500	7.50	2250	10.00	3000	15.00	4500
12	Vent Cowl	3.00	1200	4.00	1600	5.00	2000	10.00	4000
13	Off Set Bend	10.00	3000	15.00	4500	25.00	7500	50.00	15000
14	Shoe Bend	5.00	1500	8.00	2400	15.00	4500	25.00	7500
15	P - Trap	7.50	2250	10.00	3000	17.50	5250	0.00	0
16	Gully Trap 6"x 6" x 4"	0.00	0	20.00	8000	0.00	0	0.00	0
17	Gully Trap 9"x 9" x 4"	0.00	0	30.00	12000	0.00	0	0.00	0
18	Holding Clamps (Galvanized)	1.00	500	1.50	750	2.50	1250	4.00	2000
		4x3" (100x75mm)		6x3" (150x75mm)		6x4" (150x100mm)		8x4" (200x100mm)	
19	Reducer Socket	6.00	1800	15.00	4500	15.00	4500	25.00	7500
20	Floor Trap	7.50	2250	0.00	0	0.00	0	0.00	0
21	CI Cover with Frame & Gratings (For Domestic Use	12x12"		15x15"		18x18"		24x24"	
		10.00	3000	15.00	4500	20.00	6000	40.00	12000

PRODUCT FEATURES:

CI Spun Pipe & Fittings in accordance with BS: 416, available on order from 50mm to 250mm.

Original Teepu Product | Original Cast Iron Product | Centrifugal (Spun) Technology.

100% Leakage & Seepage Free Pipe & Fittings | 100% Warrantee Products

After Sale Services

TERM & CONDITIONS:

Prices are exclusive of all taxes.

Prices are exfactory, Faisalabad

Prices may change without prior notice.

TEEPU ENGINEERING COMPANY
TEEPU CAST IRON & DUCTILE CAST IRON PRODUCTS
PIPE & FITTINGS | COVERS & GRATINGS | VALVES & PENSTOCKS
TEEPU SUPREME SPUN PIPE & FITTINGS



Cell: 0300-8411966 | Email: teepupipe@hotmail.com | <https://www.teepuengineering.com>

EFFECTIVE FROM : 01.07.2022
DUCTILE IRON FLANGE PIPE & FLANGE FITTINGS
IN ACCORDANCE WITH ISO: 2531 | BS:4772

Sr. #	DI PIPE & FFITTINGS Flange Type Joints Size	DI Flange Pipe Class K-12 Price/ Meter	Puddle Flange Pipe Class K-12 Price/ Each	Flange Bend 90° /45° Class K-12 Price/ Each	Flange Bell Mouth Class K-12 Price/ Each	Flange Tee Class K-14 Price/ Each
1	80mm	10688	16031	6063	7578	9750
2	100mm	13313	19969	7438	9297	12063
3	150mm	20875	31313	12500	15625	20313
4	200mm	29688	44531	19063	23828	30625
5	250mm	39625	59438	30625	38281	50625
6	300mm	51000	76500	43125	53906	71875
7	350mm	76500	114750	60000	75000	93750
8	400mm	94200	141300	78750	98438	118750
9	450mm	112875	169313	100000	125000	148125
10	500mm	135000	202500	131250	164063	190000
11	600mm	188325	282488	202500	253125	279375
12	700mm	232575	348863	264375	330469	342500
13	800mm	292500	438750	356875	446094	463125
14	900mm	358200	537300	468750	585938	653750
15	1000mm	435075	652613	618750	773438	870000
16	1100mm	507075	760613	770625	963281	1118125
17	1200mm	605700	908550	983125	1228906	1450625
18	1400mm	625000	937500	0	0	0

GENERAL SPECIFICATION, TERM & CONDITIONS:

1. Ductile Iron Flange Fittings in accordance with ISO: 2531 | BS: 4772.
2. Flange Type Joints and Flanges in accordance PN:16
3. All Type of Flange Fittings, Tees, Cross Tees, Traps & Branches available.
4. Hydraulic pressure test 150-PSI.
5. Payment by 100% advance.
6. Delivery time period will be settled at the time of order / quantity required.
7. Validity of these prices are until December, 2022.
8. This prices is base on 100tons pipes/fittings.
9. Transportations expenses will be born by buyer.
10. Prices are exclusive of any type of all taxes.



Cell: 0300-8411966 | Email: teepupipe@hotmail.com | <https://www.teepuengineering.com>



FLANGE ADOPTOR

PN 16		
63mm	400	
75mm	625	
90mm	800	
110mm	1100	
125mm	1200	
160mm	2200	
180mm	2600	
PN 10	PN 16	
200mm	-	4200
225mm	3800	6000
250mm	7500	8500
280mm	8900	11,500
315mm	9,000	12,000
355mm	13,000	22,000
400mm	15,000	28,000
450mm	19,000	34,000
500mm	32,000	44,000
560mm	37,000	57,000
630mm	44,000	80,000
PN 10		
710mm	80,000	
800mm	90,000	
900mm	125,000	
1000mm	150,000	
1200mm	320,000	



ELBOW 90

PN 16	
650	
700	
900	
1450	
3400	
4600	
5600	
PN 10	PN 16
-	7700
-	15,000
-	14,000
20,000	24,500
22,000	32,000
30,000	40,000
48,000	65,000
55,000	120,000
90,000	170,000
120,000	220,000
145,000	310,000
PN 10	
310,000	
420,000	



ELBOW 45

PN 16	
550	
600	
700	
1000	
2500	
3400	
6600	
PN 10	PN 16
4000	7000
10,000	12,000
9000	13,000
-	23000
-	25,000
24,000	30,000
32,000	42,000
52,000	100,000
70,000	127,000
90,000	150,000
120,000	215,000
PN 10	
225,000	
300,000	



TEE

PN 16	
750	
850	
1200	
2000	
4300	
6700	
12,000	
16,500	
PN 10	PN 16
9000	14,000
-	18,750
11,500	22,000
27,000	40,000
29,000	40,000
39,000	75,000
53,000	75,000
100,000	200,000
135,000	260,000
200,000	360,000
260,000	480,000
PN 10	
450,000	
620,000	



CAP

PN 16	
-	
420	
420	
500	
900	
1200	
3000	
PN 10	PN 16
2000	3000
-	4800
-	7000
-	9000
12,500	-
-	15,000
14,000	17,000
24,000	32,000
-	43,000
-	53,000
55,000	70,000
PN 10	
80,000	
108,000	



CROSS

PN 16	
1500	
1800	
2800	
4000	
6000	
13,500	
PN 10	PN 16
-	20,000
-	29,000
-	31,000
-	-
45,000	55,000
-	72,000
-	99,000
-	135,000
-	174,000
-	250,000
-	350,000
PN 10	
600,000	
900,000	



REDUCER	
PN 16	
75X50	450
75X63	450
90X50	550
90X63	550
90X75	550
110X63	1120
110X75	1120
110X90	1120
125X90	1790
125X110	1790
140X110	-
160X63	2250
160X75	2250
160X90	2250
160X110	2250
160X125	2250
180X90	3920
180X110	3920
180X125	3920
180X160	3920

REDUCER		
	PN 10	PN 16
200X63	2250	3350
200X75	2250	3350
200X90	2250	3350
200X110	2250	3350
200X125	2800	3350
200X160	2800	3350
225X110	-	7200
225X180	-	7200
250X90	5050	10,080
250X110	5050	10,080
250X125	-	10,080
250X160	6,150	11,200
250X200	6,150	11,200
280X180	13,500	14,550
280X225	13,500	14,550
280X250	13,500	14,550
315X110	13,500	14,550
315X160	13,500	14,550
315X200	13,500	14,550
315X280	13,500	14,550

REDUCER		
	PN 10	PN 16
315X250	-	14,600
355X160	17,000	28,000
355X250	17,000	-
355X315	17,000	-
400X200	20,700	41,450
400X315	20,700	-
450X200	22,500	59,500
450X250	28,000	-
450X315	28,000	-
500X110	-	-
500X250	42,000	78,500
500X450	-	-
560X315	42,600	86,250
560X450	45,000	119,000
630X400	55,000	145,500
630X450	55,000	145,500
710X250	95,000	-
710X500	100,800	-
800X250	123,000	-
800x630	123,000	-



REDUCE TEE	
PN 16	
75x63	1100
90x50	1400
90x63	1400
90x75	1400
110x50	1900
110x63	1900
110x75	1900
110x90	1900
125x90	3900
125x110	4250
160x63	6150
160x75	6150
160X90	5600
160x110	6150
180x90	7850
180x125	6700 7850
200X63	9500 9500
200X75	6720 11,000
200X63	6720 11,000
200x90	6720 11,000
200x110	6720 11,000

REDUCE TEE		
	PN 10	PN 16
200x160	9500	13,000
225x90	-	14,500
225x160	-	25,750
250x90	9000	17,000
250x110	9000	17,000
250x160	9000	19,000
250x200	9000	21,300
280X110	18,000	28,000
280x160	18,000	28,000
315x90	17,000	28,000
315x110	17,000	28,000
315X160	19,000	30,200
315x200	19,000	30,200
315x250	19,000	33,600
355x110	27,000	45,000
355x160	31,500	47,000
355X250	40,500	63,000
400x110	33,500	58,000
400x200	41,500	71,000
400x250	48,200	-
450x110	53,800	114,000

REDUCE TEE		
	PN 10	PN 16
450x200	67,200	139,000
450X250	84,000	-
450X315	103,000	174,000
500X110	67,200	134,000
500X200	89,500	168,000
500X315	118,000	224,000
500X450	157,000	291,000
560X110	90,000	186,000
560X200	112,000	224,000
560X315	140,000	280,000
560X450	190,000	370,000
630X110	125,000	274,000
630X200	146,000	280,000
630X400	179,000	358,000
630X450	258,000	448,000
710X110	308,000	-
710X315	392,000	-
710X500	426,000	-
800X110	314,000	-
800X315	409,000	-
800X630	448,000	-



FLANGE ADOPTOR

PN 16		
63mm	450	
75mm	700	
90mm	900	
110mm	1230	
125mm	1345	
160mm	2465	
180mm	2910	
PN 10	PN 16	
200mm	-	4700
225mm	4260	6720
250mm	8400	9500
280mm	9970	12,900
315mm	10,080	13,450
355mm	14,560	24,650
400mm	16,800	31,350
450mm	21,300	38,100
500mm	35,850	49,300
560mm	41,450	63,850
630mm	49,300	89,600
PN 10		
710mm	89,500	
800mm	100,800	
900mm	140,000	
1000mm	168,000	
1200mm	358,500	



ELBOW 90

PN 16	
730	
785	
1010	
1630	
3810	
5150	
6270	
PN 10	PN 16
-	8625
-	16,800
-	15,700
22,500	27,450
24,650	35,850
33,600	44,800
53,750	72,800
61,600	134,400
100,800	190,500
134,400	246,500
162,500	347,000
PN 10	
347,000	
470,500	



ELBOW 45

PN 16	
620	
670	
785	
1120	
2800	
3800	
7400	
PN 10	PN 16
4500	7850
11,200	13,450
10,100	14,550
-	25,750
-	28,000
26,900	33,600
35,850	47,000
58,250	112,000
78,500	142,250
100,800	168,000
134,500	241,000
PN 10	
252,000	
336,000	



TEE

PN 16	
850	
950	
1350	
2250	
4820	
7500	
13,500 18,500	
PN 10	PN 16
10,100	15,700
-	21,000
12,900	24,650
30,250	44,800
32,450	44,800
43,700	84,000
59,350	84,000
112,000	224,000
151,200	291,000
224,000	403,000
291,200	537,500
PN 10	
505,000	
695,000	



CAP

PN 16	
-	
470	
470	
560	
1000	
1350	
3350	
PN 10	PN 16
2250	3350
-	5380
-	7850
-	10,100
14,000	-
-	16,800
15,700	19,000
26,900	35,850
-	48,200
-	59,500
61,500	78,500
PN 10	
89,500	
121,000	



CROSS

PN 16	
1700	
2020	
3140	
4480	
6700	
15,100	
PN 10	PN 16
-	22,500
-	32,500
-	34,700
-	-
50,500	61,600
-	80,650
-	110,900
-	151,000
-	195,000
-	280,000
-	392,000
PN 10	
672,000	
1,008,000	



OFFICE OF THE DIRECTOR (PROCUREMENT) DIST: MEPCO LTD:

Mepco Complex, Wapda Colony Khanewal Road, Multan

Tel: 061-9220279, 9210380 Ext: 83, Email: dpdmepco@gmail.com, Fax No. 061-6776314

No. 19506/18



Chief Engineer (P&E)
MEPCO Ltd. Multan

All Managers (Operation)
MEPCO Ltd.

M. Garh

Project Director (Const)
MEPCO Ltd. Multan

Dated

9.7.21 ✓ 2022

D.C.M

A.D (HR)

A.D (CSC)

T.A

Diary No/Date

4450

30 APR 2022

Sub: PRICE BULLETIN OF STORE ITEMS IN RESPECT OF DIRECTOR (PROCUREMENT) DISTRIBUTION MEPCO W.E.F 01.05.2022.

The price list of distribution material (without GST) on the basis of current tender / Purchase order rates of MEPCO is enclosed herewith for information & further necessary action at your end please.

DA: As Above

[Signature]
DIRECTOR (PROC) DIST:
MEPCO LTD. MULTAN

Copy to: -

1. General Manager (Technical) MEPCO Ltd. Multan for information please.
2. General Manager (Operation) MEPCO Ltd. Multan for information please.
3. Finance Director MEPCO for information please.
4. *Addr. D.C. (M.M) for i-formatin.*

Enclst. No. 10715-19 Dated 30/04/2022

Forwarded to:

All XBNs (Op) under MEPCO Circle M/Garh
For implementation from 01.05.2022.

[Signature]
Superintending Engineer
MEPCO (OP) Circle M.Garh

Page 11 of 11

RATE LIST OF DISTRIBUTION MATERIAL W.E.F 01.05.2022 →

Sr. No.	Description of Item	Unit	Rate per unit without GST (Rs.)	Rate per unit + 12% Store Charges
1	25 kva T/Former	No.	313028	350591
2	50 kva T/Former	No.	445211	498636
3	100 kva T/Former	No.	672000	752640
4	200 kva T/Former	No.	1099901	1231889
5	Dog Conductor	km	357000	399840
6	Rabbit Conductor	km	154035	172519
7	Osprey Conductor	km	753900	844368
8	Wasp Conductor	km	251475	281652
9	Ant Conductor	km	145399	162847
10	PVC 2/C 7/.052 10mm2	km	99855	111838
11	Cable S/C 11 kv 500 MCM	Km	1962816	2198354
12	Cable 3/C 2/0 AWG	Km	3202500	3586800
13	Cable 3/C 4/0 AWG	Km	4567500	5115600
14	PVC S/C 19/.052	Km	94710	106075
15	PVC S/C 19/.083	Km	246750	276360
16	PVC S/C 37/.083	Km	430500	482160
17	PVC 4/C 25mm 19/.052	km	456056	510783
18	PVC 4/C 70mm 19/.083	km	836744	937153
19	PVC 4/C 120mm 37/.83	km	1519863	1702247
20	Spool Insulator	No.	158	176
21	Pin Insulator	No.	574	643
22	Disc Insulator	No.	2095	2346
23	HT Spun Poles 36'	No.	24675	27636
24	LT Spun Poles 31'	No.	19428	21760
25	HT Spun Poles 40'	No.	42000	47040
26	HT Spun Poles 45'	No.	54705	61270
27	HT Steel Structure 34'-8"	No.	59625	66780
28	LT Steel Structure	No.	38220	42806
29	HT Steel Structure 40'	No.	105000	117600
30	HT Steel Structure 45'	No.	168000	188160
31	HT Steel Structure 58'	No.	304500	341040
32	Stay Wire	Kg	242	270
33	S/Phase Static Meters	No.	1982	2220
34	HT TOU Meters	No.	16800	18816
35	LT TOU Meters	No.	13650	15288
36	3-P, TOD Meters Static	No.	9975	11172
37	D-Fuse Fittings	No.	7875	8820
38	Fuse Holder	No.	4237	4745
39	Fuse -3k	No.	420	470
40	Fuse -6k	No.	420	470
41	Fuse -10k	No.	420	470
42	Fuse -15k	No.	420	470
43	Fuse -20k	No.	431	482
44	CTs 100/5 Amp	No.	6741	7550
45	CTs 200/5 Amp	No.	5565	6233
46	CTs 400/5 Amp	No.	4442	4974
47	CTs 800/5 Amp	No.	4043	4528
48	Double Axle Trolley	No.	577500	646800
49	ATB A-Type 100/5	No.	35805	40102
50	ATB A-Type 200/5	No.	45975	51492
51	ATB A-Type 400/5	No.	48075	53844
52	ATB A-Type 800/5	No.	51225	57372
53	11 kv Indoor T/Kit for 3/C AWG	No.	18900	21168

Sr. No.	Description of Item	Unit	Rate per unit without GST (Rs.)	Rate per unit + 12% Store Charges
54	11kv Outdoor T/Kits for 3/C AWG	No.	23100	25872
55	11 kv Indoor T/Kit for S/C 500 MCM Cable	No.	8400	9408
56	11 kv Outdoor T/Kit for S/C 500 MCM	No.	11550	12936
57	11 kv Un-Switched Capacitor	Set	236250	264600
58	LT Capacitor 5 KVAR	No.	5250	5880
59	LT Capacitor 7.5 KVAR	No.	9450	10584
60	LT Capacitor 10 KVAR	No.	8610	9643
61	LT Capacitor 12.5KVAR	No.	9240	10349
62	LT Capacitor 15 KVAR	No.	10710	11995
63	LT Capacitor 20 KVAR	No.	11445	12818
64	Single Structure P.Form	No.	14616	16370
65	Double Structure P.Form	No.	26025	29148
66	Stay Rods	No.	4723	5290
67	Earth Rod	No.	1633	1829
68	D-Shackle Assembly	No.	393	440
69	Stay Strips	No.	410	459
70	Eye Nuts	No.	212	238
71	Nuts & Bolts 2x5/8"	No.	95	106
72	Nuts & Bolts 6x3/8"	No.	121	135
73	Nuts & Bolts 8x5/8"	No.	170	191
74	Nuts & Bolts 9x5/8"	No.	183	205
75	Nuts & Bolts 10x5/8"	No.	205	229
76	Nuts & Bolts 12x5/8"	No.	252	282
77	Nuts & Bolts 14x5/8"	No.	252	282
78	DA-Bolt -12"	No.	410	459
79	DA-Bolt -14"	No.	441	494
80	DA-Bolt -20"	No.	473	529
81	DA-Bolt -22"	No.	483	541
82	PG Connector S-117	No.	221	247
83	PG Connector S-157	No.	231	259
84	PG Connector T-110	No.	431	482
85	PG Connector T-155	No.	536	600
86	PG Connector T-150	No.	509	570
87	PG Connector T-220	No.	788	882
88	Steel X-Arms	No.	8925	9996
89	Pins for Steel X-Arms	No.	788	882
90	Anchor Shackle	No.	263	294
91	Deadend Clamp (Osp)	No.	1442	1615
92	Deadend Clamp (Dog)	No.	840	941
93	Deadend Clamp LC-10	No.	357	400
94	Deadend Clamp LC-16	No.	546	612
95	Knee Bracing	No.	300	336
96	Wooden Cross Arms	No.	3675	4116
97	Pin for Wooden X-Arms	No.	630	706
98	Steel X-Arm for D.F.F	No.	5775	6468
99	Square Washer	No.	95	106
100	G.I Thimble	No.	104	116
101	AMR Meter	No.	15750	17640
102	Ariel Bundle Cable 50mm ²	km	630000	705600
103	Ariel Bundle Cable 95mm ²	km	997815	1117553


 DIRECTOR (PROC) DIST:
 MEPCO LTD. MULTAN

LV Switchgear

TECHNO-COMMERCIAL OFFER

Customer: Asian Consulting Engineers
Project:

Ref No: TE-130-012023

Dated: 20-01-2023



Lahore: Taj Garh Road, Yadgar Shuhada Stop, G.T. Road, Manawan, Lahore-Pakistan.
+92-42-36522861-62-63 **+92-42-36522864** **info@tariqelectric.com**
Karachi: 1st Floor, MA Tabba Foundation Building, Gizri Road, Block – 9, Clifton, Karachi.
Cell: +92-301-1163120



M/S: Asian Consulting Engineers
 Lahore, Pakistan

Ref No: TE-130-012023

Dated: 20-01-2023

Attn.: Engr. Muneeb Ahmed | Electrical Design Engineer
 0345-4739891

Sub.: Quotation for Supply of LV Switchgear

Dear Sir,

Reference your mail enquiry regarding quotation for the supply of subject items. We are pleased to submit our offer as per following attachments;

Annex-A	General Terms & Conditions	01	Page
Annex-B	Commercial Submittal	01	Page
Annex-C	Technical Submittal LV	01	Page

We are sure you will find our prices extremely attractive and look forward to the pleasure of receiving your valued order. Should you require any further clarifications on the above, please do not hesitate to get in touch with us.

Thanking you in anticipation and assuring you of our best services all the time.

Truly Yours,

FOR Tariq Electric (Pvt.) Ltd.

Touqeer Ahmad
 Manager Marketing
 0302-8413930

Muhammad Haris
 CEO
 0300-8492515



Ref No: TE-130-012023

Dated: 20-01-2023

No. of Pages: 01

"Annex A"

GENERAL TERMS & CONDITIONS:	
M/S: Asian Consulting Engineers	
Payment:	We request for 50% payment in advance with purchase order and Balance on final successful inspection Prior to delivery.
G.S.T & Taxes:	Quoted Prices are exclusive of GST which will be charged additionally @ 17 % . or applicable according to the law of Government of Pakistan. We are exempted from deduction of income tax (withholding tax), copy of certificate will be provided with the invoice. Please do not deduct the same.
NTN No.	3014488-4 STRN No. 310850013655
Validity:	Our offer validity is 10 days subject to not change of prices terms and conditions.
Prices:	Offered prices are based on the LME and current rate of copper and sheet metal. Any variation more than $\pm 2\%$ will be on customer account. Prices are calculated on present custom duties and government taxes, any change in government regulation will be on customer account. We have taken stock rate @ 1USD=230 PKR . Any change in exchange rate greater than 1% , the difference will be charged additional with the customer.
Delivery:	With in 08~10 Weeks at Ex-Work Lahore Basis , on confirmation of fully technically and commercially clarified order with advance payment. Delivery date may vary due to unavoidable circumstances like global shipment delays, Strikes, Govt Holidays, Lockdown, Pandemic, etc. Delivery will make in standard packing. wooden packing and Insurance charges will be on customer account.
Warranty:	Our supplied equipment will cover the complete warranty for the period of One Year from the date of supply. Any Type of Mishandling does not cover the warranty.
Delay in Pick up:	Storage charges of per week will be applied @ 0.1% of total PO Value if delay in pickup occurs from customer end. If delay is more than 4 weeks, Material may scrapped.
Cancellation of Order:	Following charges will be applied when a cancellation will be applied. 10% - Order received and entered on factory, work not started. 30% - Drawings for approval submitted. 40% - Job released for manufacturing. 60% - Material accumulated and production started. 80% - Readiness of Job. 100% - On FAT
L/D Clause:	Our current offer and commercial agreement is excluding from any L/D Clause. We will not liable for any liquidated damages, consequential and indirect damages.
Force Majeure:	Our offer is subjected to Force Majeure Clause including Pandemic influence.
Note:	1) Our offer is strictly limited to the supply equipment's as per attached BOQ. Any deviation shall be charged as per actual on customer's account.
	2) Installation Supervission, Testing and Commissioning at site is NOT in our scope of work. Unloading, Panel placement, cable termination, cable laying, panel coupling at site is NOT in our scope.



Ref No: TE-130-012023

Dated: 20-01-2023

					"Annex B"
Commercial Submittal					
M/S: Asian Consulting Engineers					
	Item Description	Qty.	Unit	Unit Price	Total Price
	Lt Switchgear				
1)-	20KVAR PFI	1	Nos.	192,203	192,203
2)-	10KVAR PFI	1	No.	119,475	119,475
Grand Total Exclusive of GST :					311,678

FOR Tariq Electric (Pvt.) Ltd.

Touqeer Ahmad
 Manager Marketing
 0302-8413930

Muhammad Haris
 CEO
 0300-8492515

 **Lahore:** Taj Garh Road, Yadgar Shuhada Stop, G.T. Road, Manawan, Lahore-Pakistan.
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 **Karachi:** 1st Floor, MA Tabba Foundation Building, Gizri Road, Block – 9, Clifton, Karachi.
 Cell: +92-301-1163120



Ref No: TE-130-012023

Dated: 20-01-2023

"Annex C"**Technical Submittal****M/S: Asian Consulting Engineers****General Enclosure Specifications:**

- ✘ MANUFACTURING STANDARD IEC 61439-2.
- ✘ ENCLOSURE PROTECTION Indoor TYPE. IP-40
- ✘ CUBICAL MATERIAL M.S SHEET THICKNESS 16-SWG.
- ✘ FULLY PAINTED AFTER SURFACE TREATMENT WITH ELECTROSTATIC POWDER PAINT RAL -7035.
- ✘ FOLLOWING COPPER BUSBARS DESIGNED ACCORDING TO IEC 61439-2.
- ✘ BUS BAR WILL BE ACCORDING TO BREAKER RATINGS.

1)- 20KVAR PFI**Qty 22 No.****Indoor (IP-40) Wall Mounted Cable Entry Bottom**

Sr. #	Item Description	Make	Model	Qty
Incoming				
1	Automatic Digital PFI Relay 12-Steps	Klemsan / Equ	STD	01 No.
2	Power Capacitor 12.5KVAR @ 440V	Iskra	STD	02 No.
3	TP Magnetic Contactor For 32A @ AC-3	ABB	AX32-30	02 No.
4	HRC Fuse Box	Efen / Equ	STD	02 No.
5	Aux. Contact Relay 4NO+4NC	Fuji/Equv.	STD	01 No.
6	Current Transformers 400/5A	Metelx / Eqv.	STD	01 No.
7	Auto-off-Manual Selector Switch	Camsco/Equv.	STD	01 No.
8	Push Buttons For ON/OFF	Schneider	STD	04 No.
9	Indication Lights ON,OFF	Schneider	STD	04 No.
10	S/Pole 06A MCB, For Control Circuit	ABB	SH 201	04 No.
11	Terminal Block	Klemsan/Equv.	STD	10 No.

2)- 10KVAR PFI**Qty 01 No.****Indoor (IP-40) Wall Mounted Cable Entry Bottom**

Sr. #	Item Description	Make	Model	Qty
Incoming				
1	Automatic Digital PFI Relay 12-Steps	Klemsan / Equ	STD	01 No.
2	Power Capacitor 12.5KVAR @ 440V	Iskra	STD	01 No.
3	TP Magnetic Contactor For 32A @ AC-3	ABB	AX32-30	01 No.
4	HRC Fuse Box	Efen / Equ	STD	01 No.
5	Aux. Contact Relay 4NO+4NC	Fuji/Equv.	STD	01 No.
6	Current Transformers 200/5A	Metelx / Eqv.	STD	01 No.
7	Auto-off-Manual Selector Switch	Camsco/Equv.	STD	01 No.

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"Annex C"

Technical Submittal				
M/S: Asian Consulting Engineers				
8	Push Buttons For ON/OFF	Schneider	STD	02 No.
9	Indication Lights ON,OFF	Schneider	STD	02 No.
10	S/Pole 06A MCB, For Control Circuit	ABB	SH 201	04 No.
11	Terminal Block	Klemsan/Equv.	STD	10 No.

