

Detailed Measurement Sheet of IVDMC Shelter

S. No	Description fo Work	No's	Length	Width	Height	Quantity	Units	Remarks
1	Excavation & Earth Work							Center line method.
	Excavation of foundation for store room, community hall and saniation facility.	1	123.5	2.5	2.25	694.6875	cft	
	Excavation of foundation for boundary wall.	1	44.25	1.5	1	66.375	cft	
	Excavation of foundation for ramp.	1	149	1	0.75	111.75	cft	
	Excavation for septic tank.	1	4.5	4.5	2	40.5	cft	
	Excavation for soakage pit.	1	14.1790625		3.25	46.08195313	cft	
	Excavation for Water trough.	1	4	4	2	32	cft	
	Excavation for perforated pipe.	1	10	1	3	30	cft	
	Excavation for water tank foundation.	2	2	2	0.75	6	cft	
	Excavation of trenches for lead pipe for water supply.	1	500	1	2	1000	cft	
	Excavation of veradh columns	5	3.25	2.5	2.25	91.40625	cft	
Total Excavation						2118.800703	cft	
2	Backfilling							
	Back filling of trenches for lead pipe for water supply	1	500	1	2	1000	cft	After back filling trench will compacted.
	Back filling of perforated pipe	1	10	1	3	30	cft	
Total Back filling						1030	cft	
3	Earth Filling							
	Earth filing in Store room	1	10	8	1.58	126.4	cft	
	Earth filing in community hall	1	20	12	1.58	379.2	cft	
	Earth filing in Sanitation facility	1	8	8	1.58	101.12	cft	
	Earth filling in open area 6 ft wide	1	31.5	5.625	1.58	279.95625	cft	Front of community hall and store room
	Earth filling in open area 10.625 ft wide	1	8	10.625	1.58	134.3	cft	Front of saniation facility
	Earth filling in ramp include landing of ramp	1	67	5.5	1.25	460.625	cft	
	Earth filling arround the septic tank and soakage pit	1	20	8	2	320	cft	
	Earth filling over store room roof	1	10.75	8.75	0.25	23.515625	cft	include mud plaster two layers
	Earth filling over community hall roof	1	20.75	12.75	0.25	66.140625	cft	include mud plaster two layers
	Earth filling over sanitation facility roof	1	8.75	8.75	0.25	19.140625	cft	include mud plaster two layers
Total Earth filling work						1910.398125	cft	
	Deduction of earth filling	1				408.97	cft	408.97cft=Total Brick work & PCC in foundation below groud level) excavted earth
Grand Total of Earth filling work						1501.428125	cft	

4	River Sand Filling							
	River Sand filing in Store room	1	10	8	1	80	cft	
	River Sand filing in community hall	1	20	12	1	240	cft	
	River Sand filing in Sanitation facility	1	8	8	1	64	cft	
	River Sand filling in open area 6 ft wide	1	31.5	5.625	1	177.1875	cft	
	River Sand filling in open area 10.625 ft wide	1	8	10.625	1	85	cft	
Grand Total of River Sand filling work						646.1875	cft	
5	Plain cement concrete (PCC 1:3:6)							Center line method.
	PCC in foundation for store room, community hall and saniation facility.	1	123.5	2.5	0.25	77.1875	cft	
	PCC in foundation for boundary wall.	1	44.25	1.5	0.25	16.59375	cft	
	PCC in foundation for ramp.	1	149	1	0.25	37.25	cft	
	PCC in water tank column foundations.	2	2	2	0.25	2	cft	
	PCC in verabda columns	5	3.25	2.5	0.25	10.15625	cft	
Total PCC (1:3:6)						143.1875	cft	
6	Brick ballast 1-1/2" to 2" size							25% sand mixed.
	Bricks ballast for store room	1	10	8	0.25	20	cft	
	Bricks ballast for community hall	1	20	12	0.25	60	cft	
	Bricks ballast for sanitation facility	1	8	8	0.25	16	cft	
	Bricks ballast for open area 6 ft wide	1	31.5	5.625	0.25	44.296875	cft	
	Bricks ballast for open area 10.625 ft wide	1	8	10.625	0.25	21.25	cft	
	Bricks ballast for plinth protection.	1	261.5	1	0.17	44.455	cft	
	Bricks ballast for ramp include landing of ramp	1	72	5.5	0.25	18	cft	
Total Bricks aggregate						224.001875	cft	
7	Plain cement concrete (PCC 1:2:4)							
	PCC for store room floor	1	10	8	0.17	13.6	cft	
	PCC for community hall floor	1	20	12	0.17	40.8	cft	
	PCC for sanitation facility floor	1	8	8	0.17	10.88	cft	
	PCC for open area 6 ft wide floor	1	31.5	6	0.17	32.13	cft	
	PCC for open area 10.625 ft wide floor	1	8.75	11	0.17	16.3625	cft	include plate form
	PCC for ramp include landing of ramp	1	72	6	0.17	73.44	cft	
	DPC over boundry wall	1	60.5	0.75	0.125	5.671875	cft	
	PCC for kerb of hand railing	2	72	0.5	0.42	30.24	cft	
	PCC in septic tank floor	1	4.5	4.5	0.25	1.125	cft	
	PCC in flundation of soakage oit	1	12.56	0.625	0.25	3.14	cft	
	PCC in water trough floor	1	4	4	0.25	1	cft	
	PCC for hand pupm base	1	1	1	1	1	cft	
	PCC for plinth protection.	1	261.5	1	0.17	44.455	cft	

	PCC for roof drain pipe	3	1.5	0.75	0.75	3.375	cft	
	PCC for 4" dia Pipe covering	1	20	0.75	0.75	15	cft	water trough & Soakage pit pipe
8						292.219375	cft	
8	Reinforec Cement Concrete (RCC 1:2:4)							
	Plinth Beam for store room, community hall and saniation facility	1	123.5	0.75	0.333	30.844125	cft	Center line method.(4# steel 40 grade & for rings 2# steel)
	lintel Beam for store room, community hall and saniation facility	1	123.5	0.75	0.333	30.844125	cft	
	RCC Slab in store room	1	8.5	2	0.25	4.25	cft	4# bars 9" c/c space
	RCC Salab for septic tank	1	4	4	0.25	4	cft	4# bars 9" c/c space
	RCC Slab for Soakage pit	1	12.56		0.25	3.14	cft	4# bars 9" c/c space
	RCC slabs for water tank.	2	3.75	3.75	0.25	7.03125	cft	4# bars 9" c/c space
	RCC slab for water trough	1	4	2	0.25	2	cft	4# bars 9" c/c space
	RCC Lintel beam for veranda	1	42.75	0.75	0.75	24.046875	cft	4# steel 40 grade & for rings 2# steel)
Total RCC (1:2:4)						106.156375	cft	
9	Brick work (1:4 cement sand mortar ratio)							Center line method.
	Brick work of substructure for store room, community hall and saniation facility. 1st step	1	123.5	1.875	0.5	115.78125	cft	
	Brick work of substructure for store room, community hall and saniation facility. 2nd step	1	123.5	1.5	0.5	92.625	cft	
	Brick work of substructure for store room, community hall and saniation facility. 3rd step	1	123.5	1.125	0.5	69.46875	cft	
	Brick work of substructure for store room, community hall and saniation facility. 4th step	1	123.5	0.75	3.1667	293.3125	cft	
	Brick work of superstructure for store room, community hall.	1	97.25	0.75	10	729.375	cft	
	Brick work of superstructure for sanitation facility.	1	26.25	0.75	8	157.5	cft	
	Brick work of parapit wall for store room, community hall & sanitation facility	1	123.5	0.375	0.5	23.15625	cft	
	Brick work for boundary wall 1st step	1	60.5	1.125	0.5	34.03125	cft	
	Brick work for boundary wall 2nd step	1	60.5	0.75	3.25	147.46875	cft	
	Brick work for boundary wall above floor level	1	38.25	0.375	3	43.03125	cft	
	Bricl work for ramp include landing	1	149	0.75	1.75	195.5625	cft	
	Brick work for columns of water tank	2	1.125	1.125	5	12.65625	cft	
	Brick work for water tank	1	9.75	0.375	3	10.96875	cft	
	Brick work for water trough	1	14.5	0.375	3	16.3125	cft	
	Brick work for septic tank	1	14.5	0.375	4	21.75	cft	
	Brick work for Soakage pit	1	12.56	0.375	4	18.84	cft	

	Brick work for 1st step of columns	5	2.625	1.875	0.5	12.3046875	cft	
	Brick work for 2nd step of columns	5	2.25	1.5	0.5	8.4375	cft	
	Brick work for columns above plith level	5	1.5	0.75	6.5	36.5625	cft	
	Brick work for veranda above lintel level	1	44.25	0.75	3	99.5625	cft	
Total Brick work (1:2:4)						2138.707188	cft	
	Deduction of brick work							
	Door	1	3	0.75	6.5	14.625		
	Doors	2	3.5	0.75	6.5	34.125	cft	
	Windows	4	3	0.75	4	36	cft	
	Ventilator	1	1.5	0.75	1.5	1.6875	cft	
Total deduction of Brick work						71.8125	cft	
Grand Total of Brick Work						2066.894688	cft	
10	Plaster Work (1:4 cement sand mortar)							
	Internal plaster of store room	1	36		10	360	sft	
	Internal plaster of community hall	1	64		10	640	sft	
	Internal plaster of Sanitation facility	1	24		8.58	205.92	sft	
	Internal plaster of boundry wall include toping	1	60.5		3.375	204.1875	sft	
	Internal plaster of septic tank	1	13		4	52	sft	
	Internal plaster of soakage pit	1	10.205		4	40.82	sft	
	interanl plaster of water trough	1	13		3	39	sft	
	interanl plaster of water tank	1	9		3	27	sft	
	External plaster of store room	1	31		14.25	441.75	sft	Plaster 6inch below from ground level.
	External plaster of community hall	1	60.5		14.25	862.125	sft	Plaster 6inch below from ground level.
	External plaster of sanitation facility	1	28.5		12.82	365.37	sft	Plaster 6inch below from ground level.
	External plaster of Boundary wall	1	60.5		6.25	378.125	sft	Plaster 6inch below from ground level.
	External plaster of water trough	1	16		1.5	24	sft	Plaster 6inch below from ground level.
	External plaster of septic tank	1	12		2.5	30	sft	Plaster 6inch below from ground level.
	External plaster of soakage pit	1	12.56		1.5	18.84	sft	Plaster 6inch below from ground level.
	External plaster of ramp include landing 1 side	1	74		1.75	129.5	sft	Plaster 6inch below from ground level.
	External plaster of ramp include landing 2 side	1	60		1.75	105	sft	Plaster 6inch below from ground level.
	External palster over water tank	1	10.5		3	31.5	sft	Plaster 6inch below from ground level.
	Cement Grouting over roof tiles	1		627		627	sft	
	Veranda plaster internal both sides	2	44.25		3.75	331.875	sft	
	Veranda columns plaster	5	4.5		6.5	146.25	sft	
Total plaster work						5060.2625	sft	
	Deduction of plaster							
	Door	2	3		6.5			
	Doors	4	3.5		6.5	91	sft	internal & Exteranl plaster

	Windows	8	3		4	96	sft	internal & Exteranl plaster
	Ventilator	2	1.5		1.5	4.5	sft	internal & Exteranl plaster
Total Deduction of plaster work						191.5	sft	
Grand Total of Plaster work						4868.7625	sft	
11	1/2" thick chips in water tank							
	internal sides of water tank	1	12		3	36	sft	
Grand Total of Cement Concrete Skirting						36	sft	
12	Distemper interanl side							1 coat of wall primer after this two coats of distemper.
	Internal distemper of store room,	1	36		10	360	sft	
	Internal distemper of community hall	1	64		10	640	sft	
	Internal distemper of Sanitation facility	1	32		8.58	274.56	sft	
	Internal distemper community hall roof	1	20		11	220	sft	
	Internal distemper of store room roof	1	10		8	80	sft	
	Internal distempe of sanitation facility roof	1	8		8	64	sft	
	Internal distemper of veranda	1	41.25		3.75	154.6875	sft	
	Internal distemper of Verandh roof	1	30.75		5.625	172.96875	sft	
Total internal distemper						1793.2475	sft	
	Deduction of distemper							
	Doors	3	3		6.5	58.5	sft	
	Windows	4	3		4	48	sft	
	Ventilator	1	1.5		1.5	2.25	sft	
Total deduction of internal distemperq						108.75	sft	
Grand Total of internal distemper						1684.4975	sft	
13	Weather shiled exteranl side							1 coat of wall primer over two coats of weather shield.
	Internal weather shield of boundry wall include toping	1	60.5		3.375	204.1875	sft	
	External weather shield of store room	1	31		13.5	418.5	sft	
	External weather shield of community hall	1	52		13.5	702	sft	
	External weather shield of sanitation facility	1	28.5		13.5	384.75	sft	
	External weather shield of Boundary wall	1	54.5		6	327	sft	
	External weather shield of veranda	1	44.25		4.25	188.0625	sft	
	Weather sheild for columns	5	4.5		6.5	146.25	sft	
Total Weather shiled (2 coats)						2370.75	sft	
	Deduction of plaster							
	Doors	3	3		6.5	58.5	sft	
	Windows	4	3		4	48	sft	

	Ventilator	1	1.5		1.5	2.25	sft	
Total deduction of internal distemperq						108.75	sft	
Grand Total of weather shield (2coats)						2262	sft	
14	Oil pint (2 coats)							
	Doors	3	3.5		6.5	68.25	sft	
	Windows	4	3		4	48	sft	
	Ventilator	1	1.5		1.5	2.25	sft	
	Steel Girders	1	130			130	sft	
	T-Irons	1	120			120	sft	
	2 coats of oil paint over Hand railing	1	66		3	198	sft	include joint filling with steel putty
Total Oil Paint						566.5	sft	
15	Steel Girder 1/4" thick (4"x7")							1ft = 4kg
	Steel girder for community hall and veranda	3	19.625			58.875	rft	(Length 19'7.5")
	Steel girder for Store room veranda	1	15.625			15.625	rft	(Length 9'7.5")
	Steel girder for saniation facility	1	9.25			9.25	rft	(Length 9'3")
	Steel girder for veranda	1	6.875			6.875	rft	(Length 6'10.5")
Total Length of Steel Girder						90.625	rft	
16	T-Iron (1"x1") 1/4" thick							1ft=1kg
	T-Iron for community hall 21ft length	12	21			252	rft	
	T-Iron for Store room 11ft length	8	11			88	rft	
	T-Iron for Sanitation facility 9ft length	8	9			72	rft	
	T-Iron for Veranda	6	31.875			191.25	rft	
Total Length of Steel T-Iron						603.25	rft	
17	Brick Tiles							size 12"x6"
	Bricks tiles for community hall, store room, sanitation facility	1278				1278	No's	
Total Bricks tiles						1278	No's	
18	Polythene sheet							Two layers
	Polythene sheet for store room roof	2	10.75	9.5		204.25	sft	
	Polythene sheet for community hall	2	21.5	13.5		580.5	sft	
	Polythene sheet for saniation facility	2	9.5	9.5		180.5	sft	
	Polythene sheet for Veranda	2	32	6.375		408	sft	
Total Polythene sheet						1373.25	sft	
19	Roof Mud Plaster							Two layers
	Mud plaster of Community hall, store room, sanitation facility	1	638			638	sft	Two layers
Total Mud Plaster						638	sft	
20	Hand railing							40mm dia GI pipe

	Hand railing on both sides of ramp	1	134			134	rft	
Total hand railing						134	rft	
21	Door steel frame	2				2	No's	(Size 3.5'x6.5) 16 SWG (4.5")
22	window steel frame	3				3	No's	(Size 3'x4') 16 SWG (4.5")
23	ventilator steel frame	1				1	No's	(Size 1.5'x1.5') 16 SWG (4.5")
24	Steel Door	1				1	No's	(Size 3'x6.5) Angle iron fram & 18 SWG sheet
25	Steel Window (front side grill & steel net)	1				1	No's	(Size 3'x4')Angle iron fram & 18 SWG sheet
26	Door	2				2	No's	(Size 3.5'x6.5) Talhi wooden (external opening door)
27	Window	3				3	No's	(Size 3'x4') Talhi wooden
28	Ventilator	1				1	No's	(Size 1.5'x1.5') Talhi wooden
29	Lever Handle lock for Doors	2				2	No's	For sanitation and community hall door
30	Flip-up Grab bars 28" length	1				1	No's	40mm GI pipe
31	Grab bars 24" length	2				2	No's	40mm GI pipe
32	Sanitary Items							
32.01	English commode	1				1	No's	orient brand
32.02	Indian commode medium size	1				1	No's	orient brand
32.03	Wash basin medium size	1				1	No's	orient brand
32.04	P-Trap 4" dia	1				1	No's	orient brand
32.05	UPVC-T (4"x2")	1				1	No's	Jeddah or Accufit brand
32.06	UPVC cowel 2" dia	1				1	No's	Jeddah or Accufit brand
32.07	UPVC Pipe 4" dia	1	100			100	rft	10ft each length (Jeddah Brand)
32.08	UPVC sho bend 4" dia	6				6	No's	two for each drain pipe (Jeddah)
32.09	UPVC socket 4" dia	3				3	No's	one for each drain pipe (Jeddah)
32.1	UPVC Pipe 2" dia (vent pipe)	1				1	No's	10ft length (Jeddah)
32.11	UPVC Drain strainer (4"x6")	2				2	No's	
32.12	UPVC Elbow 4" dia	4				4	No's	Jeddah or Accufit brand
32.13	PPR- Pipe 3/4" dia	1	40			40	rft	Jeddah or eqvilent
32.14	Water Tap	1				1	No's	Master or super asia
32.15	Toilet shower	1				1	No's	Master or super asia
32.16	T-cock	2				2	No's	Master or super asia
32.17	Side pillar cock	1				1	No's	Lever Handle Master or super asia
33	Hand Pump							
33.01	Cost Iron Hand Pump Abyar 4#	1				1	No's	
33.02	High Density Polyethylene (HDPE)pipe 1.25" dia	1	500			500	rft	Jeddah or eqvilent
33.03	GI Elbow 1.25"	1				1	No's	

33.04	UPVC Elbow 1.25"	2				2	No's	Jeddah or eqilent
33.05	UPVC Tee 1.25"x1.25"x1.25"	1				1	No's	Jeddah or eqilent
33.06	GI Pipe Nipple 1.25" dia ILL (6" length (one side outer threads & other side plane	4				4	No's	GI Pipe
33.07	1.25" Dia UPVC Pipe (10ft length)	1	50			50	rft	10ft each length (Jeddah Brand)
33.08	1.25" Dia UPVC filter Pipe (6ft length)	1	12			12	rft	06ft each length (Jeddah Brand)
33.09	PVC end cap for filter pipe1.25" dia	2				2	No's	
33.1	Polister Tissue10 ft Length (filter jali)	2				2	No's	
33.11	GI Pipe1.25" dia ILL 5' length (one side outer threads & other side plane)	1				1	No's	
33.12	Non Return valve, 1.25"dia	2				2	No's	
33.13	Bore holes 30ft maximum	2				2	No's	
34	Visibility 1 marbel and 1 steel plate (2.5' x 2')	2				2	No's	
35	Site dressing , leveling and cleaning.	1				1	L.S	30ft from all sides of structure