	Detailed Estimate of Rehabilitation and Seismic Retrofitting of School  Govt. BHU, yakmuch, Chagai	and BHU S	tructı	ures (RAPIE	<u>)</u>
Sr No	Description of Items	OLIANTITY	UNIT	RATES (Rs)	AMOUNT
C1	Dismentaling works	QO/MITTI	01411	10 (125 (13)	7.117100111
CI	Removing loose material of concrete of any thickness from ceiling, walls, floor, beams and				
	columns, brushing and cleaning with solution of cautic soda the surface of brick masonry and				
1	,	1 300	SFT		
	concrete preparing of surfaces ,levelling as per instruction of the Engineers and disposing of				
	the rubbish in any floor.	<u> </u>			<u> </u>
2	Scraping, rubbing and cleaning emulsion finish distemper, snowcem and paints of all sort from	3000	SFT		
	walls and ceiling including, removal of rubbish in all floors.			ļ	
3	Removing cement or lime plaster of any thickness from ceiling and disposing of the rubbish in	1050	SFT		
	any floor and chiffed and cleaning of surfaces.		-		
	Excavation in foundation of buildings, bridges and other structures, depth upt 4 meters				
4	including dag bellings dressing, refilling around structures with excavated earth, watering and	30	CFT		
	ramming lead upto 30 m lift up to 1.5 m.				
	Sub-total of C1			Total	
C2	Rehabilitationa and Restoration works				
	Providing and laying plain machine mixed cement concrete 1:2:4 using coarse sand and				
	crushed aggregate having maximum size upto 1-1/2" (38mm) & down gauge in foundation				
1	including levelling, compacting and curing as per instruction of engineer.	4	CFT		
	medaling revening, compacting and earing as per instruction of engineer.				
	Denair of small grack in walls, floor, hearns and solumns by chiesal out the grack using wire				
	Repair of small crack in walls, floor, beams and columns by chiesel out the crack using wire				
2	brush or portable drill with wire arrangement and apply rich mortor (1:2) with thin layer of rich	30	RFT		
	cement slurry over lay or by some epoxies (LSR grouting through injection ) as per instruction				
	of Engineer.				
	Repair of major crack in walls, floor by chiesel out the crack using wire brush or portable drill				
3	with wire arrangement and drilling holes in both sides of the crack and grouting in U shaped	30	RFT		
3	metal units with short legs called staples or stiching dogs covering with thin layer of cement	30	KFI		
	plaster as per instruction of Engineer.				
	The damaged crushed concrete or honey combing in concrete of columns, footing, fountation,				
	beams and walls, are to be repaired by removing the crushed concrete in the area and				
4	reconcreting with rich mix of concrete grout with Sikacrete 114 as per instruction of Engineer.	450	SFT		
	reconcreting with her mix of concrete grout with sixacrete 114 as per instruction of Engineer.				
	Compart plactor (1:2) using Coarse Cond on soffits of sailing contilever slobe sides and soffits of				1
_	Cement plaster (1:3) using Coarse Sand on soffits of ceiling, cantilever slabs, sides and soffits of	l	657		
5	beams, walls and columns in basement, plinth and ground floor including making edges,	500	SFT		
	corners and curing as per intstruction of engineer.				
	Sub-total of C2			Total	
C3	Seismic Retrofitting works				
1	Footing and Tie Beam				
	Providing and laying cement concrete (1:1.5:3)using approved coarse sand and crushed				
1.1	aggregate 3/4" (19mm) & down gauge in foundation, ground floor, including leveling	26			
1.1	compacting and curing and plaster using cement slurry (1:3) as per instruction of engineer.	26	SFT		
	Providing, fabricating and laying deformed Grade 40 steel reinforcement (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				
1.2	shown on the drawings. The cost of binding wire and cement concrete spacer blocks or chairs	1.5	TON		
	for binding and holding the reinforcement in position is inclusive upto 30 ft. height				
	for binding and holding the reimorcement in position is inclusive upto 50 ft. height				
<u> </u>	Peam/Column and Joint Jacketing and Herizontal Pandages and Vertical Splints				
2	Beam/Column and Joint Jacketing and Horizontal Bandages and Vertical Splints		<del>                                     </del>		1
	Description following and leading defence of Conde 40 starts 1.15 section 11.15 sectio				
	Providing, fabricating and laying deformed Grade 40 steel reinforcement (deformed bar) for all				
2.1	kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening,	1.5	TON		
	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 upto 30 ft. height				
2.2	Drilling and grouting holes upto 3" (75 mm) dia in existing concrete for	350	חרד		
2.2	reinforcement bars.	250	RFT		
	Providing and laying 1.5" rich concrete cement (1:1.5:3) using coarse sand and crushed				
2.3	aggregate 3/4" (19mm) and down gauge in columns of any shape in super structure including	160	SFT		
2.5	compacting, curing, cost of form-work & its removal in basement and ground floor and 0.5"	100	"		
	plaster using cement slurry (1:3) as per instruction of engineer.				
			<del>                                     </del>		1
	Droviding and loving 1 Ell migrocongrate (4.4 E.2) write City and 4.4 Audit				
2.4	Providing and laying 1.5" microconcrete (1:1.5:3) using Sikacrete 114 with appropriate design	1050	SFT		
	mix using sand and fine and crushed aggregate at wall, columns, beams and finished with 1/2"				
	thick cement plaster 1:3 including curing as per instruction of Engineer.				
	Sub-total of C3			Total	
C4	Finishing works				
	Providing and fixing glass panes of the following types in wooden or steel frames of doors,				
1	windows, ventilators etc complete in all respect including wooden gola beading in any floor,	15	Nos		
_					
-	ceiling, wooden notice board with frame.	<del>                                     </del>		1	1
			l		
	White Wash of All School BHUs, & repair and retrofit finished work of approved shade in two				
2	White Wash of All School BHUs, & repair and retrofit finished work of approved shade in two or more coats over and including the cost of one priming coat of lie wash including dusting,	3000	SFT		
	White Wash of All School BHUs, & repair and retrofit finished work of approved shade in two	3000	SFT		
	White Wash of All School BHUs, & repair and retrofit finished work of approved shade in two or more coats over and including the cost of one priming coat of lie wash including dusting, filling the holes, cracksand removing inequalities, if any, at any height in any floor.		SFT	Total	
	White Wash of All School BHUs, & repair and retrofit finished work of approved shade in two or more coats over and including the cost of one priming coat of lie wash including dusting,			Total rand Total	

	Detailed Estimate of Rehabilitation and Seismic Retrofitting of School Govt. BHU, Padgah, Chagai	and BHU St	tructu	res (RAPID)	
Sr.No	Description of Items	QUANTITY	UNIT	RATES (Rs)	AMOUNT
C1	Dismentaling works Removing loose material of concrete of any thickness from ceiling, walls, floor, beams	<b>Q 0</b> / 11 / 11 / 11 / 11 / 11 / 11 / 11 /			
1	and columns, brushing and cleaning with solution of cautic soda the surface of brick masonry and concrete preparing of surfaces, levelling as per instruction of the Engineers and disposing of the rubbish in any floor.	270	SFT		
2	Scraping, rubbing and cleaning emulsion finish distemper, snowcem and paints of all sort from walls and ceiling including, removal of rubbish in all floors.	4000	SFT		
3	Removing cement or lime plaster of any thickness from ceiling and disposing of the rubbish in any floor and chiffed and cleaning of surfaces.	1800	SFT		
4	Excavation in foundation of buildings, bridges and other structures, depth upt 4 meters including dag bellings dressing, refilling around structures with excavated earth, watering and ramming lead upto 30 m lift up to 1.5 m.	48	CFT		
C2	Sub-total of C1 Rehabilitationa and Restoration works			Total	
1	Providing and laying plain machine mixed cement concrete 1:2:4 using coarse sand and crushed aggregate having maximum size upto 1-1/2" (38mm) & down gauge in foundation including levelling, compacting and curing as per instruction of engineer.	24	CFT		
2	Repair of small crack in walls, floor, beams and columns by chiesel out the crack using wire brush or portable drill with wire arrangement and apply rich mortor (1:2) with thin layer of rich cement slurry over lay or by some epoxies (LSR grouting through injection ) as per instruction of Engineer.	20	RFT		
3	Repair of major crack in walls, floor by chiesel out the crack using wire brush or portable drill with wire arrangement and drilling holes in both sides of the crack and grouting in U shaped metal units with short legs called staples or stiching dogs covering with thin layer of cement plaster as per instruction of Engineer.	20	RFT		
4	The damaged crushed concrete or honey combing in concrete of columns, footing, fountation, beams and walls, are to be repaired by removing the crushed concrete in the area and reconcreting with rich mix of concrete grout with Sikacrete 114 as per instruction of Engineer.	120	SFT		
5	Cement plaster (1:3) using Coarse Sand on soffits of ceiling, cantilever slabs, sides and soffits of beams, walls and columns in basement, plinth and ground floor including making edges, corners and curing as per intstruction of engineer.	4000	SFT		
	Sub-total of C2			Total	
1	Seismic Retrofitting works Footing and Tie Beam				
1.1	Providing and laying cement concrete (1:1.5:3)using approved coarse sand and crushed aggregate 3/4" (19mm) & down gauge in foundation, ground floor, including leveling compacting and curing and plaster using cement slurry (1:3) as per instruction of engineer.		SFT		
1.2	Providing, fabricating and laying deformed Grade 40 steel reinforcement (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 upto 30 ft. height	1	TON		
2	Beam/Column and Joint Jacketing and Horizontal Bandages and Vertical Splints				
2.1	Providing, fabricating and laying deformed Grade 40 steel reinforcement (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 upto 30 ft. height	1.5	TON		
2.2	Drilling and grouting holes upto 3" (75 mm) dia in existing concrete for reinforcement bars.	250	RFT		
2.3	Providing and laying 1.5" rich concrete cement (1:1.5:3) using coarse sand and crushed aggregate 3/4" (19mm) and down gauge in columns of any shape in super structure including compacting, curing, cost of form-work & its removal in basement and ground floor and 0.5" plaster using cement slurry (1:3) as per instruction of engineer.	270	SFT		
2.4	Providing and laying 1.5" microconcrete (1:1.5:3) using Sikacrete 114 with appropriate design mix using sand and fine and crushed aggregate at wall, columns, beams andfinished with 1/2" thick cement plaster 1:3 including curing as per instruction of Engineer.	1750	SFT		
C4	Sub-total of C3 Finishing works			Total	
1	Providing and fixing glass panes of the following types in wooden or steel frames of doors, windows, ventilators etc complete in all respect including wooden gola beading in	12	Nos		
2	any floor, ceiling, wooden notice board with frame.  White Wash of All School BHUs, & repair and retrofit finished work of approved shade in two or more coats over and including the cost of one priming coat of lie wash including dusting, filling the holes, cracksand removing inequalities, if any, at any height in any floor.	4000	SFT		
	Sub-total of C4 Total C1+C2+C3+C4		Total Grand Total		