

**BILL OF QUANTITIES FOR PROPOSED REPAIR AND IMPROVEMENT OF MUD STRUCTURES****LOT#2- CHAGHI RV SCHOOLS NO. 40 ,41,43 & 46****1. SCHOOL #40****A) Repair Work at School #40**

<b>S.N</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT IN PKR</b>
1	<b>Leaping of Mud roof</b> Providing and laying 12 mm thick leaping on mud roof of all the class rooms. Proper leaping should ensure that there is no void left behind.	SQFT	9,300		
2	<b>Leaping of Boundary wall</b> Providing and applying 3mm mm thick leaping on boundary wall. Proper leaping should ensure that there is no void left behind.	SQFT	12,100		
3	<b>External Leaping Works</b> Providing and applying 6mm mm thick mud leaping on the external walls of the class rooms. Boys Section:5232 sqft Girls Section: 2438 sqft	SQFT	7,750		
4	<b>White Wash Works</b> Providing & applying white or Colour wash on new/old surface, 1st coat & subsequent coats, including removal of the old or existing white wash.	SQFT	14,000		
5	<b>Door Paint Work</b> 1st coat of painting on new or old work such as steel doors and windows of any type and description with synthetic enamel paint, including the removal or burning of old paint.	SQFT	750		
6	<b>Glazing</b> Supplying and fix plain sheet glass 5 mm thick, fixed to timber or steel sashes with putty as specified.	SQFT	140		
7	<b>Wire Gauze</b> Supply iron tinned wire gauze fly proof 9x9 mesh, 24 gauge and fix with cover fillets to window chowkats/frame etc.	SQFT	120		
8	<b>Roof Chemical Treatment</b> Supplying and laying of Bitumen, applied hot on roof @ 0.75 kg/sqm and blinded with sand at 0.012 cum per sqm (including cleaning surface)	SQFT	1,600		
<b>TOTAL - Repair Work at School #40</b>					
<b>GRAND TOTAL FOR SCHOOL #40</b>					

S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
<b>2. SCHOOL #41</b>					
<b>A) Repair Work at School #41</b>					
S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
1a	<b>New Mud Roof with Leaping Works</b> Providing and laying mud plaster 25 mm thick and leaping over 75 mm thick mud on roofs including laying of 2.5 mm polyethene sheet.	SQFT	1,500		
1b	<b>Dismantling Works</b> Removing mud from roofs, including plastering and leaping.	CFT	780		
2	Providing & fixing bamboos of 22 ft length.	RFT	450		
3	<b>Scraping Mud Plaster Works</b> Scraping the existing & damaged Plaster, any thickness.	SQFT	10,800		
4	<b>External Mud Plaster Works</b> Mud plaster of boundary wall= 7088 sqft Mud plaster of building=3688 Providing and applying 19 mm thick mud plaster including 3 mm thick leaping on all the external walls of class rooms.	SQFT	10,800		
5	<b>White Wash Works</b> Providing & applying white or Colour wash on new/old surface, 1st coat & subsequent coats, including removal of the old or existing white wash.	SQFT	4,150		
6	<b>Door Paint Work</b> 1st coat of painting on new or old work such as steel doors and windows of any type and description with synthetic enamel paint, including the removal or burning of old paint.	SQFT	280		
7	<b>Leaping of Mud roof</b> Providing and laying 12 mm thick leaping on mud roof of all the class rooms. Proper leaping should ensure that there is no void left behind.	SQFT	1,500		
8	<b>Wire Gauze</b> Supply iron tinned wire gauze fly proof 9x9 mesh, 24 gauge and fix with cover fillets to window chowkats/frame etc.	SQFT	50		
9	<b>Roof Chemical Treatment</b> Supplying and laying of Bitumen, applied hot on roof @ 0.75 kg/sqm and blinded with sand at 0.012 cum per sqm (including cleaning surface)	SQFT	1,300		
<b>TOTAL - Repair Work at School #41</b>					
<b>GRAND TOTAL FOR SCHOOL #41</b>					

S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
<b>3. SCHOOL #42</b>					
<b>A) Repair Work at School #42</b>					
S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
1a	<b>New Mud Roof with Leaping Works</b> Providing and laying mud plaster 25 mm thick and leaping over 75 mm thick mud on roofs including laying of 2.5 mm polythene sheet.	SQFT	900		
1b	<b>Dismantling Works</b> Removing mud from roofs, including plastering and leaping.	CFT	436		
2	Providing & fixing bamboos. 1. (22 Feet length bamboo=400 RFT) 2.(23 Feet length bamboo=385 RFT) 3.(21 Feet length bamboo=391)	RFT	1176		
3	<b>Leaping of Mud roof</b> Providing and laying 12 mm thick leaping on mud roof of all the class rooms. Proper leaping should ensure that there is no void left behind.	SQFT	2950		
4	<b>Scraping Mud Plaster Works</b> Scraping the existing & damaged Plaster, any thickness.	SQFT	10000		
5	<b>External Mud Plaster Works</b> Mud plaster of boundary wall= 7614 Sqft Mud plaster of building=2310 Providing and applying 19 mm thick mud plaster including 3 mm thick leaping on all the external walls of class rooms.	SQFT	10000		
6	<b>White Wash Works</b> Providing & applying white or Colour wash on new/old surface, 1st coat & subsequent coats, including removal of the old or existing white wash.	SQFT	6000		
7	<b>Door Paint Work</b> 1st coat of painting on new or old work such as steel doors and windows of any type and description with synthetic enamel paint, including the removal or burning of old paint.	SQFT	430		
<b>TOTAL - Repair Work at School #42</b>					
<b>GRAND TOTAL FOR SCHOOL #42</b>					
<b>4. SCHOOL #43</b>					
<b>A) Repair Work at School #43</b>					
S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
1	<b>Scraping Mud Plaster Works</b> Scraping the existing & damaged Plaster, any thickness.	SQFT	4600		

S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
2	<b>External Mud Plaster Works</b> Providing and applying 19 mm thick mud plaster including 3 mm thick leaping on all the external walls of class rooms.	SQFT	4600		
3	<b>White Wash Works</b> Providing & applying white or Colour wash on new/old surface, 1st coat & subsequent coats, including removal of the old or existing white wash. (Only for 3 class rooms)	SQFT	2600		
4	<b>Door Paint Work</b> 1st coat of painting on new or old work such as steel doors and windows of any type and description with synthetic enamel paint, including the removal or burning of old paint.	SQFT	180		
5	<b>Leaping of Mud roof</b> Providing and laying 12 mm thick leaping on mud roof of all the class rooms. Proper leaping should ensure that there is no void left behind.	SQFT	1700		
6	<b>P.C.C Flooring</b> Providing & laying of P.C.C Flooring using crushed or broken stone graded 1:3:6, including curing, compacting & finishing complete in all respect.	CFT	85		
7	<b>Roof Chemical Treatment</b> Supplying and laying of Bitumen, applied hot on roof @ 0.75 kg/sqm and blinded with sand at 0.012 cum per sqm (including cleaning surface) 64'x26' (first block to the main entrance) 51'x26' (R.C.C Rooms) 44'x25' (Tile Girder Roof)	SQFT	4400		
8	<b>Glazing</b> Supplying and fix plain sheet glass 5 mm thick, fixed to timber or steel sashes with putty as specified.	SFT	50		
<b>TOTAL - Repair Work at School #43</b>					
<b>GRAND TOTAL FOR SCHOOL #43</b>					
<b>5. CONSTRUCTION OF 2 NEW BLOCKS OF THREE CLASSROOMS EACH AT SCHOOL #46 IN POSTI RV</b>					
<b>TWO BLOCKS OF THREE CLASSROOMS EACH WITH VERANDAH</b>					
S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
1	<b>Excavation in foundation</b> of buildings and bridges, including layout, dressing, refilling around structures with, excavated earth, watering & ramming lead up to 100 ft.,(30m) & lift up to 5 ft. (1.5m)				

S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
		Cft	1375		
2	<b>Providing and laying plain</b> hand mixed <b>1 : 4 : 8</b> cement concrete using sand approved source and crushed aggregate having maximum size up to 1-1/2" (38mm) & down gauge in foundation and plinth including levelling, compacting & curing.				
		Cft	137.5		
3	<b>Providing, fabricating and laying deformed Grade 60 steel reinforcement</b> (deformed bar) for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or chairs for binding and holding the reinforcement in position is inclusive up to 15 ft. (5m) height				
	Foundation and Columns		3.67		
	Plinth Band		1.04		
	Door Band		0.68		
	Roof Beam		0.58		
	Slab		5.43		
	Total	ton	11.39		
4	<b>Providing and laying 1:2:4 cement concrete</b> using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in sills and Bed Plate including formwork and its removal, compacting and curing				
		Cft	550		
5	Providing and laying <b>first class solid burnt brick masonry (Brick Strength:1800psi-2000psi)</b> including scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing <b>with 1:3</b>				
		Cft	1124.88		
6	Providing and laying <b>1 : 2 : 4 cement concrete</b> using approved coarse sand and crushed aggregate 3/4" (19mm) & down gauge in foundation including levelling, compacting and curing.				
		Cft	239.63		
7	Providing and laying <b>1:2:4 cement concrete</b> using approved coarse sand and crushed aggregate 3/4" (19mm.) and down gauge in <b>plinth band</b> , door band and roof band of required shape or section including formwork and its removal, compacting and curing in basement and ground floor but excluding the cost of reinforcement.				
		Cft	309.38		

S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
8	Providing and laying <b>first class solid burnt brick</b> masonry ( <b>Brick Strength:1800psi-2000psi</b> ) including scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing <b>with 1:3</b>				
		Cft	2323.31		
9	Providing and laying <b>1:2:4 cement concrete</b> using approved coarse sand and crushed aggregate 3/4" (19mm.) and down gauge in plinth band, <b>door band</b> and roof band of required shape or section including formwork and its removal, compacting and curing in basement and ground floor but excluding the cost of reinforcement.				
		Cft	160.45		
10	Filling and compacting soil, earth and boulders behind retaining walls (including excavation of soil and lead up to 50 ft. (15m)				
		Cft	1577.50		
11	<b>Providing and laying plain</b> hand mixed <b>1 : 4 : 8</b> cement concrete using sand approved source and crushed aggregate having maximum size up to 1-1/2" (38mm) & down gauge in foundation and plinth including levelling, compacting & curing.				
		Cft	525.83		
12	Providing and laying <b>1:2:4 cement concrete</b> using approved coarse sand and crushed aggregate 3/4" (19mm.) and down gauge in plinth band, door band and <b>roof band</b> of required shape or section including formwork and its removal, compacting and curing in basement and ground floor but excluding the cost of reinforcement.				
		Cft	540.47		
13	Providing and laying <b>1:2:4 cement concrete</b> using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in <b>slabs</b> including formwork and its removal, compacting and curing Up to 6" (150 mm) thickness i) In basement, plinth and ground floor				
		Cft	859.25		
14	<b>Cement plaster</b> using Coarse Sand on soffits of ceiling, cantilever slabs, sides and soffits of beams, in basement and ground floor including making edges, corners and curing. <b>1/2 inch (13mm) thick cement sand plaster 1:4</b>				
		Sft	1637.50		
15	<b>3/4 inch (19mm) thick cement plaster</b> using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing. The mix ratio is 1:4 cement sand.				
		Sft	3654.13		

S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
16	<b>3/4 inch (19mm) thick cement plaster</b> using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing. Extra if false <b>pointing</b> is required with lime/surkhi or pigment on plastered surface of any description in any floor.				
		Sft	1446.00		
17	Providing and laying floor 1:2:4 reinforced cement concrete using crushed aggregate 3/4" (19mm) and ground floor including formwork, consolidation, finishing and curing but excluding the cost of reinforcement 3" (75 mm) nominal thick flooring				
		Cft	630.00		
18	Providing and laying super white 12"x12" <b>marble tiles floor</b> fine dressed on surface without winding in ground floor and laid over 1" (25mm) thick cement sand mortar 1:2 setting tiles with Portland cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing including the cost of cement mortar. <b>1" (25 mm) thick marble tiles floor</b>				
		Sft	630.00		
19	Providing and laying Conglomerate flooring (two coat work) having 1/2" (9mm) thick wearing surface comprising 1 part of cement & 2 parts of stone chips passing 3/16" sieve, over <b>1:3:6 concrete</b> base using crushed aggregate laid in panels or approved pattern including formwork, curing, and surface finishing as approved by Engineer Incharge. mortar.				
		cft	150.00		
20	Providing and fixing moulded steel door frame of approved profile, manufactured from zinc-coated mild steel sheets 16 gauge made by Shahah Industries or equivalent standard conforming to B.S.S.1245, treated with special primer base paint all round, fitted with six fixing lugs, three steel hinges for fixing door shutters standard lock-strike plate, one sliding holt eye, and three rubber buffers, including cutting holes and making good damages to walls and filling the door frame cavity with lean cement mortar 1:4 as directed by the Engineer				
		Rft	60.00		
21	Fabricate and fixing wooden American keil export quality door size 102" x 66" complete with frame, hinges, locking system including the cost of painting door, with out damaged walls if any as per instruction.				
		Sft	96.00		

S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
22	Providing and fixing fully glazed single leaf hung/sliding steel windows, ventilators (2mm thick) of anodized champagne or approved section as approved by Engineer incharge including including three coat of clean paint work oil paint				
		Sft	378.00		
23	Providing and fixing windows grill with steel square section 0.5"x0,5" in approved design and quality as approved by site incharge.				
		Sft	378.00		
24	Distempering with Berger, ICI or equivalent synthetic polyvinyl emulsion finish of approved shade in two or more coats over and including the cost of priming coat including preparation of surface viz. dusting, sand papering or rubbing with pumice stone, filling cracks or holes, if any, removing blisters or other imperfections at any height and any floor. (@ at least 2.20 Litre per 10 Sq.m)				
		Sft	1637.50		
25	Applying weather resistant paint coating such as ICI weather shield, Berger weather coat or equivalent to interior or exterior walls or ceiling including supplying all labour, materials, scaffoldings and removal of debris etc. @ at least 3.50 litre per 10				
		Sft	1446.00		
25	Painting in ground floor or basement with Robbialac or equivalent super gloss synthetic enamel paint in two or more coats as per manufacturer's instruction on <b>wood work</b> over and including the cost of priming coat, surface preparation, rubbing down smooth, knotted, filling cracks, holes and joints.				
		Sft	96.00		
26	Electric works: Providing wiring for 4 points 3-29 copper wire and provision of 16 lights 25watt energy saver led, 3 Pak fan AC & DC convertible connected with three solar plates (545 watt each room) including switch boards and regulators as per instruction				
		Job	1.00		
<b>TOTAL - 1 Block of Three Classrooms at School #46</b>					
<b>GRAND TOTAL FOR 2 NEW BLOCKS OF THREE CLASSROOMS EACH AT #46</b>					



S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
<b>6. SCHOOL #46</b>					
<b>A) Repair Work at School #46</b>					
S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
1a	<b>New Mud Roof with Leaping Works</b> Providing and laying mud plaster 25 mm thick and leaping over 75 mm thick mud on roofs including laying of 2.5 mm polyethene sheet.	SQFT	2500		
1b	<b>Dismantling Works</b> Removing mud from roofs, including plastering and leaping.	CFT	1000		
2	Providing & fixing bamboos of 22 ft length.	RFT	500		
3	Providing & fixing 3 Girder of 16 RFT length in class rooms 1. 4 Girder=16 feet 2. 10 Girder=12 feet	RFT	150		
4	<b>Scraping Mud Plaster Works</b> Scraping the existing & damaged Plaster, any thickness.	SQFT	4000		
5	<b>External Mud Plaster Works</b> Providing and applying 19 mm thick mud plaster including 3 mm thick leaping on all the external walls of class rooms.	SQFT	4000		
6	<b>White Wash Works</b> Providing & applying white or Colour wash on new/old surface, 1st coat & subsequent coats, including removal of the old or existing white wash.	SQFT	6000		
7	<b>Door Paint Work</b> 1st coat of painting on new or old work such as steel doors and windows of any type and description with synthetic enamel paint, including the removal or burning of old paint.	SQFT	350		
8	<b>Mud Brick Mortar Masonry</b> Providing and laying sun dried brick masonry wall in class rooms set in stiff clay free from impurities/salts & raking out of joints complete in all respect. For raising the height	CFT	500		
9	<b>Roof Chemical Treatment</b> Supplying and laying of Bitumen, applied hot on roof @ 0.75 kg/sqm and blinded with sand at 0.012 cum per sqm (including cleaning surface)	SQFT	2000		
10	Supplying and fixing of Indian WC	Nos	3		
11	Excavation for soakage pit	CFT	282		
12	Back Filling of floor	CFT	1500		

S.N	DESCRIPTION	UNIT	QTY	RATE	AMOUNT IN PKR
13	<b>P.C.C Flooring</b> Providing & laying of P.C.C Flooring using crushed or broken stone graded 1:3:6, including curing, compacting & finishing complete in all respect.	CFT	400		
<b>TOTAL - Repair Work at School #46</b>					
<b>GRAND TOTAL REPAIR OF SCHOOL #46</b>					
<b>SUMMARY OF SCHOOLS AT CHAGHI RV</b>					
	<b>DESCRIPTION</b>				<b>AMOUNT</b>
1	GRAND TOTAL FOR SCHOOL #40				
2	GRAND TOTAL FOR SCHOOL #41				
3	GRAND TOTAL FOR SCHOOL #42				
4	GRAND TOTAL FOR SCHOOL #43				
5	GRAND TOTAL FOR 2 NEW BLOCKS OF THREE CLASSROOMS EACH AT #46				
6	GRAND TOTAL REPAIR OF SCHOOL #46				
	<b>GRAND TOTAL FOR CHAGHI RV</b>				