

PART-VI :- CONSTRUCTION OF WORK OF PUMPING STATION FOR WATER SUPPLY SYSTEM in katchi BASTIES at JAISALMAR

ABSTRACT OF BOQ FOR CONSTRUCTION OF WORK OF PUMPING STATION FOR WATER SUPPLY SYSTEM in katchi BASTIES at JAISALMAR.

part (a)			AS PER PWD BSR 2009 JAISALMER CIRCLE			
S.No.	BSR NO	Description	Unit	Qty	Rate	Amount
1	1.8	Earth work in excavation in foundation trenches or drains including dressing of sides and ramming of bottoms, lift up to 1.5 Mtr. Including taking out the excavated soil and depositing and refilling of jhiri with watering & ramming and disposal of surplus excavated soil as directed with in a lead of 50 meter. All kinds of soil	cum	254.86	150.00	38228.63
2	3.2	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering. All work up to plinth level. 1:2:4 (1 cement :2 coarse sand: 4 graded stone aggregate 40mm nominal size).				0.00
	3.2.3		Cum	39.43	2370.00	93454.51
3	4.1	Providing and laying in position specified grade of reinforced cement concrete including curing, compaction, finishing with rendering in cement sand morfar 1:3 (1 cement; 3 Coarse send) and				0.00
	4.1.2	M 20 Nomial mix	Cum	74.33	2936.00	218246.09

4	4.2	Reinforced cement concrete work in walls (any thickness) including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor three level including curing, compaction, finishing with rendering in cement sand mortar 1:3 (1 Cement : 3 coarse sand) and making good the joints excluding cost of centering shuttering and reinforcement:				0.00
5	4.2.2	M 20 Nomial mix (with 20mm nominal size graded stone	Cum	52.37	3016.00	157947.47
6	4.3	Reinforced cement concrete work in beams, suspended floors, roofs, griders having slpes up to 15o, landings, balconies, shelves, chajjas, lintels, bands, plain windows sills, staireases and spiral staircases up to floor three level including curing, compaction, finishing with rendering in cement sand mortar 1:3 (1 1 Cement : 3 coarse sand) and makinggood and joints excluding the cost of centering, shuttering and reinforcement:				0.00
	4.3.1	M 20 Nomial mix (with 20mm nominal size graded stone aggregate)	Cum	4.64	3130.00	14535.72
7	6.1	Random Rubble stone masonry for foundation and plinth in Cement				0.00
	6.1.7	Cement mortar 1:6 (1 cement : 6	cum	90.85	1303.00	118377.55
8	6.2.7	Random Rubble stone masonry for superstructure above plinth level one stoney height above 30 cm thick walls in: c.cae 1:6	cum	83.35	1581	131776.35

9	11.35	polished blue kota stone flooring skirting laid over 20 mm th. Base of C.M 1:4 and jointed with grey cement slurry to match the shade of th slab including rubbing and polishing complete for each slab 901 to 2000 sqcm 25 mm thick				0.00
	11.35.2	25 mm thick.	SQ.M	140.25	516.00	72369.00
10	11.37.2	Polished Blue Kota slabs 25 mm thick in risers of steps, skirting, dado and pillars having fine machine cut edges laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	SQ.M	12.18	475	5783.13
11	12.9	Plaster on new surface on wall in cement sand mortar 1 : 6 including raking of joints etc. complete fine finished: 25mm thick				0.00
	12.9.1	1:6 (1 cement: 6 sand)	SQ.M	1002.43	99.00	99240.82
12	9.23	Supplying and fixing rolling shutters of approved make, made of 80X1.25mm MS laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for in side and out side locking with push and pull operation complete including the cost of spring grade No 2 and MS top cover 1.25mmthick for rolling shuttersas per design(clear openable area to be measured for payment).	SQ.M	5.8	1150	6624.00
13	9.24	Providing and fixing ball bearing for rolling shutters.	EACH	1	200.00	200.00

14	16.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth,rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling,C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately)				0.00
15	16.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).				0.00
16	16.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	252.72	356	89968.32
17	4.13	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire up to floor two level including all wastage etc. complete.				0.00
	4.13.4	Tremo Mechanically treated bars	KG	6580	53	348740.00

18	5.1	Half brick masonry with M.S. bricks of class designation 75 in superstructure above plinth level up to floor II level.				0.00
	5.10.2	Cement mortar 1:4 (1 cement :4 sand)	SQ.M	16.8	219	3674.82
19	4.11	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete up to plinth level:	SQ.M	150.39	82	12331.98
20	4.12.2 (A)	Suspended floors, roofs, landings, balconies and access platform. Shelves (Cast in situ) Lintels, beams, beams, girders, bressumers and cantilevers, Columns, Pillars, Posts and Struts Walls in super structure.	SQ.M	179.94	137	24651.78
21	4.12.4	All types of staircases including riser & landing.	SQ.M	5.70	119	678.30
	A	total cost = Rs.				1,443,596
		TOTAL OF part (a)				1436828.45

part (b) sanitary works

			AS PER PWD BSR 2009 JAISALMER CIRCLE			
S.No.	BSR Item No.	Description	Unit	QTY	Rate	AMOUNT
1	1.4	P & F European type white glazed vitreous china 1st quality W.C. (I.S. : 2556 Mark) including cutting and making good the wall and floor				
			Each	1.00	798.00	798.00
2	1.8	P & F water closet Seat Cove				0.00
	1.8.1	Solid PVC (ISI marked) grade-I Black for EWC,	Each			0.00
	1.8.2	do- White	Each	1.00	300.00	300.00
3	1.22	P & F Low level Flushing Cistern of 10 litres capacity (IS : 2556 mark). Of approved make with complete fittings C.I. brackets duly painted, brass ball cock with ball, (IS : 1703 mark) complete including cutting and making good the wall :				0.00

	1.22.1	WVC with C.P. brass bend.	Each	1.00	1314.00	1314.00
4	1.39.6	P & F WVC wash basin (1 st quality, I.S. : 2556 Mark) of approved make with C.I. brackets duly painted, 1 No. 15 mm C.P. Pillar cock (I.S. : 8934 Mark) & 32mm C.P. brass waste coupling of approved make, 25 mm G.I. waste pipe complete including cutting & making good the wall 580 X 450mm.		0.00	0.00	0.00
5	1.39.12	Size 630 mm x 500 mm dia for counter top	Each	1.00	1774.00	1774.00
5	1.47	P & F Reveled ledge Mirror of Special glass of approved make (Atul/equivalent) complete with 6mm thick asbestos cement sheet ground fixed to wooden screws & washers.				0.00
	1.47.2	Other sizes	Sqm.	1.00	715.00	715.00
6	1.50	P & F Towel Rail or Ring of approved quality/make :				0.00
	1.50.2	(-do-) 600mm. (Heavy duty)	Each	1.00	330.00	330.00
7	1.51	P & F Grating of approved quality/make:				0.00
8	1.51.5	(-do-) Square 150 x 150 x 8mm. (Anti Cockroach)	Each	3.00	176.00	528.00
9	1.55	P & F Soap Dish or Tray of approved quality/ make				0.00
	1.55.2	C.P. brass heavy and superior quality.	Each	1.00	66.00	66.00
10	1.58	P & F Bath Shower of approved quality/ make.				0.00
						0.00
11	2.1	P & F G.I pipes (internal Work) with G.I. Fittings (IS: 1239 Mark) & MS clamps including cutting and making good the walls and floors:				0.00
	2.1.1	15mm dia nominal bore	Mtr.	10.00	90.00	900.00
	2.1.3	25mm dia nominal bore	Mtr.	10.00	151.00	1510.00
						0.00
12	2.2	P & F G.I. Pipes (External Work) with G.I, fittings (IS: 1239 Mark) including trenching & refilling earth etc.				0.00
	2.2.1	15mm-dia nominal bore	Mtr.	10.00	85.00	850.00
						0.00
						0.00
13	2.7.1	P & F Bib Cock (IS :8931 Mark), Superior quality of approved make:				0.00

		(do) Long nose, 15mm nominal bore weight not less than 810gm	Each	2.00	183.00	366.00
						0.00
14	2.8	P & F Stop Cock (IS :8931 Mark), superior quality & of approved make:				0.00
	2.8.5	(-do-) Concealed stop Cock 15mm.	Each	1.00	513.00	513.00
15	2.11	P & F Ball Cock (IS : 1703 Mark) with Rod & P.V.C. Ball complete:				0.00
	2.11.3	Brass wt. 1000 gm, 25mm.	Each	1.00	274.00	274.00
16	2.12	P & F Inlet Connection (Angle Valves) Superior quality, of approved make, for Wash basin, Gyser etc.				0.00
	2.12.3)---do--- with 37 cm long thread and nut	Each	3.00	450.00	1350.00
						0.00
17	2.15	P & F Full-way Valve (IS:778 Mark) or wheel valve of approved make:				0.00
	2.15.3	Gun-metal 25mm nominal bore.	Each	1.00	358.00	358.00
						0.00
18	2.26	P & F PVC Stroage Tank (IS : 12701 marked indicating the BIS license No), of approved make with cover, 25mm dia 1 M long G.I. over-flow pipe & 25 cm. long wash out pipe with plug & socket, including making connection etc. complete of approved design:				0.00
	2.26.8	3000 litres capacity	Each	1.00	15345.00	15345.00
19	3.1	Providing Laying & jointing glazed S.W pipes grade 'A' (IS:651 marked) of approved make with spun yarn & shiff mixture of cement mortar 1:1, excavation & refilling of earth in all types of soil upto 1.2m depth, S.W. fittings, including testing of joints etc, complete.				0.00
	3.1.2	150mm dia	Mtr.	10.00	150.00	1500.00
						0.00

20	3.2	Providing & Laying C.C. 1:5:10 (Stone aggregate 40mm nominal size) all around S.W. pipe including 15 Cm. thick bed concrete as per Rajasthan P.W.D. Specifications : (Width W= Diameter of pipe in Cm+40 Cm.) (Excluding cost of pipe)				0.00
	3.2.2	150mm dia S.W. pipe	Mtr.	8.00	216.00	1728.00
	3.2.3	200mm dia S.W. pipe	Mtr.	8.00	251.00	2008.00
						0.00
21	3.19	P & F rigid PVC Pipe (IS : 4985 mark) class II/(4 Kg./Cm ² .) approved quality/ make including joining the pipe with solvent cement rubber ring and lubricant.				0.00
	3.19.2	75 mm dia	Mtr.	10.00	104.00	1040.00
						0.00
22	3.21	Construction of manhole in all type of soil inner size 90 X 60 Cm. thick masonry in CM 1:6, 10 Cm. thick cement concrete 1:5 10 in foundation, 20mm thick inside plaster in CM 1:6, finished with floating neat cement, 50mm thick M-15 grade C.C. flooring, making channels, 80mm thick stone slab covering with 40mm thick M-15 grade C.C. flooring, 25 Kg. CI cover with frame of 450mm dia, earthwork etc. complete as per design including disposal of surplus earth within 50 mtr. lead.				0.00
	3.21.1	Depth upto 0.5 m	Each	1.00	1740.00	1740.00
						0.00

23	3.22	Construction of Man hole, in all types of soil, inner size 1.5 x 1.2 m, with 450mm thick masonry in CM 1:6 10cm. Thick cement concrete 1:5:10 in foundation, 20mm thick inside plaster in CM 1:6, finished with floating neat cement, 50 mm thick M-15 grade C.C. flooring making channels, 80mm thick stone slab covering with 40mm thick M-15 grade C.C. flooring, 38 Kg. C.I. cover with frame of 450mm dia. earthwork etc. complete including disposal of surplus earth within 50 mtr. lead as per design:				0.00
	3.22.1	Depth upto 1.5M	Each	1.00	1740.00	1740.00
23	3.23	Construction of Chamber in all type of soil with 30 mm thick masonry in C.M. 1:6 m 100 mm thick C.C. 1:5:10 in foundation, 20mm thick inside plaster in C.M. 1:6, finished with floating neat cement, 50 mm thick M-15grade C.C. flooring, earthwork etc. complete as per design including disposal of surplus earth within a lead of 50 mtr.				0.00
	3.23.2	(-do-) size 450 x 450 mm upto depth of 0.5mm & 15 Kg. C.I. Cover with frame.	Each	2.00	731.00	1462.00
						0.00
24	3.40.A	Construction of Cement Concrete Chamber 125mm dia on depressed floor upto 45 cm height from floor with:				0.00
	3.40A.1	C.P. Brass grating	Each	3.00	144.00	432.00
						0.00
25	3.43	Providing and Fixing Spun- Cast Iron floor trap (Nahani) of (IS : 3989 Mark) approved quality/ make with socket down or hinged grating including cutting and making good the floor :-				0.00
	3.43.2			1.00	510.00	510.00
		Total of part (b) = Rs.				39451.00

part (c) Electric works

AS PER PWD BSR 2008 JAIPUR CIRCLE, FOR ELECTRIC WORKS						
S.No.	BSR Item No.	Description	Unit	QTY.	Rate	Amount
1		Wiring of light point/fan point/exhaust fan point/call bell point with 1.5 sq. mm FR PVC insulated unsheathed flexible copper conductor 1.1 kV grade and 1.5 sq. mm FR PVC insulated unsheathed flexible copper earth conductor 1.1 kV grade (IS:694) of approved make in surface/recessed ISI marked medium duty PVC conduit & it's accessories, round tiles, 18 SWG M.S. box with earthing terminal, 6 A switch, 3.0 mm thick phenolic laminated sheet, zinc plated/brass screws, cup washers, making connections, testing etc. as required.(GROUP 2)				
	E020101	Short point (up to 3 mtr.)	P.point	8	171.00	1368.00
	E020102	Medium pont (up to 6 mtr.)	P.point	8	303.50	2428.00
	E020103	Long point (up to 10 mtr.)	P.point	8	444.50	3556.00
2		Wiring of twin control light point with 1.5 sq. mm FR VPV insultated unsheathed flexible copper conductor 1.1 kV grade and 1.5 sq. mm FR PVC insulated unsheathed flexible copper earth conductor 1.1 kV grade (IS : 694) of approved make in surface/recessed ISI marked medium duty PVC conduit & it's accessories, round ties, 18 SWG M.S. box with earthing terminal, 6 A two way switch, 3.0 mm thick phenolic laminated sheet, zinc plated/brass screws, cup washers, making connections, testing etc. as required.				0.00
	E020201	Short point (up to 3 mtr.)	P.point	1	188.50	188.50
	E020202	Medium pont (up to 6 mtr.)	P.point	1	339.50	339.50
	E020203	Long point (up to 10 mtr.)	P.point	1	498.00	498.00

3		Wiring of 3 pin 5 amp. Light plug point with 1.5 sq. mm FR PVC insulatedd unsheathed flexible copper conductor 1.1 kV unsheathed flexible copper earth conductor 1.1 kV grade (IS:694) of approved make in surface/recessed ISI marked medium duty PVC conduit & it's accessories, 18 SWG M.S. box with earthing termina, 6 A switch, 6 A socket, 3.0 mm thick phenolic laminated sheet, zinc plated/brass screws, cup washers, making connections, testing etc as required.(GROUP 2)				0.00
	E020301	On board	P.point	5	59.00	295.00
	E020303	Medium point (up to 6 mtr.)	P.point	4	214.50	858.00
	E020304	Long point (up to 10 mtr.)	P.point	4	488.00	1952.00
4		S&F following sizes dia of ISI marked medium duty PVC conduit along with accerssories in surface/recessed using saddlee, clamps,fastners as required including cutting the wall and making good the same as required 25 mm				0.00
	E020401	20 mm	R. mtr.	30	21.00	630.00
	E020402	25 mm	R. mtr.	10	29.00	290.00
	E020403	32 mm	R. mtr.	10	44.00	440.00
5		Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor SI marked (IS : 694) of 1.1 kV grade and approved conduit/casing capping including making connections etc. as required.				0.00
	E040102	2 X 1.5 sq. mm	Mtr.	25	19.00	475.00
	E040107	2 X 2.5 sq. mm	Mtr.	25	28.50	712.50
	E040113	2 X 4.0 sq. mm	Mtr.	25	43.00	1075.00
	E040119	2 X 6.0 sq. mm	Mtr.	25	67.00	1675.00
	E040125	4 X 10.0 sq. mm	Mtr.	25	209.50	5237.50

6	E040200	Supplying and drawing PVC insulated and unsheathed stranded/solid ISI marked aluminium conductor (IS : 694) of 1.1 kV grade of approved make in existing surface or recessed conduit/casing capping including making connections etc. as required.				0.00
	E040224	4 X 10.0 sq. mm	Mtr.	25	37.00	925.00
7		Supplying and drawing PVC/ Polythene insulated and PVC sheathed unarmoured/armoured telephone cable with 0.5 mm dia. Tinned/annealed copper conductor taped & confirming to ITD specification S/WT - 129C of approved make in existing surface or recessed conduit/casing capping.				0.00
	E040411	1 pair	Mtr.	20	5.50	110.00
8	E046000	Supplying and fixing of power plug point accessories on 18 SWG metal box of size 175 X 100 X 60 mm. on surface or in recessed with suitable size phenolic laminated sheet cover including cost of 6 pin 16 amp. Switch and socket outlet making connection, testing, etc. as required.	Each	6	140.00	840.00
9	E050100	P & F 18 SWG Sheet steel boxes duly finished with two coats of red oxide and with earthing terminal of following sizes (nominal size) on surface or in recessed as required.				0.00
	E050103	150mm X 75mm X 60mm	Each	6	38.00	228.00
10	E050500	P & F sheet for boxes/ frames including making holes for switches etc, with brass screws, washers/ zinc plated nut and bolts as required.				0.00
	E050521	4.8mm thick	Sqm	1	676.00	676.00

11		P&F 240/415 V MCB of breaking capacity not less than 10 KA (B/C/C tripping characteristic) ISI marked IS 8828 (1993)/ conforming to IEC 60898 in existing board/sheets including making connections with lugs, testing etc. as required.				0.00
	E060111	0.5 A to 4 A rating	Each	4	206.00	824.00
	E060112	6 A to 32 A rating	Each	4	151.00	604.00
12		P&F 240/415 V isolator conforming to IS : 13947-III/IEC 60947-3 on existing board/sheet including making connections with lugs, testing etc. as required.				0.00
	E060212	63 A rating	Each	2	367.00	734.00
13		P&F of RCBO with overload, short-circuit and earth leakage protection ISI 61009/1 complete in all respect including making connections with lugs, testing etc, as required.				0.00
	E060311	16 A rating	Each	1	1855.00	1855.00
14		P&F Recessed/surface mounting heavy duty horizontal type sheet steel Distribution board phophatised/powder painted complete with copper bus bar, shorting link, neutral link, earth link and din bar, conforming to IS 13032 & IS 8623 including making internal DB terminations with copper lugs, testing etc, as required				0.00
	E060515	16 Way	Each	1	680.00	680.00

15	E150300	Plate Earthing as per IS : 3043 with copper Earth plate of size 600mm x 600mm x 3.0mm by embodying 3 to 4 Mtr. Below the ground level with 20 m dia. G.I. 'B' class watering Pipe including all accessories like nut, blots, reducer, nipple, wire meshed funnel, and brick masonry finished chamber covered with ferro cement cover C.I. Frame of size 300mm x 300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required.	Each	1	4725.00	4725.00
	E150500	S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required.				
	E150501	6 SWG copper Wire	Mtr.	15	91.58	1373.70
16	E150600	S & Laying following size 'A' class G.I. Pipe with accessories for laying earth conductor/strip in ground/surface/recess as required				0.00
	E150606	50 mm dia.	Mtr.	5	202.00	1010.00
17	E170400	P&F double ball bearing capacitor start ceiling fan of approved make complete with regulator and other accessories as required. (for estimation purpose only)				0.00
	E170403	1200 mm sweep	Each	10	1203.00	12030.00
18	E170500	P&F 1.6 mm thick M.S. Recessed fan box, hexagonal/round of size 100 mm dia, depth 75mm, 12 mm dia rod fan hook with 100mm length extended on each side.	Each	10	51.00	510.00

19	E190100	P&F strip type fluorscent tube fitting fabricated from CRCA sheet and finished with powder coating/stove enameled paint complete with accessories like copper wound polyester/open constructin (VPIT) ballast, starter, starter seat, rotor holder, terminal block duly prewired with copper conductor including making connection, testing etc. as required. (without tube)				0.00
	E190102	1 x 36 Watts	Each	11	266.00	2926.00
20	E190700	P&F Fluorscent tube rod in existing fixtures as required				0.00
	E190712	36/40 Watts	Each	11	46.00	506.00
		Total of part (c) = Rs.				52574.70
		Grand total= part (a) +part (b) + part (c) =				1528854

We Quote% Above/ Below Schedule for part (a), part (b) & part (c) and our total quoted amount is Rs.

Signature of the bidder