BID SCHEDULE

Name Of Work **RURAL WATER SUPPLY SCHEME AT VILLAGE NITHRANWALI TEHSIL KAMOKE DISTRICT GUJRANWALA**

A.A No.No.2/2-DDC- DD(Dev)/GRW/2021/4109-13, dated. 19.07.2021.

Approx Cost **Rs. 23.564 Million**

Earnest Money **Rs. 5 % Million**

T.S No.6454/B, Dated:- 24.07-2021

Time Limit **2 Years**

MRS, 2nd BI-ANNUAL-2021 (1st July-2021 to 31st December-2021) DISTRICT GUJRANWALA			Description of item	Quantity	Unit	Rate	Rate to be quoted by the contractor
Sr #	Ch No	Item No	**TUBE WELLS BORING AND ITS CONVERSION**				
1	23	5a.b	Direct rotary / reverse rotary drilling of bore hole for tubewells in all types of soil expect shingle gravel and rook. from ground level to 250' below ground level.				
			15" to 18" i/d	250.00	P.Rft	585.60	
			Exceeding 250'below 15" to 18" i/d	250.00	P.Rft	585.60	
2	23	7	Providing strong substantially built box of deodar wood 4'x2(1/2)x9" with compartments rock and locking arrangement for preserving samples of strata from bore hole.	1.00	Each	18410.50	
3	23	8	Furnishing sample of water from bore hole.	2.00	Each	170.70	
4	23	10 g	Providing and installing bail plug 'in tube well bore hole.	1.00	Each	3738.20	
5	23	14	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:-				
			8" I/d 3/16" thick	332.00	P.Rft	2044.35	
			12" I/d 1/4" thick	120.00	P.Rft	3338.90	
6	23	18	Shrouding with graded pea gravel 3/8" 1/8" around the tubewell in bore hole.	565.00	P.Cft	116.50	
7	23	16	P/F cutting jointing, testing of PVC pipe line of BSS class D working pressure. 2" i/d	144.00	P.Rft	168.30	
8	23	17	Testing and development of tubewell of size 6" I/d and above continiousaly 72- Hours Above 0.50 Cusec	72.00	P.Hour	1443.30	
			PUMPING CHAMBER 12' X 16'				
1	3	21b	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)in ordinary soil	509.00	%0Cft	8395.20	
2	6	3d	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-Ratio 1: 6:12	240.51	%Cft	13339.80	
3	7	4	Pacca brick work in F & P cement, sand mortar Ratio 1:5	353.20	%Cft	24897.95	
4	6	33 (ii)	Providing and laying damp proof course of cement concrete i:2:4 (using cement, sand and shingle) i/c bitumen coating.1½" thick with coat of bitumen and one coat of polythene sheet 500 gauge.	66.38	%Sft	5724.85	
5	7	5i	Pacca brick in ground floor in cement sand mortar 1:5	510.94	%Cft	26613.95	
6	7	30	supplying and filling sand under floor or plugging in well	346.50	% Cft	2070.00	
7	11	9b	Cement plaster 1 : 4 upto 20 ft. height 1/2 inch thick	835.75	%Sft	2383.45	
8	10	15c	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:-1½"(40 mm) thick	192.00	%Sft	4807.55	

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Contractor

9	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 (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:-	132.938	P.Cft	418.40	
10	6	6 a ii	(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 (a)(ii) Reinforced cement concrete in slab of rafts / stripfoundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects	5.81	P.Cft	304.40	
11	6	9b	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-40)	372.68	% Kg	20011.00	
12	25	31	Making and fixing steel grated door with 1/16" thick sheeting, i/c angle iron frame 2"x2"x3/8" and 3/4" square bars 4" centre to centre, with looking arrangement.	35.00	P.Sft	1439.20	
13	25	41-b (iii)	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-	48.00	P.Sft	624.80	
14	12	54	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.	48.00	P.Sft	321.45	
15	11	18a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hiehgt ratio 1:2	754.00	%Sft	2608.90	
16	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.	192.00	%Sft	8506.15	
17	11	25a-iii	White washing three coats:	864.00	%Sft	465.20	
18	9	14	Khassi parnala in cement sand mortar 1:2:12 out side width finished smooth with a floating coats of neat cement	14.00	P.Rft	134.80	
19	9	16	Bottom khura of brick masonry in cement mortar 1:6:4"x2"x4x4½" over 3" cement concrete 1:4:8	1.00	Each	1046.15	
20	10	3	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	77.86	%Cft	5649.60	

21	10	9	Brick on edge flooring laid in 1:6 cement mortar over a bed of 3/4" cement mortar.	207.63	%Sft	10834.20	
22	21	15a	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone ggregate, 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.	291.06	% Cft	6313.00	
			PUMPING MACHINERY				
1	24	13c vi	Supplying and erection of copper conductor cable for service connection 1- prelude/ G.I wire/ trenches etc. PVC insulated PVC sheathed 4-core 660/12317 volts non around cable 7/ 0.064"	100.00	P.Rft	275.50	
			DISTRIBUTION SYSTEM				
1	4	29	Dismantling brick or flagged flooring without concrete foundation.	20340.00	%Sft	673.20	
2	4	19c	Dismantling cement concrete 1:2:4 plain.	7175.00	% Cft	8712.00	
3	4	19d	Dismantling cement concrete with brick aggregate.	7175.00	% Cft	2376.00	
4	3	44	Earth work excavation of trenches in all kinds of soil expect cutting rock for water supply pipe line upto 5' depth from G.L I/c triming dressing sides leveling thebeds of trenchs to correct grade and profiles complete in all respect.	70340.00	%0Cft	5966.40	
5	23	42b	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects. PN-8 (SDR-21)				
			3" i/d	9870.00	P.Rft	122.50	
			4" i/d	780.00	P.Rft	188.65	
			6" i/d	920.00	P.Rft	387.80	
6	23	13(i)a	Pro/ and installing of PVC bail / end plug in tubewell bore hole 3" i/d	277.00	Each	66.90	
7	23	30	Providing and fixing sluice valve of BSS quality and quality and weight for A.C and PVC pipe line with comet joint and rubber complete i/c cost of joining material (Ch.23 Item 30)				
			3" i/d	8.00	P.Rft	8366.40	
			4" i/d	2.00	P.Rft	9565.20	
			6" i/d	2.00	P.Rft	18891.60	
8	23	33	P/F air valve 2 1/2" i/d of BSS quality and weight complete with jointing material double.	2.00	Each	8025.75	
9	7	30	Supplying and filling sand under floors or plugging in well.	68687.00	% Cft	2070.00	
10	7	4i	Pacca work in foudation and plinth ratio 1:5	773.00	% Cft	24897.95	
11	10	3	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	18768.00	% Cft	5649.60	
12	6	5f	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4	18768.00	% Cft	25344.00	
13	1	1	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.	16516.00	% Cft	6313.00	
			Sluice Valve chamber	**15.00**	Nos		
1	3	21b	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)in ordinary soil	1500.00	%0Cft	8395.20	
2	6	3d	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-Ratio 1: 6:12	140.70	%Cft	13339.80	
3	7	4i	Pacca work in foudation and plinth ratio 1:5	611.70	% Cft	24897.95	
4	6	5f	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4	21.60	% Cft	25344.00	

5	11	8b	Cement plaster 1 :3 upto 20 ft. height 1/2 inch thick	623.70	%Sft	2245.35	
6	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 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:-	151.07	P.Cft	418.40	
7	6	9b	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-40)	463.755	% Kg	20011.00	
8	23	28b	P/F C.I. surface box	105	P.Kg	110.90	
			Providing installation of house connection with PVC clump PPRC pipe 1/2" i/d upto 10 Rft with brass ferole, mm return valve, special as required at site. The rate also includding of trench up to pipe depth complete in all respect				
			ANAYLSIS FOR HOUSE CONNECTION 3" I/D PVC PIPE	**235**	**Nos**		
1	3	44	Earth work excavation of trenches in all kinds of soil expect cutting rock for water supply pipe line upto 5' depth from G.L I/c triming dressing sides leveling thebeds of trenchs to correct grade and profiles complete in all respect.	3760.00	%0Cft	5966.40	
2	23	22ii,b	Providing, laying, cutting, jointing, testing and disinfecting G.I pipeline in trenches, with socket joints, using GI pipes of B.SS 1387-1967 complete in all respects, with specials and valves, ii) Medium Quality.	1175.00	P.Rft	152.35	
3	3	13a	Rehandling of earthwork lead upto a single throw of kassi, phaorah of shovel. Compaction of earthwork (soft, ordinary or hard soil) ramming earthwork (all types of soil)	3642.5	%0Cft	1980.95	
			ANAYLSIS FOR HOUSE CONNECTION 4" I/D PVC PIPE	**50**	**Nos**		
1	3	44	Earth work excavation of trenches in all kinds of soil expect cutting rock for water supply pipe line upto 5' depth from G.L I/c triming dressing sides leveling thebeds of trenchs to correct grade and profiles complete in all respect.	800.00	%0Cft	5966.40	
2	23	22ii,b	Providing, laying, cutting, jointing, testing and disinfecting G.I pipeline in trenches, with socket joints, using GI pipes of B.SS 1387-1967 complete in all respects, with specials and valves, ii) Medium Quality.	250.00	P.Rft	152.35	
3	3	13a	Rehandling of earthwork lead upto a single throw of kassi, phaorah of shovel. Compaction of earthwork (soft, ordinary or hard soil) ramming earthwork (all types of soil)	775	%0Cft	1980.95	
			ANAYLSIS FOR HOUSE CONNECTION 6" I/D PVC PIPE	**20**	**Nos**		
1	3	44	Earth work excavation of trenches in all kinds of soil expect cutting rock for water supply pipe line upto 5' depth from G.L I/c triming dressing sides leveling thebeds of trenchs to correct grade and profiles complete in all respect.	320.00	%0Cft	5966.40	
2	23	22ii,b	Providing, laying, cutting, jointing, testing and disinfecting G.I pipeline in trenches, with socket joints, using GI pipes of B.SS 1387-1967 complete in all respects, with specials and valves, ii) Medium Quality.	100.00	P.Rft	152.35	
3	3	13a	Rehandling of earthwork lead upto a single throw of kassi, phaorah of shovel. Compaction of earthwork (soft, ordinary or hard soil) ramming earthwork (all types of soil)	310	%0Cft	1980.95	
14	3	17a,b,c	Transportation of all types when the total distance, i.c the lead covered in the item, is more than 1000 ft. upto 1 mile.	77515	%0Cft	3980.20	
			OVER HEAD RESORVIOR 10000 GALLONS CAPACITY				

1	22	1	Excavation of well in dry upto 20' (6 meter) below ground level and disposal of soil within one chain. a) In Ordinary soil	1492.48	%0Cft	5884.55	
2	6	5i	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio .1: 4: 8	192.55	% Cft	20018.40	
3	6	6 a ii	(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 (a)(ii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects	351.03	P.Cft	304.40	
4	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 (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:-	588.25	P.Cft	418.40	
5	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 (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:-	557.17	P.Cft	418.40	
6	1	1	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.	1479.44	% Cft	6313.00	
7	6	13a	Extra labour for laying concrete plain or reinforced:a) Above 20' upto 40' height	169.95	% Cft	3168.00	
			Above 40' upto 50' height	356.53	% Cft	5148.00	
			Above 50' upto 60' height	84.97	% Cft	7128.00	
			For every additional 10' height	285.61	% Cft	9108.00	
8	25	35	Providing and fixing terrace railing of 2" (50 mm) i/d doconduit pipe 16 SWG, welded with 5/8"x5/8" (16x16 mm) square bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects, as per design and drawing.	239.48	P.Rft	991.60	
9	23	36g	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe line in trenches, with flanged joints, using G.I pipe of B.S.S. 1387-1967 complete in all respects,including specials and valves:-G.I. flanged joints (Heavy Quality)	228.00	P.Rft	2068.60	
10	23	30	Providing and fixing sluice valve of BSS quality and quality and weight for A.C and PVC pipe line with comet joint and rubber complete i/c cost of joining material	3.00	Nos	18891.60	
11	7	4	Pacca brick work in foundation and plinth in cement sand mortor (1:5)	138.23	% Cft	24897.95	
12	18	19	Providing and laying dry brick pavement in streets or roads etc Sand grouted, laid in proper camber for preparation watering compaction ofbed toproper camber & sand cushion.	112.36	% Sft	21693.90	

13	6	28	Providing embeding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	52.00	P.Rft	213.00	
14	19	39	P/F C.I manhole cover 24" dia. I/c two coats of enamel paint	2.00	P.No	1508.50	
15	6	9	Fabrication of mild steel reinforcement for cement concrete I/c cutting, bending, laying in position weldam and fastening I/c cost of binding wire nd labour charges for binding of steel einforcement includes removal of rust from the bars.	5435.00	% Kg	20011.00	
16	10	21	1:3 thick mosaic flooring consisting of 3/8" mosaic topping of one part of cement and marble powder in the ratio 3:1 and two parts of marble and over the thick floor of 1:2:4 cement concrete i/c rubbing and ploshing complete.	176.63	% Sft	13733.55	
17	10	39	Skirting with one part of cement and marble powder in the eraction of 3:1 and two parts of marble chips laid over 1/2" thick cement plaster 1:3 polishing complete with finishing I/c rubbing and using grey cement 1/2" thick for tank walls.	518.43	% Sft	15293.60	
18	23	28	Providing and fixing cost iron special of BSS class-B (such as bend tee crose collar reducer tail piece flaged spigot flaged socket topper angle branch complete.	462.71	P.Kg	131.15	
			NON STANDARDIZE				
			ELECTRIC RESISTIVITY SURVEY AND GROUND WATER POTENTIAL INVESTIGATION				
1			Conduct electric resistivity survey of the technical most feasible and financial viable sites for the scheme, the no. of sites tentative and may very according to the site requirement, define verticle and horizontal extents of groundwater interfaces, esta	1	P.Job	120000.00	
2			Additional Ground water Potential Investigations				
i.			Establish sweet ground water recharge / seepage rate of potential groundwater site available in the close vicinity of the scheme and demarcate groundwater reservoir and its quantity.				
ii.			Establish sustainable groundwater safe yield and water quality of the proposed water source upto design period of the scheme due to groundwater water seepage / recharge.				
iii.			Establish vertical and horizontal sweet and saline groundwater interface in the area before and after consinuous groundwater abstraction.				
iv.			Study the groundwater quality in the area, develop groundwater quality profile and groundwater contamination potential theats of the area upto the design period of the scheme and suggest remedial measures.				
v.			Establish exact locations of the proposed water suorces along with their survey coordinates, bench marks.				
vi.			Establish parameters of tubewells like drawdown, specific capacity, depth size of boring, thickness of gravel pack design of sizes of strainer.				
3			Report writing including interpretation of electric resistivity survey data ground water investigation data, evaluation of data, methodology, test results, approach, conclusion and recommendations etc.				
			TUBE WELLS BORING AND ITS CONVERSION				

1			Provisivision made for water supply well for tubewell boring through direct rotary, reverse rotary, lowering 8" i/d 3/16" thick M.S. pipe and shrouding up to depth of 80 ft below ground level, hire charges of bowl assembly, column pipe, tubes & shaft 6 cylender 24BHP diesel engine with gear head to make to make the horizontal to vertical running. Rate also includes the higher charges of vertical turbine, dieselengine, Labour & operator and P.O.L & water charges for the whole period for installation of main tube well complete in all respect to the entire satisfaction of the Engineer in charge.	1.00	Each	128343.00	
2			Providing and installing, fiber glas FRP strainer in tubewell bore hole, including socket specials interval socket iron locking shaps blind pipes with graded sockets joints and from the strainerwith M.S. blind pipe complete in all respect to the entire satisfaction of the Engineer in charge. 8" i/d 6mm thick.	48.00	P.Rft	2100.00	
3			Providing sanitary seal 1:1 cement sand mortar in bore hole & plug the top water layer of water complete in all respect to entire satisfaction of the engineer - in-charge	65.00	P.Rft	270.00	
4			Provision made for puddle seal 6ft long.	1.00	Each	1044.70	
5			Providing & Fixing GI Sheet funnel in the top of PVC pipe for pouring shrouding material	2.00	Each	700.00	
6			Provision made for electric well logging from the expert firm.	1.00	P.Job	60000.00	
7			Providing and fixing 1/2" I/d thick M.S Cap for 12" I/d housing pipe joint by means of welding & hinges with lock & locking arrangements	1.00	P.Job	1000.00	
8			Providing and fixing suspension clamp to be found on 12" i/d M.S. housing pipe. Clamp will be made of 4" wide 1/2" thick 4' long with 6 No. 3/4" dia fully threaded nut bolts, washers including providing, welding M.S stiffoners at least 6 No. on housing pipe. Rate also includes the cost providing PCC1:2:4 Block of 4'x4'x2' size around the housing pipe for grouting in clamp. Complete in all respect to the entire satisfaction of the Engineer incharge.	1.00	P.Job	9000.00	
			PUMPING CHAMBER12' X 16'				
1			Providing and fixing R.S. joist	13.50	P.Rft	950.00	
2			Provision for electric fitting / ceiling fan 56" sweep with dimer and jointing wire etc.	1.00	No	4000.00	
			PUMPING MACHINERY				
1			Supplying and installation at site and testing of HUD & PHE Department approved manufacturer vertical turbine pump having discharge of 0.50 cusec against total head170ft with 90 ft length of column pipe, bowl assembly coupled with 20 BHP or higher as recommended by the manufacturer 380/440 volts, 50 cycle, A.C. vertical electric motor (Siemen, Nueman) including cost of electro-mechanical component as below.(a. to o)	1.00	Set	2050000.00	
a.			Providind errection of (ASD) pump manufacturers made automatic motor control unit (MCU) for 15BHP electric motor comprising on ASD star delta starter main circuit bracker, connectors, over load relay, over/ under voltage protection relay, phase failure & phase reversal protection, volt meter ampere meter, indication bulbs for on / over load / volt protection / all faults which are likely to be required in the pump set, current transfomer, on off push buttons all contrained in a lockable steel cabinet complete in all respect.				
b.			Providind fixing Iron clad main switch (Fico / Anchor China) of 60 Amp. With 3 No. volt meter, ampere meters fitted on M.S. pannel board of 4' x 3' size made of 4 mm M.S. sheet on 1½"x1½"x3/16" angle iron frame duly painted, fixed on wall of pump house, complete in all respect.				

c.			Power wiring 07/0.044" or higher gauge for 15 BHP A.C. electric motor gauge single core PVC insulated copper wire in PVC pipes of suitable size including flexible pipes, thimbles etc. complete from main switch to motor starter, pannel to motor.				
d.			Double point power earthing, according to WAPDA specification, of electric pannel board, main switch and motor in 8 SWG / G.I. wire duly encased in 3/4" in side dia PVC pipe laid from earthing point to pannels, mainswitch and electric motor.				
e.			Single phase light wiring in 3/029 size PVC insulated copper wire duly encased in PVC pipes of appropriate size including 1 No. single phase 15 Amp. Main switch pak made 1 No. power out let of 15 Amp. 2 Nos. water proof bulk head lights with bulbs fixed out side the pump house and 2 No. brackets with bulbs in side the pump housecomplete with necessary control switches including connection within existing single phase energy point.				
f.			Providing & laying of (1:2:4) pcc pump foundation of required size and depth with 4 No. foundation bolts complete in all respect.				
g.			Supplying of tool kit comprising of one china spanner set, one China screw wrench, of 12" size one china insulated pliers 8" size and one china screw driver set, one grease gun etc. (1- set)				
h.			Providing and fixing, sluice valve of B.S.S. quality and weight, for PVC pipe line, with comet joint and rubber ring, complete (including cost of jointing materials):- 4" i/d 1 No.				
i.			Providing and fixing, Non return valve of B.S.S. quality and weight, for PVC pipe line, with comet joint and rubber ring, complete (including cost of jointing materials):- 4" i/d 1 No.				
j.			Providing & fixing base plate of 1/2" thick of suitable size properly grouted in foundation i/c nuts and bolts complete in all respect. (1 No).				
k.			Obtaining electric fitting report from LESCO (WAPDA) by the approved contractor.				
l.			Pressure gauge of range up to 200 psi with 1/2" i/d 'B' class G.I. pipe ferrule 1 No. plug cock (sui gass type) fixed on wall in side the pump house complete including all jointing materials.				
m.			Providing & fixing of 8"i/d 3/8" thick M.S. pipe for delivery of pump up to required length with specials and flanges with jointing material complete in all respect to the entire satisfaction of the Engineer in charge.				
n.			Painting of delivery pipe fittings specials in 2 coats of black enamel paint on single coat of red lead primer paints as per standard drawing complete.				
o.			Providing & hanging in a suitable location along the wall of pumping chamber, duly glass framed chart showing detailed inventory of pumping machinery and all its components asper size & design approved by the Engineer in charge.				
			Providing & installing chain pully block China made 3- ton capacity with 5 meter chain complete with M.S. clamp for fixing with existing R.S. joist and hoisting sling of 3/4" size wire rope of 6 feet length.	1	Each	15000	
			Providing and fixing diesel engine two cylender 52 BHP along with clutch arrangment with handle, gair head horizontal to vertical cross (local made), Providing fixing stool for separate operation including the cost of RCC foundation of 5'x2-1/2'x1-1/2' (depth variable but not less than 1-5'). Provision of fuel tank with fuel injecting pipe and fuel drum. The rate also includes the cost of carriage loading unloading, labour charges for fixing complete in all respect to the entire satisfaction of the Engineer in charge.	1	Set	650000	
			DISTRIBUTION SYSTEM				

1			Cutting of P.C.C with mechnical cutter to maintain the design water supply trench width as per satisfaction of the Engineer incharge.	16720.00	P.Rft	85.00	
2			Providing and fixing fittings of HDPE such as Tees, Bends, Cross, Collar, Reducer, and Tail piece etc.				
		i)	**Equal Tee**				
			Tee 160 mm	7	Each	8056.86	
			Tee 110 mm	7	Each	3246.31	
			Tee 90 mm	12	Each	2284.95	
		ii)	**Stop End**				
			Stop End 90 mm	30	Each	1624.41	
		iii)	**Reducer**				
			Reducer 160x110	3	Each	3366.63	
			Reducer 160x90	5	Each	3366.63	
			Reducer 160x50	7	Each	3366.63	
			Reducer 110x90	15	Each	1504.08	
		iv)	**Elbow**				
			Elbow 160 mm	2	Each	5410.93	
			Elbow 110 mm	20	Each	2886.58	
			Elbow 90 mm	70	Each	1562.99	
		v)	**Straight Coupler**				
			Flange 90 mm	25	Each	1881.35	
			Flange 110 mm	12	Each	5733.05	
		vi)	**Flanges**				
			Flange 90 mm	90	Each	1880.1	
			Flange 110 mm	30	Each	3133.5	
			Flange 160 mm	10	Each	4386.9	
			ANAYLSIS FOR HOUSE CONNECTION 3" I/D PVC PIPE	**235**	**Nos**		
1			Providing and fixing PVC clamp including nuts bolts on pipe of approved best quality complete in all respect to the entire satisfaction of the Engineer in charge.	235.00	Each	350.00	
2			Providing and fixing brass ferrule valve of best quality (300 gram weight) complete in all respect to the entire satisfaction of the Eningeer in charge.	235	Each	500.00	
3			Providing and fixing PPRC pipe for house connection including (bends reducer or adopter) complete in all respect to the entire satisfaction of the Eningeer in charge.	2350	P.Rft	80.00	
			ANAYLSIS FOR HOUSE CONNECTION 4" I/D PVC PIPE	**50**	**Nos**		
1	3	44	Providing and fixing PVC clamp including nuts bolts on pipe of approved best quality complete in all respect to the entire satisfaction of the Engineer in charge.	50.00	Each	400.00	
2	23	22ii,b	Providing and fixing brass ferrule valve of best quality (300 gram weight) complete in all respect to the entire satisfaction of the Eningeer in charge.	50	Each	500.00	
3	3	13a	Providing and fixing PPRC pipe for house connection including (bends reducer or adopter) complete in all respect to the entire satisfaction of the Eningeer in charge.	600	P.Rft	80.00	
			ANAYLSIS FOR HOUSE CONNECTION 6" I/D PVC PIPE	**20**	**Nos**		
1	3	44	Providing and fixing PVC clamp including nuts bolts on pipe of approved best quality complete in all respect to the entire satisfaction of the Engineer in charge.	20.00	Each	475.00	
2	23	22ii,b	Providing and fixing brass ferrule valve of best quality (300 gram weight) complete in all respect to the entire satisfaction of the Eningeer in charge.	20	Each	500.00	
3	3	13a	Providing and fixing PPRC pipe for house connection including (bends reducer or adopter) complete in all respect to the entire satisfaction of the Eningeer in charge.	240	P.Rft	80.00	
			OVER HEAD RESORVIOR 10000 GALLONS CAPACITY				

1			Structural Design for OHR including soil investigation for determining the safe bearing capisity and foundation depth. The design should safe against wind pressure and seismic forces specified / expected for the area in in which OHR is to be constructed.				
			a) soil investigation including travelling, sampling, testing	1.00	P.Job	50000.00	
			b) Structual drawing and design detailing	1.00	P.Job	50000.00	
2			Providing and fixing float system and water level indicator guage	1	P.Set	35000	
3			Painting of steel worn with water resisting paint on single coat of red lead primer. (02 Coats).	1.00	P.Job	15000.00	
4			Providing fixing on top of tank slab two No. red air warning lights with necessary wiring in 3.029 electric cable encased in 3/4" i/d PVC conduit pipe fixed on tank pillars walls under floor from air warning lights to ground level necessar control switches and connection there of with exsting electric point complete I/c testing and connections.	1	P.Set	30000	
5			Lightening conductor 1" x 1/8" copper strip to earthing point 30ft from tank including earthing. Including manhole excavation & refilling & cost of chamber.	1.00	P.Job	25000.00	
			DEDUCTION COST OF OLD MATERIAL				
			Old Brick	72557.00	%0Cft	4000.00	
			Old Brick Bats	2221.00	% Cft	2000.00	
1							

0.000

CONDITIONS: -

1 Conditional tenders / rates will not be entertained.

2 Construction schedule towards completion of work should be provided by the Contractor within one week of the issuance of acceptance letter.

3 Any item of work not included in this bid but during execution actually required to be executed at site will be paid after approval by the competent authority.

4 Any item of work not included in this bid but during execution actually required to be executed at site will be paid after approval by the competent authority.

5 The work should be executed in accordance with the availability of funds as required under Rule 2.82 of B&R Code. The department will not accept any responsibility for loss sustained by the contractor due to interruption of work as a result of shortage of funds, delay in supply of material / labour or any other reason whatsoever related for completion of work.

6 Any omission / error there in, for interpretation will be referred to rates standardized on the basis of " Market Rate System" for the MRS, 2nd BI-ANNUAL-2021 (1st July-2021 to 31st December-2021) DISTRICT GUJRANWALA., in accordance with Government of the Punjab, Finance Department Notification No. RO9TECH)FD-2-3/2004, dated Lahore the 2nd August, 2005 and the decision of the competent authority will be final and binding upon the contractor.

7 The execution / completion of work strictly in accordance with the specifications, approved design / drawings and requirements of contract agreement to the entire satisfaction of the Engineer-in-Charge will be exclusive responsibility of the contractor.

8 All the conditions of "Revised Contract Agreement" and conditions mentioned in the DNIT will form part of the agreement and binding upon the contractor.

9 As per Government of the Punjab, Finance Department, Notification No. RO(Tech)FD1-2/83(VI)(P) dated Lahore the 6th April, 2005, in case the total tendered amount is less than 5% of the approved estimated (DNIT) amount, the lowest bidder will have to deposit an additional performance security from the Schedule Bank equal to the tendered amount below estimated cost, within 15 days of submission of tenders or within expiry period of the bid, whichever is earlier.

10 In complience of clause 56 of PPRA rule 2014 ammended upto date, the successful bidder has to deposit performance gurantee @ 5% of the contract amount.

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG:DIVISION
GUJRANWALA

Contractor / Firm

Name:- _____

Cell No. _____

CNIC No.

_____