

**Part-V/A : Construction of Community centre in Harijanvas
katchi basti at PINDWARA, District Sirohi,(Raj.)**

**Abstract of B.O.Q FOR Construction of Community centre in
Harijanvas katchi basti at PINDWARA,Rajasthan**

GROUND FLOOR & FIRST FLOOR COVERED AREA 682.57 SQM.

Based on PWD BSR 2009 Sirohi Circle

Part -i (Building work)

S.No.	DESCRIPTIONS	UNIT	QTY.	RATE	AMOUNT
1	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 depositions and refilling of jhiri with watering & ramming and disposal of surplus excavated soil as directed with in a lead 50 meter. All kinds of soil.	Cum	211.63	102	21586
2	Providing and laying in position concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering- All work up to plinth level. 1:5:10 (1 cement : 5 coarse : 10 graded stone aggregate 40mm nominal size.)	Cum	65.27	1501	97970
3	Random Rubble masonry for foundation and plinth in Cement Sand mortar above 30 CM thick wall in Cement Mortar 1:6 (1-Cement :6-Sand).	Cum	99.80	1438	143512
4	Filling in plinth with locally available river single under floors including watering watering ramming consolidating and dressing complete including cost of single stand	cum	461.07	358	165063
5	Centering & shuttering with plywood or steel sheets including strutting, propping bracing both ways and removal of formwork for foundations in basements rafts, footings, strap beams, bases of columns, etc. up to plinth level	Sqm	114.54	75.00	8591
6	Centering & shuttering with plywood or steel sheets including strutting, propping bracing both ways with wooden members and removal of formwork for super structure up to				0
(a)	Column pillar post and struts etc	Sqm	227.70	157.00	35749

(b)	Suspended floor roofs landing staircase balconies girder cantilever bands coping bed plates anchor blocks sills chhajjas lintel beam etc	Sqm	935.70	137.00	128191
7	Providing and fabricating reinforcement for cement for R.C.C. work including strengthening cutting lending placing in position in beding (including cost of binding wire) all TMT bar	Kg	36630.00	45.00	1648350
8	Providing and laying in position speicified grade of reinforcement cement concrete all R.C.C. structural elements up to plinth level including curing compaction finishing with rendering in cement sand mortar 1:3 (1cement :3coarse sand) and making good the joints excluding the cost of centering shuttering and reinforcement m-20 grade nominal mix (with graded stone aggregate 20mm nominal size	cum	23.11	2775	64130
9	Reinforcement cement concrete work in wall(any thickness) including attatched plaster buttress plinth and string courses fillets columns pillars piers abutments posts &stuts etc up to floor three level including curing compaction finishing with rene dring cement sand mortar 1:3 and making good the joints excluding cost of centring	Cum	20.49	2878	58970
10	Reinforcement cement concrete work in beams(any thickness)Suspended floors roofs girders having slope up to 150 landing balconies shelves chajjas lintels bends plain wiindows sills staircase and spiral staircase up nto floor three level including curing compaction finishing with rendering in cement sand mortar 1:3 and making good &joints excluding the cost of	Cum	140.36	2946	413501
11	Brick masonry for brick work in supper structure using flyash bricks of class designation 75 in cement and sand mortar 1:6 up to third storey	cum	162.34	1739	282309

12	Providing and fixing T - iron frames for doors, windows and ventilators of mild steel TEE- sections, joints mitered and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or with boof rawl plugs and screws or with fixing clips or with bolts and nuts as require including	kg	4899.38	50	244969
13	Supplying and fixing rolling shutters of approved make of 80x1.25 mm M.S. length interlocked together though their entire lenth and jointed together at the end by end locks mounted on specially designed pipe shaft with brakets side guide and arrangement for inside & outside locking with push &pull operation complete including cost of spring hoods providing &fixing necessary 25.3cm long wire spring grade no 2 & ms top cover 1.25mm thk for rolling shutter as per designed(clear open able area to be measured for payment	sqm	11.66	1150	13414
14	P&F ball bearing for rolling shutter	each	4.00	200	800
15	20mm thick plaster on new surface on wall in cement sand mortor 1:6 including raking of joints etc. complete fine finish.	Sqm	2288.00	74	169312
16	Polished Blue Kota Stone flooring skirting, laid over 25mm thick base of C.M. 1 : 4 and jointed with gray cement slurry to match the shade of the slab including rubbing and polishing complete 25 mm thick slab.for area of each slab upm to 901 to 2000 Sq mtr	Sqm	583.43	516	301052
17	Providing and fixing 1st quality standard White / Ivory Glazed Tiles ISI marked [IS:13753] of size 300mm x 200mm in walls, floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in white cement mixed with pigment to match the shade of tile complete (excluding the cost of cement plaster). Category-I Kajaria,johnson ,orient somany make etc.	Sqm	183.09	490	89716

18	P&F Polished Blue Kota Stone slab in steps (tred riser) pillars having fine machine cut edges laid on 12 mm (av) thick cement mortar 1:3 and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and	Sqm	29.64	602	17843
19	Providing and fixing granite stone slab mirror polished and machine cut walls pillars steps shelves bath counter etc laid on 12mm (av) thick base of cement mortar 1:3 jointing with white cement mortar (1white cement : 2 morble dust) with pigement to match the shade of the granite	Sqm	6.44	2229	14344
20	Providing and fixing factory made solid case single leaf door shutters made out of composite ECO friendly wood laminated with .8 mm thick polymer termite and water resistant fire retendent technology glusing by vaccum laminatin technology gluing by oulded design on both as per IS 2202 part I 1991 (door fitting shall be suppped by the department 35mm thk 2100x900mm size	each	29	5060	146740
21	Distermpering with oil bound wash abled disterm per of approved brand and manufacutre to give an even shade including all scaffolding new work (two or more coats) over and including scrapping and priming coat with cement prime as per inner side cement plaster	Sqm	1027.20	44	45197
22	Finishing wall with water proofing cement paint of approve brand and manufacture and or required shade to give en even	Sqm	527.47	44	23209
23	Painting with enamel paint of approved brand and manufacture to give an even shate two or more coats on new work priming coat redimix pink or grey primer of approved brand &manufacturer on wood	Sqm	149.05	40.25	5999
24	Painting with redimix paint of approved brand and manufacture in all shades to give an even shade new steel work(two or more coats).	Sqm	118.40	25	2960

25	Providing and fixing anodizing alluminium work (anodizing to be got done from approved anodizer) for doors, wondows,ventilators and partition with extructed built up standard tublar and other sections of approved make conforming IS 733 and IS 1285 anodized transparent 81 dyed to required shade according to IS 1868 (MINIMUM ANODIC coating of grade AC 15) fixed eith rewl plug and screws or with fixing clips or with expansion hold fastners incd. neccessary filling up of gas at junctions at top bottom and sides with required PVC /new neoperene felt extra alluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever				0
26	For shutters of doors ,windows and ventilators incd. Providing and fixing hanger/roller etc. and making provision for fixing of fittings wherever required(locks	sqm	14.68	299	4389
27	Providing and fixing glazing in aluminum door window shtters and partition etc with P.V.C. neoprene gasket etc. complete as per the architectureal drawing and the direction of engineer in charge (cost of aluminium shop beading shall be paid base item 5mm with tinted glass pannel of 5mm thick(wt not less than 13.75kg/Sqm)	Sqm	14.68	600	8806
28	Providing and fixing double action hydraulic floor spring of approved brand and manufacture to aluminium door shutter including cost of cutting floors as required embedding in floors and cover plate etc complete	each	4	2044	8176
29	Providing batta (gola) 75 mm x 75 mm in cement concrete 1:2:4 including finishing	Rmt.	240.00	23	5520
30	Providing and laying RR Stone kharanja in cement mortor 1:6 in 1 course--23 cm thick.	sqm	285.00	180	51300

31	Providing & fixing steel glazed doors windows rolled steel section joint metred & wklded with steel 13x13 mm Lugs 10cm long embedded in cement concrele blocks 15x10x10 cm of 1:3:6(1 cement:3 coarse mominal size) or with wooden plugs & screws or rawls pugs & screws or with fixing of with bolts & nuts a srequired including provding ang fixing of plain glass panes 4 mm thick with copper glazing cilp & special metal sash putty of appovrd make or metal beading with screwas complet	sqm	46.08	1225	56448
32	supplying & fixing wire gauge of 14 mes x24 gauge to th emetal frame of rolled section by metal beading 20x3 mm with suitable screw at not exceeding 150mm distance quantity as per above	sqm	46.08	323	14884
33	Providing and fixing square bars or other flat welded to window ventilators etc.	kg	128.00	45	5760
34	providing & fixing wire gauge doors double leaf for door as per apporved desing & drawing with approved ordinary C.P oxidized steel fitting as per Anenxure A & width of styles & toprails of 100 mm & lock rails width of 150mm & x12 mm on both faces complete with gauge 24 gauge mesh of IS designastion 85 gauge wires of dia 0.56 mm panels sheesham wood grade !	sqm	19.17	1278	24499
Sub total building work part -i				Rs	4323260
PART-ii (SANITARY WORKS.)					
1	P & F Indian type white glazed vitreous china 1st quality W.C. orissa pan (IS :2556 Mark) with 100 mm vitreous china P or S trap including cutting and making good the wall and floor				
	Size 580x440 mm	Each	9	811.00	7299
2	P & F WVC Floot-rest (IS:2556 Mark) including cutting and making good the floor size				0
	250x125x25mm	Pair	5	122.00	610
3	P & F European type white glazed vitreous china 1st quality double syphonic W.C. (IS:2556 Mark) with P or S trap including cutting and making good the wall and floor	each	5.00	2982	14910

4	P & F Universal (angio-Indian type) white glazed vitreous china W.C. pan 1st quality with P or Strap including cutting and making good the wall and floor.	each	3.00	1577	4731
5	P & F water closet Seat covers with brass hinges complete non bricable of other approved make coloured	each	5.00	219	1095
6	P & F 1st quality WVC Urinal (IS:2556 mark) with 25mm dia G.I. waste pipe dome waste complings concealed iron brackets or screws etc complete				0
	Flat back (small) size 440x265x315mm	each	15.00	728	10920
7	F & F Marble Urinal Partition slab sides polished of approved design cut from marble size 900x600mm				0
	Makrana II quality marble having light spots	each	11.00	672	7392
8	P & F High level flushing cistren of 10 litres capacity of approved make including C.I. brackets duly painted chain and pull and 32 mm dia G.I. concealed flush pipe with M.S clames 20 mm dia G.I. overflow pipe upto 185cm long brass cock (IS:1703)				0
	White PVC (IS:7231 mark)	each	5.00	1141	5705
9	P & F Low level flushing cistren of 10 litres litrescapacity (IS:2556 mark) of approved make including C.I. brackets duly painted chain and pull and 32 mm dia G.I. concealed flush pipe with ball (IS:1703 mark) complete including cutting and making good the wall.				0
	WVC with C.P. brass bend	each	8.00	1328	10624
10	P & F C.P. brass Urinal Flush Pipe set complete with flanged brackets of approved make.				0
	(a) For 4 urinals	each	2.00	1074	2148
	(b) For 3 urinals	each	2.00	685	1370
	(C) For 1 urinal	each	1.00	357	357

11	P & F WVC wash basin (1st quality, I.S. 2556 mark) of approved make with C.I. brackets dully painted. 1 No. 15 mm C.P. Pillar cock (IS :8934 Mark) and 32 mm C.P. brass waste coupling of approved make. 25mm G.I. waste pipe complete including cutting and mak				0
	Size 580x450 mm	each	17.00	1239	21063
12	P & F Bevelled edge Mirror of special glass of approved make (Atul, Modi Guard, Saint Gobin or equivalenet) complete with 6mm thick asbestos cement sheet ground fixed to wooden screws and washers.				0
	size 600x450 mmx4mm	Sqm	16.00	231	3696
13	P & F towel rail of approved quality/make				0
14	C.P. brass towel rail elbow type with conceated screws size 600 mm (Heavy duty)	each	16.00	330	5280
15	P & F Liquid soap container with breakets complete of approved make stainless steel	each	16.00	110	1760
16	P & F Toilet Paper holder with rod of approved quality/make C.P. brass	each	8.00	99	792
17	P & F Soap dish or trap of approved quality /make	each	8.00	50	400
18	WVC (1st quality 1st masked) recessed size 200x100 mm	each	16.00	154	2464
19	Providing laying and jointing glazed S.W. pipes grade 'A' (IS:651 maked) of approved make with spun yarm and stiff mixture of cement mortar 1:1 excavatin and refilling of earth in all type of soil upto 1.2 m depth S.W. fittings including testing of joints				0
	100 mm dia	Mtr.	150.00	95	14250
20	Providing & Laying C.C. 1:5:10 (stone aggregate 40mm nominal size) upto hauches of S.W. pipe including 150 mm thick bed concrete (width W=Dia of pipe in Cm+40cm) concrete width to be reduced from width W at centre of pipe to '0' at top of pipe (Excluding cost of pipe)				0

	100 dia S.W. pipe	Mtr.	150.00	193	28950
21	P&F rigid PVC pipe (IS4985 mark) class II(4 kg/cm ²) approved quality /make including jointing the pipe with solvent cement rubber ring & lubricant				0
	75mmdia	Mtr.	175	104	18200
22	Providing and fixing sand cast iron pipe (IS:1729 mark) of approved mark in wall or in floor with M.S. holder bat clams in 10x10x10cm M-15 grade concrete blocks joints filled with CM 1:4 with spun yarn including cutting holes and making good wall				0
	150mm dia	Mtr.	67.50	794	53595
23	P & F S.C.I. fitting (IS:1729 mark) in CM 1:4 with spun yarn				0
	150 mm w/o door (cowel)	each	9.00	302	2718
	150mm with door (tee)	each	14.00	780	10920
23	P & F Sand cast floor trap (Nahni) of (IS:1729 mark) of approved quality /make with socket down or hinged grating including cutting and making good the floor				0
	Size 100x75 mm	each	21.00	205	4305
24	Construction of Man hole in all type of soil inner size 1.5x1.2 m with 450 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 depth up to 1.5m	each	5.00	7076	35380
25	Construction of chamber in all type of soil with 300mm thick masonry in CM 1:6 m 10 cm thick C.C. 1:5:10 in foundation 20mm thick insides plaster in cm 1:6 finished with floating with neat cement 50mm thick M-15 grate C.C. flooring earthwork etc complet				0
	do-size 450x450mm depth upto 0.5 M cement cover with frame	each	13.00	731	9503
26	Supplying and fixing Ferro-cement cover with C.I. frame for chambers and man holes of size				0

	3.34.4 500mm dia 25 kg-do- 70 MT centre point load seal type (Heavy duty)	each	3.00	1980	5940
27	P & F G.I. pipes (Internal work) with G.I. fittings excluding union (IS:1239 mark) and MS clamsincluding cutting and making good the walls and floors (a) Exposed on wall				0
	15mm 'B' class	Mtr.	311.00	108	33588
	32mm 'B' class	Mtr.	95.00	226	21470
	For main water supply 25mm dia	Mtr.	70.00	147	10290
28	Making connection of G.I. distribution branch with G.I. main including all fitting beyond 25mm dia and upto 100mm dia	each	3.00	351	1053
29	P & F Bib cock (IS:8931 mark) superior quality of approved make C.P brass bib cock 15mm nominal bore	each	17.00	183	3111
30	P & F flush cock/flush valve (IS:9758 mark) for WC of approved quality make concealed 25 mm nominal bore	each	10.00	607	6070
31	P & F Gun metal Non return valve or check valve (IS:Make) of approved make superior quality				0
	32mm nominal bore				0
	Horizontal	each	3.00	449	1347
32	P & F PVC storage tank (IS:1270 marked indicatiing the BIS license No.) of approved make with cover 25mm dia 1M long G.I. over flow pipe and 25 cm long wash out pipe with connection etc. complete of approved design				0
	500 litres	each	5.00	2558	12790
	Hoisting charges for each floor	each	5.00	30	150
33	Providing and fixing bitumen Paint Coating over G.I. Pipes Complete as per Specification				0
	15 mm dia	Rmt.	300.00	0.80	240
	40 mm dia	Rmt.	310.00	2.20	682
34	Providing laying and jointing R.C.C. class NP-2 Non-Pressure pipes (IS:459 mark) of approved make with collars jointed with C.M. 1:2 or having spigot and sockets ends with flexible rubber rings joint including testing of joints etc. complete				0
	200 mm dia internal	Mtr.	50.00	202	10100
	150 mm dia internal	Mtr.	30.00	174	5220

35	P & F stop cock (IS:8931 mark) superior quality and of approved make				0
	(a) Brass 400 gm 15mm nominal bore	each	10.00	183	1830
	(b) Brass 1350 gm 25mm nominal bore	each	4.00	376	1504
	Total PART-ii (SANITARY works)				395822
			BASED ON PWR BSR 2008, JAIPUR		
	Part iii (Electrical installation)				
1	E020100 Wiring of light point/ fan point/ exhaust fan point/ call be point with 1.5 sq.mm. F.R. PVC insulated unsheathed flexible copper conductor 1.1 Kv. Grade and 1.5 sq. min. 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 and its accessories round tiles. 18 SWG M.S. box with earth terminal screw less cage connectors for neutral looping in switch board and false ceiling point. 6A switch. 3.0 mm thick phenolic laminated sheet zinc plated/brass screws cup washers making connections testing etc. as required (group II)				
	Short point (up to 3 Mtr.)	each	88.00	171.00	15048
	Medium point (up to 6 Mtr.)	each	159.50	303.00	48329
	Long point (up to 10 Mtr.)	each	122.10	404.50	49389

2	E020300 Wiring of 3 pin 5 amp. Light point with 1.5 sq. mm FR PVC insulated unsheathed flexible copper conductor 1.1 Kv grade and 1.5 Kv grade and 1.5 sq. mm FR PVC insulated unsheathed flexible copper earth conductor 1.1 kv garde (IS:699) of approved make in surface/recessed ISI marked medium duty PVC conduit and its accessories 18 SWG M.S. box with earth terminal screw less cage connectors for neutral looping in switch board and false ceiling point. 6A switch 6A socket 3.0 mm thick phenolic laminated sheet zinc plated/brass screws cup washers making connections tesing etc. as required (group II)				0
	On Board	each	88.00	59.00	5192
	Medium point	each	41.80	347.00	14505
	Long point	each	33.00	488.00	16104
3	E020400 S & F following sizes (dia) of ISI marked medium dity PVC conduit along with accessories in surface recessed using saddles, clamps fastener as required including cutting the wall and making good the same as required (group II)	Mtr.	990.00	21.00	20790
	25 mm dia				0
4	E040100 Supply and drawing FR PVC insulated and unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kv grade and approved make in existing surface of recessed conduit / casting capping including making connections etc. as required (group II)		55.00	40.00	2200
5	E060100 P & F 240/415 V MCB of breaking capacity not less than 10 KA (B/C/D tripping characteristic) ISI marked IS 8828 (1996)/conforming to IEC 60898 in existing board sheets including making connections with lugs, testing etc. as reqired (group II) 6A to 32A rating		55.00	151.00	8305

6	E060200 P & F 240/415 V isolator conforming to IS:13947 -III IEC 60947-3 on exiting board/sheets including making connections with lugs testing etc. as required. Double pole isolator (Group-II) 30A/40A rating		2.20	206.00	453
7	E060500 P & F Recessed surface mounting heavy duty horizontal type sheet steel Distribution board phophatised power painted complete with copper bus bar shorting link neutral link earth line and din bar conforming to ISI 1323 and IS 8623 including making internal DB terminations with copper lugs, testing etc. as required. Double door (single phase) (group-II)		2.20	507.00	1115
8	E050200 P & F position frame made out of M.S. angle (riveted or welded) finished with two coats of red oxide and enamel paint to following size as require 25mmx25mmx4.5mm		5.50	61.00	336
9	E050500 P & F sheet for boxes frames including making holes for switches etc. with brass screws, washers zinc plated nut and belt as required bakelito sheet (0.30x0.60) 4.8mm thick		44.00	676.00	29744
10	E150300 Plated Earthing as per IS:3043 with copper earth plate of size 600mmx600mmx3mm by embodying 3 to 4 mtr. Below the ground level with 20mm dia G.I. "B" class watering pipe including all accessories like nut bolts reducer nipple wire meshed funne and C.C. finished chamber covered with hinged type with looking arragement C.I. cover C.I.		1.10	4725.00	5198
11	E150500 S & laying following size earth wire strip in horizontal or vertical run in ground / surface/ recess including riveting soldering saddles making connections etc as required 8 SWG copper wire		22.00	65.51	1441

12	E190200 P & F box type fluoresecent tube fitting fabricated from CRCA sheet and finished with coating / stove enameled paint complete with accessories like (OCCB, starter starter seat) E.B. condensor rotor holder terminal block duty prewired with copper conductor including making connection testing etc. as required (without tube) (group II) 4x36 watts with OCCB		33.00	293.00	9669
13	E190700 P&F fluorescent tube rod in existing fixtures as required fluoesent power coated (Group II) 36/40 Watts		33.00	53.00	1749
14	E150600 S& laying following size 'A' class G.I. pipe with accessories for laying earth conductore/strip in ground / surface / recess as required 32 mm dia		4.40	128.25	564
15	E170500 P&F 1.6mm thick M.S. recessed fan box hexagounal /round of size 100 mm dia depth 75mm 12mm dia rod fan hook with length extended on each side.		55.00	51.00	2805
16	P & F adjustable type recess mounting down lighter with electrochemically brightened and anodized aluminium reflector complete with holder prewired upt terminal block including makng connection testing etc. as required (without lamp) without Ballast suitable for GLS lam/direct		44.00	325.00	14300
17	P & F energy efficient direct firt (Retrofit) composite compact flourscent lamp of energy saving labeling not less than 3 star 8/9 Watt		44.00 27.50	125.00 90.00	5500 2475
18	E170400 P & F double ball bearing capacitor start fan of approved make complete with regulator and other accessories as required 1200 mm sweep		33.00	1203.00	39699
20	E072200 P & F ISI marked flush type 120/280 watt rolyary step fan regulator including making connection testing etc. as required		33.00	189.00	6237

21	E190500 P & F Mirror opties type flurescent tube fitting fabricated from CRCA sheet and finished with power coating having aluminium mirro reflector low glare V shape double parabolic cross louvers complete with accessries like (OCCB,starter starter seat) /EB condensor rotor holder termianal block duly prewired with copper conductor		22.00	3090.00	67980
22	P & F of Heavy duty capacitor start 900/1400 RPM single phase ISI marked exhaust fan IS:2312 marked in existing opening including making connections testing etc as required		8.80	3152.00	27738
23	P & F bus bar chamber made out of aluminium or wrought aluminium alloy suitable for 100 amp. Capacity housed in sheet matal box made alloy from 1.2 mm MS sheet front openable bus bar fixed on porcelain insultor at approved spacing including making connections etc. as required 450mm long 4 strip		1.10	979.00	1077
24	E101000 P & F onload change over switch front handle operated four pole 415V conforming to IS:13947 P-III including connections testing etc. as reqired in the following rating. With sheet steel enclosoure 125A		1.10	6776.00	7454
25	E190300 P & F industrial fluorescent tube fitting with reflector fabricated from CRCA sheet and finished with power coating / vitreous enamelled complete with accessories like (OCCB,starter, starter seat) EB. Condesor, rotor holder terminal block dully prewired with copper coductor including making connection testing etc as required 1x36 watt with OCCB		8.80	1485.00	13068
	M.S. pipe band 1'-2 1/2" long 120 mole with welding and nut and bolt		8.80	200.00	1760
SUB TOTAL OF PART iii (Electrical installation)					420223

Total cost of Community center=(total part i+ii+iii) =

Rs. **5139305**

We Quote% Above/ Below Schedule for all i.e part-i,ii &iii " and our quoted amount is Rs.

Signature of contractor