



Project Implementation Unit (PIU)
Khyber Pakhtunkhwa Rural Investment and Institutional
Support Project (KP-RIISP)
Public Health Engineering Department (PHED)
Government of Khyber Pakhtunkhwa (GOKP)

PROCUREMENT OF SMALL WORKS
INTEGRATED WATER SUPPLY & SANITATION -
REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER
RFB No. KH-CW-R-03

BILL OF QUANTITIES

March 2026

BILL OF QUANTITIES

Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices as given in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
3. The rates and prices as given in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore, all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works, or the same shall be determined by the Engineer in accordance with Conditions of Contract.
6. General directions and description of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the Bill of Quantities.
7. The following abbreviations for units have been used in Bill of Quantities:

Units		Abbreviations
Cubic Meter	=	Cum
Square Meter	=	Sqm
Meter	=	Mtr

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package No. RFB-KH-CW-R-03

BILL OF QUANTITIES

GRAND SUMMARY

S. No.	Description	Amount (Rs.)
1	Water Supply Schemes	
2	Sanitation Schemes	
	Total	

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package No. RFB-KH-CW-R-03

BILL OF QUANTITIES

WATER SUPPLY SCHEMES

SUMMARY OF COST

S. No.	Name of Scheme	Amount (Rs.)
1	DWSS Kam Shalman	
2	DWSS Lowera Maina	
3	E&S Compliance	
	Total	

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contact Package :RFB- KH-CW-R-03

BILL OF QUANTITIES

Drinking Water Supply Schemes - Kam Shalman

SUMMARY

Bill No.	Works Description	Amount (Rs.)
1	Civil Works, Repair of Pump Chamber , Boundary Wall , Storage Tanks & Solar Yard	
2	Distribution System and Rising Main Replacement , Construction of Valve Chamber	
3	Electrical Works for Repair of Pump Chamber	
	Total Cost (Rs.)	

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Drinking Water Supply Schemes - Kam Shalman

Bill No. 1: Civil Works, Repair of Pump Chamber , Boundary Wall , Storage Tanks & Solar Yard

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	04-22-a	Dismantling 1st class tile roofing	Sqm	7.30			
2	07-05-a-03	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:4	Cum	1.18			
3	11-09-b	Cement plaster 1:4, upto 20' height 1/2" thick	Sqm	60.63			
4	11-18-b	Cement pointing struck joints, on walls, upto 20' height : Ratio 1:3	Sqm	13.94			
5	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)	Cum	1.95			
6	09-.01	First class tile roofing including earth, mud plaster, gobri leeping, cement plaster etc complete	Sqm	7.30			
7	11-21-b-02	Distempering old surface : Two coats	Sqm	36.48			
8	11-23-a-02	White washing: New surface : Two coats	Sqm	160.86			
9	11-29.	Extra cost of labour & material for red oxide pigment in cement pointing to match bricks	Sqm	168.59			
10	24-18-a-01	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 3" Nominal Pipe Size (NPS)	Meter	3.66			
11	25-43	Providing and fixing barbed (22 SWG) wire fence on compound wall, consisting of 1.5"x1.5"x3/16" angle iron post 3 ft long, 4 ft apart embedded in cement concrete 1:2:4 base of size 6"x6"x9", and 4 rows of barbed wire, including binding wire, painting posts, etc. complete in all respects.	Meter	30.48			
12	13-02-c-01	Painting old surfaces : Doors / windows any type First coat	Sqm	10.59			
13	13-02-c-02	Painting old surfaces : Doors / windows any type Each subsequent coat	Sqm	10.59			
14	10-41-a-02	Mosaic dado or skirting complete as per specs Using grey cement : 1/2" thick	Sqm	125.87			
15	24-34.	Supplying and Fixing flat iron (2"x3/8") ladder for OHR, holes @ 15" c/c, steps of MS bars 5/8" i/d & paint compl	Meter	6.10			
16	25-46	Erection of Steel Girder 4"x8"x3/16" (Commercial size) including fitting in position	Meter	3.66			
17	06-44-b	PCC 1:3:6 in mass concrete less formwork using 40% boulders	Cum	47.00			
18	06-47-d	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shape - Position / Vertical	Sqm	226.77			
19	25-45-a	Supplying and Fixing 18 SWG MS Sheet Door with angle iron frame (1.5"x1.5"x1/8"), bolt, hinges, paint etc complete (2' x 2' Roof Cover)	Sqm	0.58			
20	27-18-b	Extraction of Turbine/Submersible Pump & lowering/installation of the same after necessary repair (Above 200 ft)	Rft	20.00			
21	06-02.	Dry rammed shingle brick ballast or stone ballast 1.5" to 2" guage (Solar Yard)	Cum	5.89			
22	10-49-f	Providing and Fixing Precast Concrete 3000 psi TUFF Tiles 50mm thick over bed of 2" thick sand (Path Ways)	Sqm	74.35			
23	03-21-b	Dressing & levelling earth to designed sections Ordinary or hard soil upto cut or fill 6 inches	Cum	11.33			
24	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	5.66			
25	24-13-b	Testing and developing of tube well with DNT unit 8" i/d and above complete as per specifications	Hour	9.00			
Sub Total Amount							
Add 5% Area Factor							
Total Amount							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Drinking Water Supply Schemes - Kam Shalman

Bill No.2: Distribution System and Rising Main Replacement

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	24-24-a-03	Providing and fixing of air valve of BSS quality and weight BS 1074 complete with jointing material single air valve 3" (75mm) dia	Each	1.00			
2	24-22-a-01	Providing and Fixing of Sluice valve of BSS quality (BS 5163) for GI, PVC, MS , HDPE and also for all type of pipes i/c rubber sheet , jointing material complete in all respect PN-16, 3" (75 mm) dia of Valve	Each	1.00			
3	27-51	Replacing of pressure gauge 0 to 500	No	1.00			
		Repair /removal & testing of leakages in existing/ already laid pipe line i/c cost of extraction/ excavation with welding joint coating with bictumen/ red oxide and reinstallation to its original position after refilling with excecavated material etc: complete in all respect of the following sizes.					
4	24-52-b	4" (100 mm) dia	Each	2.00			
5	24-52-c	3" (75 mm) dia	Each	2.00			
6	24-52-d	2" (50 mm) dia	Each	7.00			
		Providing, laying, cutting, jointing, testing and disinfecting GI pipeline in trenches, with socket joint, using GI pipes of EN 10255 - 2004 (Approved Light quality) including specials etc.Complete as per specifications except excavation.					
7	24-16-c-09	4" Nominal Pipe Size (NPS)	Meter	200.00			
8	24-16-c-08	3" Nominal Pipe Size (NPS)	Meter	141.00			
9	24-16-c-06	2" Nominal Pipe Size (NPS)	Meter	2682.00			
10	24-16-c-05	1.5" Nominal Pipe Size (NPS)	Meter	3205.00			
CONSTRUCTION OF VALVE CHAMBER							
11	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	4.82			
12	06-05-h	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:3:6)	Cum	0.68			
13	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	0.04			
14	07-04-a-03	1st class brick work in foundation and plinth in Cement, sand mortar 1:4	Cum	1.60			
15	11-09-b	Cement plaster 1:4 upto 20' height 1/2" thick	Sqm	5.48			
16	06-07-a-03	RCC in roof slab, beam, column & other structural members, insitu or precast. (1:2:4)	Cum	0.29			
17	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	0.06			
Total Amount (S.I)							
Add 5% Area Factor							
Total Amount							
Non Schedule Items							
18	NSI	Providing & Fixing commissioning of Hypo Chlorinator (make Etatraon Italy (Non Digital or equivalent) consisting of multifunction dosing pump having capacity of 7 Liter/hour and operating pressure of 7 bar, having standard power supply of 230V A.C, 50-60 Hz single phase, Insulation protection rating of IP65, complete with all accessories like injection valve, suction hose, discharge hose, valves, PKXMA/AL model, level switch, dosing tank to be installed complete in all respect with sodium hypochlorite liquid.	Each	1.00			
19	NSI	Supply & Erection of Flow Meter 63 mm Dia Complete In all respects (Digital).	Each	1.00			
Total Amount (N.S.I)							
G.Total Amount (S.I + N.S.I)							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contact Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Drinking Water Supply Schemes - Kam Shalman

Bill No.3: Electrical Work for Pump Chamber

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	15-50	Wiring of light/fan/call-bell point in 3/0.029" PVC insulated bare cable in PVC pipe recessed	Each	4.00			
2	15-68-f	Supply and Fixing of 24" dia Direct axial Wall Bracket fan,1450Rpm, Max 50db sound level Fan shall be made with 99% purity Copper windings	Each	1.00			
3	15-46	Wiring of 2/3-pin 5-Amp plug point in 3/0.029" PVC insulated & sheathed cable on sahl wood	Each	1.00			
4	15-15	Supply and Erection wall/pole type bracket with double cover water tight reflector flexible wire & brass holder	Each	1.00			
5	15-11-a-02	Supply and erection iron/aluminium clad 500 volt main switch double pole: 30/35 Amp	Each	1.00			
6	15-127-f	Supply at site, installation, testing and commissioning of Six gang light control switches 10 Amps, 250Volts one way, including appropriate size concealed MS, powder coated back box, complete in all respects.	Each	1.00			
7	26-01-c-06	Supply and Erection of AC ENERGY EFFICIENT LED LIGHT BULBS (16-20 W)	No	2.00			
8	15-79-c	PVC conduit for surface wiring (dura duct) 1.5" including all charges for nail screws etc complete	Meter	25.00			
Sub Total Amount							
Add 5% Area Factor							
Total Amount							

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**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contact Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Drinking Water Supply Schemes - Lowera Maina

SUMMARY

Bill No.	Description	Amount (Rs.)
1	Civil Works for Repair of Pump Chamber & Chowkidar Room and Storage Tank	
2	Distribution System and Rising Main Repair/ Replacement , Construction of Valve Chamber	
3	Electrical Works for Pump Chamber & Chowkidar Room	
	Total Cost (Rs.)	

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contact Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Drinking Water Supply Schemes - Lowera Maina

Bill No. 1: Civil Works for Repair of Pump Chamber Chowkidar Room and Storage Tank

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	04-22-a	Dismantling 1st class tile roofing	Sqm	11.25			
2	07-05-a-03	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:5	Cum	1.74			
3	11-09-b	Cement plaster 1:4, upto 20' height 1/2" thick	Sqm	23.05			
4	11-18-b	Cement pointing struck joints, on walls, upto 20' height : Ratio 1:3	Sqm	9.29			
5	09-01	First class tile roofing including earth, mud plaster, gobi leaping, cement plaster etc complete	Sqm	21.48			
6	11-21-b-02	Distemping Old surface : Two coats	Sqm	92.94			
7	11-23-a-02	White washing: New surface : Two coats	Sqm	15.61			
8	11-29	Extra cost of labour & material for red oxide pigment in cement pointing to match bricks	Sqm	61.34			
9	24-18-a-01	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 3" Nominal Pipe Size (NPS)	Meter	7.31			
10	25-43	Providing and fixing barbed (22 SWG) wire fence on compound wall, consisting of 1.5"x1.5"x3/16" angle iron post 3 ft long, 4 ft apart embedded in cement concrete 1:2:4 base of size 6"x6"x9", and 4 rows of barbed wire, including binding wire, painting posts, etc. complete in all respects.	Meter	15.24			
11	13-02-c-01	Painting old surfaces : Doors / windows any type First coat	Sqm	16.73			
12	13-02-c-02	Painting old surfaces : Doors / windows any type Each subsequent coat	Sqm	16.73			
13	10-41-a-02	Mosaic dado or skirting complete as per specs Using grey cement : 1/2" thick	Sqm	178.59			
14	25-46	Erection of Steel Girder 4"x8"x3/16" (Commercial size) including fitting in position	Meter	3.66			
15	25-45-a	Supplying and Fixing 18 SWG MS Sheet Door with angle iron frame (1.5"x1.5"x1/8"), bolt, hinges, paint etc complete (2' x 2' Roof Cover)	Sqm	0.58			
Sub Total Amount							
Add 5% Area Factor							
Total Amount							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Drinking Water Supply Schemes - Lowera Maina

Bill No. 2: Distribution System and Rising Main Repair/ Replacement

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	24-24-a-04	Providing and fixing of air valve of BSS quality and weight BS 1074 complete with jointing material single air valve 4" (100 mm) dia	Each	1.00			
2	24-24-a-03	Providing and fixing of air valve of BSS quality and weight BS 1074 complete with jointing material single air valve 3" (75mm) dia	Each	1.00			
3	24-22-c-01	Providing and Fixing of Sluice valve of BSS quality (BS 5163) for GI, PVC, MS , HDPE and also for all type of pipes i/c rubber sheet , jointing material complete in all respect PN-16, (6" (150 mm) dia of Valve	Each	1.00			
4	24-22-b-01	Providing and Fixing of Sluice valve of BSS quality (BS 5163) for GI, PVC, MS , HDPE and also for all type of pipes i/c rubber sheet , jointing material complete in all respect PN-16, 4" (100 mm) dia of Valve	Each	1.00			
5	24-22-a-01	Providing and Fixing of Sluice valve of BSS quality (BS 5163) for GI, PVC, MS , HDPE and also for all type of pipes i/c rubber sheet , jointing material complete in all respect PN-16, 3" (75 mm) dia of Valve	Each	1.00			
6	27-51	Replacing of pressure gauge 0 to 500	No	1.00			
		Repair /removal & testing of leakages in existing/ already laid pipe line i/c cost of extraction/ excavation with welding joint coating with bictumen/ red oxide and reinstallation to its original position after refilling with exexcavated material etc: complete in all respect of the following sizes.					
7	24-52-b	4" (100 mm) dia	Each	10.00			
		Providing, laying, cutting, jointing, testing and disinfecting GI pipeline in trenches, with socket joint, using GI pipes of EN 10255 - 2004 (Approved Light quality) including specials etc.Complete as per specifications except excavation.					
8	24-16-c-09	4" Nominal Pipe Size (NPS)	Meter	1533.00			
9	24-16-c-08	3" Nominal Pipe Size (NPS)	Meter	197.00			
10	24-16-c-07	2.5" Nominal Pipe Size (NPS)	Meter	1567.00			
11	24-16-c-06	2" Nominal Pipe Size (NPS)	Meter	823.00			
12	24-16-c-05	1.5" Nominal Pipe Size (NPS)	Meter	2752.00			
13	24-16-c-03	1" Nominal Pipe Size (NPS)	Meter	238.00			
CONSTRUCTION OF VALVE CHAMBER							
14	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	7.22			
15	06-05-h	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:3:6)	Cum	1.01			
16	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	0.06			
17	07-04-a-03	1st class brick work in foundation and plinth in Cement, sand mortar 1:4	Cum	2.41			
18	11-09-b	Cement plaster 1:4 upto 20' height 1/2" thick	Sqm	8.23			
19	06-07-a-03	RCC in roof slab, beam, column & other structural members, insitu or precast. (1:2:4)	Cum	0.43			
20	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	0.09			
Sub Total Amount (S.I)							
Add 5% Area Factor							
Total Amount							

21	NSI	Providing & Fixing commissioning of Hypo Chlorinator (make Etatraon Italy (Non Digital or equivalent) consisting of multifunction dosing pump having capacity of 7 Liter/hour and operating pressure of 7 bar, having standard power supply of 230V A.C, 50-60 Hz single phase, Insulation protection rating of IP65, complete with all accessories like injection valve, suction hose, discharge hose, valves, PKXMA/AL model, level switch, dosing tank to be installed complete in all respect with sodium hypochlorite liquid.	Each	1.00			
22	NSI	Supply & Erection of Pressure Guage 110 mm Dia Vaccum Upto 350 psi Complete In all respects (Digital).	Each	1.00			
23	NSI	Supply & Erection of Flow Meter 110 mm Dia Complete In all respects (Digital).	Each	1.00			
Total Amount (N.S.I)							
G.Total Amount (S.I + N.S.I)							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Drinking Water Supply Schemes - Lowera Maina

Bill No. 3: Electrical Work for Pump Chamber & Chowkidar Room

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	15-50	Wiring of light/fan/call-bell point in 3/0.029" PVC insulated bare cable in PVC pipe recessed	Each	6.00			
2	15-68-f	Supply and Fixing of 24" dia Direct axial Wall Bracket fan,1450Rpm, Max 50db sound level Fan shall be made with 99% purity Copper windings	Each	1.00			
3	15-46	Wiring of 2/3-pin 5-Amp plug point in 3/0.029" PVC insulated & sheathed cable on sahl wood	Each	2.00			
4	15-15	Supply and Erection wall/pole type bracket with double cover water tight reflector flexible wire & brass holder	Each	2.00			
5	15-11-a-02	Supply and Erection of iron/aluminium clad, 500V main switch Double pole : 30/35 Amp	Each	1.00			
6	15-127-f	Supply at site, installation, testing and commissioning of Six gang light control switches 10 Amps, 250Volts one way, including appropriate size concealed MS, powder coated back box, complete in all respects.	Each	2.00			
7	26-01-c-06	Supply and Erection of AC ENERGY EFFICIENT LED LIGHT BULBS (16-20 W)	No	4.00			
8	15-79-c	PVC conduit for surface wiring (dura duct) 1.5" including all charges for nail screws etc complete	Meter	40.00			
Sub Total Amount							
Add 5% Area Factor							
Total Amount							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
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Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Drinking Water Supply Schemes

E&S COMPLIANCE COST

S.No.	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
1	Provision of green cloth, 4 colour waste bins (240 Liters), warning tape, necessary plastic and tarpulin sheet for covering of construction raw material on site and during transportation to the site	Each Site	2			
2	Handling of solid waste (storage, collection, transportation, utilization, and final disposal of solid wastes)	Each Site	2			
3	DCP Fire extinguishers (6 kg) in case of fire (The material of the cylinder is steel. The extinguishing agent is mono ammonium phosphate and ammonium sulfate powder and the discharge time of the agent is 13 seconds). Including the refilling of used chemical and replacement of expired chemical.	Each Site	2			
4	Fire alarm (Signal Transmission: Wired Alarm, Working Principle: Manual Alarm Button)	Each Site	1			
5	Ear plugs (corded Reusable silicon Earplugs)	Each	95			
6	Safety Helmets (PE shell with vents Lining; material: Plastic Chin strap included; Adjust head size by ratchet knob)	Each	20			
7	Safety shoes (Renowned brand)	Each	20			
8	Protective goggles (Anti-fog, Anti scratch, Poly-carbonate Scratch and impact resistant, side protection sheet)	Each	20			
9	Gloves (made up of nylon, polyurethane with ironclad) and safety Vest	Each	20			
10	Dust Mask	Each	111			
11	First Aid Kit (pain killers, eyewash solution, antibiotic ointment, thermometer, plasters, sterile gauze dressings, sterile eye dressings, triangular bandages, crepe rolled bandages, safety pins, disposable sterile gloves and tweezers). Including the refilling of the contents and replacement of expired content.	Each Site	2			
12	Ground water Quality Testing (To be performed twice: Once before the start of construction, second during the construction period)	Each Site	4			
13	Noise level monitoring (Meter)	Each	1			
14	Safety signboards/warning signs for each construction site including signs for; Grievance Rederess Mechanism (GRM) details, Emergency contact numbers, PPEs requirements, First Aid / Fire Extinguisher placement, emergency exit, Procedure of use of Fire Extinguisher and other construction related safety/warning signs)	Each	6			
Total Amount						

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package No. RFB-KH-CW-R-03

BILL OF QUANTITIES

SANITATION SCHEMES

SUMMARY OF COST

S. No.	Name of Scheme	Amount (Rs.)
1	DWSS Kam Shalman	
2	DWSS Lowera Maina	
3	E&S Compliance	
	Total	

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes - Kam Shalman

SUMMARY

Bill No.	Works Description	Amount (Rs.)
1	Sewerage Works	
2	Construction of Septic Tanks	
3	Construction of Soakage Pits	
4	Construction of House Connection Chambers	
	Total Cost Rs.	

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes - Kam Shalman

Bill No. 01: Sewerage Works

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
CIVIL WORKS FOR SEWER LINES							
1	03-51.	Excavation of trench in all kinds of soils except cutting in rock for pipelines upto 1.5m depth	Cum	358.68			
2	03-16-a	Rehandling of earthwork Lead upto a single throw of kassi, shovel, phaorah	Cum	343.97			
3	03-28-a	Mixing & moistening of earth to OMC in layers for compaction etc complete	Cum	343.97			
4	03-20-b	Transportation of earth all types for every 100m extra lead beyond 500m upto 1.5 km	Cum	51.25			
5	03-67-c	Structural Backfill using Common Material available at site	Cum	309.81			
6	03-67-e	Structural Backfill using Common Material brought from outside	Cum	34.16			
7	06-02.	Dry rammed shingle brick ballast or stone ballast 1.5" to 2" guage	Cum	5.12			
8	24-18-a-04	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 6" Nominal Pipe Size (NPS)	Meter	210.00			
9	24-18-a-05	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 8" Nominal Pipe Size (NPS)	Meter	350.00			
10	04-13.	Dismantling brick work in lime or cement mortar	Cum	1.68			
11	04-19-a	Dismantling : Plain Cement Concrete 1:4:8	Cum	2.52			
12	04-19-c	Dismantling : Plain Cement Concrete 1:2:4	Cum	2.80			
13	04-20-a	Dismantling RCC, separating reinforcement, cleaning & straightening the same	Cum	0.50			
14	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	0.65			
15	06-07-b-03	RCC in raft foundation slab, base slab of column & ret. wall etc, not including in 06-07-a-03 (1:2:4)	Cum	6.00			
16	06-47-d	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shape - Position / Vertical	Sqm	15.00			
17	06-47-c	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shape - Position / Horizontal	Sqm	20.00			
STREET PAVEMENT WORKS							
18	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)	Cum	42.00			
19	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	89.25			
20	16-26	Providing and Laying dry brick pavement/soling in streets etc including prep, water, compaction & sand cushion	Cum	24.15			
21	10-49-f	Providing and Fixing Precast Concrete 3000 psi TUFF Tiles 50mm thick over bed of 2" thick sand	Sqm	630.00			
22	03-21-b	Dressing & levelling earth to designed sections Ordinary or hard soil upto cut or fill 6 inches	Cum	178.50			
23	10-47-d	Providing and Fixing marble strip 2" wide and 3/8" thick for dividing the floor into panels	Meter	186.67			
				Sub Total Amount			
				Add 5% Area Factor			
				Total Amount			

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)
INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes - Kam Shalman

Bill No. 02: Construction of Septic Tanks

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	695.434			
2	03-67-c	Structural backfill using Common Material available at site	Cum	135.217			
3	03-67-e	Structural Backfill using Common Material brought from outside	Cum	32.74			
4	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	17.947			
5	06-07-a-02	RCC in roof slab, beam, column & other structural members, insitu or precast. (1:1.5:3)	Cum	35.171			
6	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	2.876			
7	06-47-d	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shpae - Position / Vertical	Sqm	47.14			
8	24-18-a-04	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 6" Nominal Pipe Size (NPS)	Meter	56.00			
9	24-18-a-05	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 8" Nominal Pipe Size (NPS)	Meter	48.00			
10	14-144-b	Supplying and Fixing UPVC soil waste and vent pipe class B : 4" dia	Meter	19.20			
11	14-144-c	Supplying and Fixing UPVC soil waste and vent pipe class B : 3" dia	Meter	3.60			
12	13-08-a	Bitumen coating to plastered / cement concrete surface : 20 lbs. per 100 sft.	Sqm	516.53			
13	06-08-a	Supply & fabricate M.S reinforcement for cement concrete (Plain bars) as Lifting Hooks (#6 / 20 mm plain bars), complete in all respects	Tonne	0.14			
14	07-07-a-03	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:4	Cum	104.06			
15	11-08-b	Cement plaster 1:3 upto 20' height 1/2" thick	Sqm	1025.67			
16	03-16-a	Rehandling of earthwork Lead upto a single throw of kassi, shovel, phaorah	Cum	695.43			
17	03-28-a	Mixing & moistening of earthwork to OMC in layers for compaction etc complete	Cum	167.95			
18	03-20-b	Transportation of earth all types for every 100m extra lead beyond 500m upto 1.5 km.	Cum	527.48			
Sub Total Amount							
Add 5% Area Factor							
Total Amount							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes - Kam Shalman

Bill No. 03: Construction of Soakage Pits

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	269.07			
2	03-67-c	Structural backfill using Common Material available at site	Cum	92.99			
3	03-67-e	Structural Backfill using Common Material brought from outside	Cum	3.39			
4	06-07-a-03	RCC in roof slab, beam, column & other structural members, insitu or precast. (1:2:4)	Cum	13.19			
5	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	1.05			
6	06-47-c	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shpae - Position / Horizontal	Sqm	37.90			
7	06-47-d	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shpae - Position / Vertica	Sqm	73.33			
8	07-07-a-03	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:4	Cum	74.72			
9	06-02.	Dry rammed shingle brick ballast or stone ballast 1.5" to 2" guage	Cum	95.03			
10	24-18-a-04	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 6" Nominal Pipe Size (NPS)	Meter	24.00			
11	24-18-a-05	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 8" Nominal Pipe Size (NPS)	Meter	12.00			
12	14-37-g	Supply and Fixing Plastic manhole cover with frame etc (Heavey Type) of approved quality complete: 24" (610 mm) dia	Each	24.00			
13	03-16-a	Rehandling of earthwork Lead upto a single throw of kassi, shovel, phaorah	Cum	96.38			
14	03-28-a	Mixing & moistening of earthwork to OMC in layers for compaction etc complete	Cum	96.38			
15	03-20-b	Transportation of earth all types for every 100m extra lead beyond 500m upto 1.5 km.	Cum	172.69			
Sub Total Amount							
Add 5% Area Factor							
Total Amount							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes - Kam Shalman

Bill No. 04: Construction of House Connection Chambers

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	199.596			
2	03-67-c	Structural backfill using Common Material available at site	Cum	155.529			
3	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	21.474			
4	07-07-a-03	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:4	Cum	66.807			
5	11-08-b	Cement plaster 1:3 upto 20' height 1/2" thick	Sqm	466.587			
6	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)	Cum	29.41			
7	14-37-c	Supply and Fixing cast iron (CI) manhole cover with frame etc (Heavey Type) of approved quality complete: 24" (610 mm) dia	Set	100.00			
8	13-08-a	Bitumen coating to plastered / cement concrete surface : 20 lbs. per 100 sft.	Sqm	296.92			
9	14-144-b	Supplying and Fixing UPVC soil waste and vent pipe class B : 4" dia	Meter	800.00			
10	24-18-a-04	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 6" Nominal Pipe Size (NPS)	Meter	30.00			
11	03-16-a	Rehandling of earthwork Lead upto a single throw of kassi, shovel, phaorah	Cum	155.529			
12	03-28-a	Mixing & moistening of earthwork to OMC in layers for compaction etc complete	Cum	155.529			
13	03-20-b	Transportation of earth all types for every 100m extra lead beyond 500m upto 1.5 km.	Cum	44.067			
Sub Total Amount							
Add 5% Area Factor							
Total Amount							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes - Lowera Maina

SUMMARY

Bill No.	Works Description	Amount (Rs.)
1	Sewerage Works	
2	Construction of Septic Tanks	
3	Construction of Soakage Pits	
4	Construction of House Connection Chambers	
	Total Cost Rs.	

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes - Lowera Maina

Bill No. 01: Sewerage Works

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
CIVIL WORKS FOR SEWER LINES							
1	03-51.	Excavation of trench in all kinds of soils except cutting in rock for pipelines upto 1.5m depth	Cum	922.32			
2	03-16-a	Rehandling of earthwork Lead upto a single throw of kassi, shovel, phaorah	Cum	889.72			
3	03-28-a	Mixing & moistening of earth to OMC in layers for compaction etc complete	Cum	889.72			
4	03-20-b	Transportation of earth all types for every 100m extra lead beyond 500m upto 1.5 km	Cum	126.56			
5	03-67-c	Structural Backfill using Common Material available at site	Cum	801.88			
6	03-67-e	Structural Backfill using Common Material brought from outside	Cum	87.84			
7	06-02.	Dry rammed shingle brick ballast or stone ballast 1.5" to 2" guage	Cum	13.18			
8	24-18-a-04	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 6" Nominal Pipe Size (NPS)	Meter	920.00			
9	24-18-a-05	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 8" Nominal Pipe Size (NPS)	Meter	520.00			
10	04-13.	Dismantling brick work in lime or cement mortar	Cum	4.32			
11	04-19-a	Dismantling : Plain Cement Concrete 1:4:8	Cum	6.48			
12	04-19-c	Dismantling : Plain Cement Concrete 1:2:4	Cum	7.20			
13	04-20-a	Dismantling RCC, separating reinforcement, cleaning & straightening the same	Cum	1.30			
14	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	0.54			
15	06-07-b-03	RCC in raft foundation slab, base slab of column & ret. wall etc, not including in 06-07-a-03 (1:2:4)	Cum	5.00			
16	06-47-d	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shape - Position / Vertical	Sqm	10.00			
17	06-47-c	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shape - Position / Horizontal	Sqm	16.00			
STREET PAVEMENT WORKS							
18	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)	Cum	108.00			
19	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	229.50			
20	16-26	Providing and Laying dry brick pavement/soling in streets etc including prep, water, compaction & sand cushion	Cum	62.10			
21	10-49-f	Providing and Fixing Precast Concrete 3000 psi TUFF Tiles 50mm thick over bed of 2" thick sand	Sqm	1620.00			
22	03-21-b	Dressing & levelling earth to designed sections Ordinary or hard soil upto cut or fill 6 inches	Cum	459.00			
23	10-47-d	Providing and Fixing marble strip 2" wide and 3/8" thick for dividing the floor into panels	Meter	480.00			
				Sub Total Amount			
				Add 5% Area Factor			
				Total Amount			

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)
INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes - Lowera Maina

Bill No. 02: Construction of Septic Tanks

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	2241.333			
2	03-67-c	Structural backfill using Common Material available at site	Cum	427.470			
3	03-67-e	Structural Backfill using Common Material brought from outside	Cum	105.04			
4	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	59.087			
5	06-07-a-02	RCC in roof slab, beam, column & other structural members, insitu or precast. (1:1.5:3)	Cum	116.816			
6	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	9.431			
7	06-47-d	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shpae - Position / Vertical	Sqm	154.64			
8	24-18-a-04	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 6" Nominal Pipe Size (NPS)	Meter	220.00			
9	24-18-a-05	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 8" Nominal Pipe Size (NPS)	Meter	94.00			
10	14-144-b	Supplying and Fixing UPVC soil waste and vent pipe class B : 4" dia	Meter	66.00			
11	14-144-c	Supplying and Fixing UPVC soil waste and vent pipe class B : 3" dia	Meter	9.00			
12	13-08-a	Bitumen coating to plastered / cement concrete surface : 20 lbs. per 100 sft.	Sqm	1645.58			
13	06-08-a	Supply & fabricate M.S reinforcement for cement concrete (Plain bars) as Lifting Hooks (#6 / 20 mm plain bars), complete in all respects	Tonne	0.44			
14	07-07-a-03	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:4	Cum	333.85			
15	11-08-b	Cement plaster 1:3 upto 20' height 1/2" thick	Sqm	3244.04			
16	03-16-a	Rehandling of earthwork Lead upto a single throw of kassi, shovel, phaorah	Cum	2241.33			
17	03-28-a	Mixing & moistening of earthwork to OMC in layers for compaction etc complete	Cum	532.51			
18	03-20-b	Transportation of earth all types for every 100m extra lead beyond 500m upto 1.5 km.	Cum	1708.83			
Sub Total Amount							
Add 5% Area Factor							
Total Amount							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes - Lowera Maina

Bill No. 03: Construction of Soakage Pits

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	749.76			
2	03-67-c	Structural backfill using Common Material available at site	Cum	269.94			
3	03-67-e	Structural Backfill using Common Material brought from outside	Cum	20.42			
4	06-07-a-03	RCC in roof slab, beam, column & other structural members, insitu or precast. (1:2:4)	Cum	38.47			
5	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	3.08			
6	06-47-c	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shpae - Position / Horizontal	Sqm	103.74			
7	06-47-d	Erection and removal of Form work with Plywood sheet finishing for RCC or Plain cement Concrete in any shpae - Position / Vertica	Sqm	217.98			
8	07-07-a-03	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:4	Cum	214.45			
9	07-08.	Add extra on item No. 07-07 for every 10 ft. additional height, or part thereof	Cum	16.47			
10	06-02.	Dry rammed shingle brick ballast or stone ballast 1.5" to 2" guage	Cum	242.00			
11	24-18-a-04	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 6" Nominal Pipe Size (NPS)	Meter	90.00			
12	24-18-a-05	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 8" Nominal Pipe Size (NPS)	Meter	22.50			
13	14-37-g	Supply and Fixing Plastic manhole cover with frame etc (Heavey Type) of approved quality complete: 24" (610 mm) dia	Each	75.00			
14	03-16-a	Rehandling of earthwork Lead upto a single throw of kassi, shovel, phaorah	Cum	290.36			
15	03-28-a	Mixing & moistening of earthwork to OMC in layers for compaction etc complete	Cum	290.36			
16	03-20-b	Transportation of earth all types for every 100m extra lead beyond 500m upto 1.5 km.	Cum	459.40			
Sub Total Amount							
Add 5% Area Factor							
Total Amount							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes - Lowera Maina

Bill No. 04: Construction of House Connection Chambers

S. No.	MRS 2025 B-I Item Codes	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	641.557			
2	03-67-c	Structural backfill using Common Material available at site	Cum	466.587			
3	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	64.421			
4	07-07-a-03	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:4	Cum	200.420			
5	11-08-b	Cement plaster 1:3 upto 20' height 1/2" thick	Sqm	1399.761			
6	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)	Cum	88.23			
7	14-37-c	Supply and Fixing cast iron (CI) manhole cover with frame etc (Heavey Type) of approved quality complete: 24" (610 mm) dia	Set	300.00			
8	13-08-a	Bitumen coating to plastered / cement concrete surface : 20 lbs. per 100 sft.	Sqm	890.76			
9	14-144-b	Supplying and Fixing UPVC soil waste and vent pipe class B : 4" dia	Meter	2400.00			
10	24-18-a-04	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 6" Nominal Pipe Size (NPS)	Meter	90.00			
11	03-16-a	Rehandling of earthwork Lead upto a single throw of kassi, shovel, phaorah	Cum	466.587			
12	03-28-a	Mixing & moistening of earthwork to OMC in layers for compaction etc complete	Cum	466.587			
13	03-20-b	Transportation of earth all types for every 100m extra lead beyond 500m upto 1.5 km.	Cum	174.970			
Sub Total Amount							
Add 5% Area Factor							
Total Amount							

KHYBER PAKHTUNKHWA RURAL INVESTMENT AND INSTITUTIONAL SUPPORT PROJECT (KP-RIISP)

**INTEGRATED WATER SUPPLY & SANITATION - REHABILITATION OF EXISTING SCHEMES,
TEHSIL MULA GORI, DISTRICT KHYBER**

Contract Package : RFB-KH-CW-R-03

BILL OF QUANTITIES

Sanitation Schemes

E&S COMPLIANCE COST

S.No.	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
1	Provision of an E&S Specialist (Bachelor's or Master's Degree) (16 years of education) in Environmental Sciences/Engineering or Social Sciences) with atleast 3 years of relevant work experience.	Months	2			
2	Provision of green cloth, 4 colour waste bins (240 Liters), signages, warning tape, necessary plastic and tarpulin sheet for covering of construction raw material on site and during transportation to the site	Each Site	2			
3	Handling of solid waste (storage, collection, transportation, treatment, utilization, processing, and final disposal of solid wastes)	Months	7			
4	DCP Fire extinguishers (6 kg) in case of fire (The material of the cylinder is steel. The extinguishing agent is mono ammonium phosphate and ammonium sulfate powder and the discharge time of the agent is 13 seconds). Including the refilling of used chemical and replacement of expired chemical.	Each Site	2			
5	Fire alarm (Signal Transmission: Wired Alarm, Working Principle: Manual Alarm Button)	Each Site	2			
6	Ear plugs (corded Reusable silicon Earplugs)	Each	91			
7	Safety Helmets (PE shell with vents Lining; material: Plastic Chin strap included; Adjust head size by ratchet knob)	Each	40			
8	Safety shoes (Renowned brand)	Each	20			
9	Protective goggles (Anti-fog, Anti scratch, Poly-carbonate Scratch and impact resistant, side protection sheet)	Each	20			
10	Gloves (made up of nylon, polyurethane with ironclad) and safety Vest	Each	20			
11	Dust Mask	Each	364			
12	First Aid Kit (pain killers, eyewash solution, antibiotic ointment, thermometer, plasters, sterile gauze dressings, sterile eye dressings, triangular bandages, crepe rolled bandages, safety pins, disposable sterile gloves and tweezers). Including the refilling of used contents and replacement of expired content.	Each Site	2			
13	Ground water Quality Testing (To be performed twice: Once before the start of construction, second during the construction period)	Each Site	4			
14	Noise level monitoring (Meter)	Each	1			
15	Capacity building and training on Health, Safety & Environment, E&S requirements for workers/staff of contractor and local community	Session	2			
16	Safety Sign Boards/Warning Signs for each construction site including signs for, Grievance Rederess Mechanism (GRM) details, Emergency Contact Numbers, PPE's requirements, First Aid / Fire Extinguishers placement, Emergency Exits, Procedure of use of Fire Extinguishers & other construction related safety / warning signs	Each	7			
Total Amount						