

**REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY
SCHEMES UNDER KP-RIISP**

**Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Of
Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajaur**

Contract Package : BJ-CW-R-04

BILL OF QUANTITIES

SUMMARY OF COST

Sr.No	Name of Scheme	Amount (Rs.)
1	DWSS Old Hospital Khar	
2	DWSS Civil Colony Khar	
3	DWSS Dabdabo Khar	
4	E&S Compliance	
	Total Cost (Rs.)	

**REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY
SCHEMES UNDER KP-RIISP**

**Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Of
Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajaur**

Contract Package : BJ-CW-R-04 (DWSS Old Hospital Khar)

BILL OF QUANTITIES

SUMMARY

Bill No.	Description	Amount (Rs.)
1	Civil Works Repair & Extension of Boundary Wall For PV Panels	
2	Distribution System Repair / Replacement & Construction of Valve Chamber	
3	Electrical Work for Chowkidar Room	
	Total Cost Rs.	

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Old Hospital Khar)

BILL OF QUANTITIES

Bill No.1. CIVIL WORKS FOR REPAIR & EXTENTION OF BOUNDARY WALL FOR PV PANELS

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (PKRs)
					In Figure	In Words	
1	11-09-b	Cement plaster 1:4, upto 20' height 1/2" thick	Sqm	56.88			
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)	Cum	0.16			
3	11-23-a-02	White washing: New surface : Two coats	Sqm	48.51			
4	25-46	Erection of Steel Girder 4"x8"x3/16" (Commercial size) including fitting in position	Mtr	3.66			
5	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.	Mtr	26.52			
6	06-02.	Dry rammed shingle brick ballast or stone ballast 1.5" to 2" guage (Solar Yard)	Cum	5.89			
7	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	9.85			
8	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	2.46			
9	07-04-a-02	1st class brick work in foundation and plinth in Cement, sand mortar 1:3	Cum	4.18			
10	07-07-a-03	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:4	Cum	6.00			
11	06-26-a-02	Damp proof course of cem. conc. 1:2:4 including bitumencoat, 1 layer polythene & 1 coat bitumen 2" thick	Sqm	9.14			
12	25-56	Providing and fixing steel gate of 16-18 SWG MS Sheet Gate with angle iron frame (2"x2"x3/16") with side window, lock, painting etc M.S. sheet covering including hold fast, with or without rollers and track arrangement including providing wicket shutter of required size with all accessories and locking arrangement complete	Sqm	7.43			
13	03-67-c	Structural backfill using Common Material available at site.	Cum	12.32			
14	24-13-b	Testing and developing of tube well with DNT unit 8" i/d and above complete as per specifications	Hour	9.00			
15	27-18-b	Extraction of Turbine/Submersible Pump & lowering/installation of the same after necessary repair (Above 200 ft)	Rft	220.00			
					Total Rs.		
					Add 8% Area Factor		
					G. Total Amount Rs.		
Non Schedule Items							
16	NSI	Providing, Furnishing, Analysing, recommendations and reports generation/submission (hard and soft copy) for existng tube wells complete in all respects as directed by the Engineer Incharge and as per below details: Video Logging/Recording video imaging of well (Through Borehole Inspection Camera) Max depth upto 200 m. Job includes (Data collection, visit to the site, preparing a complete report with proposals in view of structural and hydraulic issues. Note: Pump if installed, must be extracted one day before performing video logging.	Job	1			
							G.Total Amount Rs. (N.S.I)
							Grand Total Rs (S.I + N.S.I)

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Old Hospital Khar)

BILL OF QUANTITIES

Bill No.2. DISTRIBUTION SYSTEM REPAIR / REPLACEMENT

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (PKRs)
					In Figure	In Words	
1	03-51.	Excavation of trench in all kinds of soils except cutting in rock for pipelines upto 1.5m depth	Cum	1952.51			
2	07-30'	Supplying and filling sand under floor or plugging in wells (Under Pipe)	Cum	162.71			
3	03-67-c	Structural backfill using Common Material available at site	Cum	1627.09			
4	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			
5	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			
6	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			
7	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			
8	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 excavated material etc: complete in all respect of the following sizes.					
9	24-52-b	4" (100 mm) dia	Each	3.00			
		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.					
10	24-16-c-09	4" Nominal Pipe Size (NPS)	Mtr	35.40			
		Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE) Din-8074/Din-8075/ISO-4427 in trenches, complete in all respects except excavation.					
11	24-30-b-02	(25 mm dia) PN-10	Mtr	1093.44			
12	24-30-b-04	(40 mm dia) PN-10	Mtr	1262.29			
13	24-30-b-05	(50 mm dia) PN-10	Mtr	1579.31			
14	24-30-b-06	(63 mm dia) PN-10	Mtr	564.96			
15	24-30-b-09	(110 mm dia) PN-10	Mtr	170.82			
CONSTRUCTION OF VALVE CHAMBER							
16	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	6.34			
17	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	0.60			
18	07-04-a-03	1st class brick work in foundation and plinth in Cement, sand mortar 1:4	Cum	3.31			
19	11-09-b	Cement plaster 1:4 upto 20' height 1/2" thick	Sqm	14.50			
20	24-33-d	Supplying and fixing, cast iron manhole cover with frame, etc. (Heavey Type) of approved quality complete. 24" (600 mm) dia	Each	4.00			
21	06-07-a-03	RCC in roof slab, beam, column & other structural members, insitu or precast. (1:2:4)	Cum	0.48			
22	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	0.06			

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Old Hospital Khar)

BILL OF QUANTITIES

Bill No.2. DISTRIBUTION SYSTEM REPAIR / REPLACEMENT

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (PKRs)
					In Figure	In Words	
23	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	5.95			
Sub Total Rs.							
Add 8% Area Factor							
G. Total Amount Rs.							
Non Schedule Items							
24	NSI	Supply & Erection of Pressure Guage 100 mm Dia Vaccum Upto 350 psi Complete In all respects (Digital).	Each	1			
25	NSI	Supply & Erection of Flow Meter 100 mm Dia Complete In all respects (Digital).	Each	1			
26	NSI	Providing, fixing, commissioning & testing of Hypo Chlorinator (make Etatraon Italy (Digital) or equivalent) consisting of multifunction dosing pump having capacity of 5 Liter/hour and operating pressure of 5 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			
G.Total Amount Rs. (N.S.I)							
Grand Total Rs (S.I + N.S.I)							

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Old Hospital Khar)

BILL OF QUANTITIES

Bill No. 3. ELECTRICAL WORK FOR CHOWKIDAR ROOM

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (PKRs)
					In Figure	In Words	
Schedule Items							
1	15-50	Wiring of light/fan/call-bell point in 3/0.029" PVC insulated bare cable in PVC pipe recessed	Each	4			
2	15-46	Wiring of 2/3-pin 5-Amp plug point in 3/0.029" PVC insulated & sheathed cable on sahl wood	Each	2			
3	15-15	Supply and Erection wall/pole type bracket with double cover water tight reflector flexible wire & brass holder	Each	2			
4	15-11-a-03	Supply and erection iron/aluminium clad 500 volt main switch double pole: 60/65 Amp	Each	1			
5	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			
6	26-01-c-06	Supply and Erection of AC ENERGY EFFICIENT LED LIGHT BULBS (16-20 W)	No	4			
7	15-20-b	Supply and Erection 3 pin switch & plug combined recessed type : 10/15 Amp	Each	1			
8	15-79-c	PVC conduit for surface wiring (dura duct) 1.5" including all charges for nail screws etc complete	Mtr	35			
Sub Total Rs.							
Add 8% Area Factor							
G. Total Amount Rs.							

**REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEME
UNDER KP-RIISP**

**Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospita
Khar , Civil Colony Khar, Dabdabo Khar, District Bajaur**

Contract Package : BJ-CW-R-04 (DWSS Civil Colony Khar)

BILL OF QUANTITIES

SUMMARY

Bill No.	Description	Amount (Rs.)
1	Civil works for Repair of Pump Chamber, Boundary Wall & Solar Yard	
2	Distribution System Repair & Construction of Valve Chambers	
3	Electrical Work for Pump chamber	
	Total Cost Rs.	

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Civil Colony Khar)

BILL OF QUANTITIES

Bill No.1. CIVIL WORKS - FOR REPAIR OF PUMP CHAMBER, BOUNDARY WALL & SOLAR YARD

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (Rs)
					In Figure	In Words	
1	04-22-a	Dismantling 1st class tile roofing	Sqm	9.29			
2	11-07-b	Cement plaster 1:2, upto 20' height 1/2" thick	Sqm	46.47			
3	07-05-a-02	1st class brick work in ground floor Cement, sand mortar 1:3	Cum	0.96			
4	11-18-b	Cement pointing struck joints, on walls, upto 20' height : Ratio 1:3	Sqm	13.01			
5	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)	Cum	2.39			
6	09-.01	First class tile roofing including earth, mud plaster, gobri leeping, cement plaster etc complete	Sqm	9.29			
7	11-21-b-02	Distempering Old surface : Two coats	Sqm	46.47			
8	13-02-c-01	Painting old surfaces : Doors / windows any type First coat	Sqm	23.51			
9	13-02-c-02	Painting old surfaces : Doors / windows any type Each subsequent coat	Sqm	23.51			
10	11-23-b-02	White washing: Old surface : Two coats	Sqm	19.98			
11	11-23-a-02	White washing: New surface : Two coats	Sqm	139.41			
12	11-.29	Extra cost of labour & material for red oxide pigment in cement pointing to match bricks	Sqm	176.58			
13	24-18-a-01	UPVC Pressure Pipes Class B (6 Bar) except excavation. 3" Nominal Pipe Size (NPS)	Mtr	3.66			
14	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.	Mtr	76.20			
15	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	6.63			
16	06-02.	Dry rammed shingle brick ballast or stone ballast 1.5" to 2" guage (Solar Yard)	Cum	7.07			
17	10-49-f	Providing and Fixing Precast Concrete 3000 psi TUFF Tiles 50mm thick over bed of 2" thick sand (Path Ways)	Cum	86.99			
18	03-21-b	Dressing & levelling earth to designed sections Ordinary or hard soil upto cut or fill 6 inches	Cum	13.25			
19	24-13-b	Testing and developing of tube well with DNT unit 8" i/d and above complete as per specifications	Hour	9.00			
20	27-18-b	Extraction of Turbine/Submersible Pump & lowering/installation of the same after necessary repair (Above 200 ft)	Rft	200.00			
Total Rs.							
Add 8% Area Factor							
G. Total Amount Rs.							

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Civil Colony Khar)

BILL OF QUANTITIES

Bill No.1. CIVIL WORKS - FOR REPAIR OF PUMP CHAMBER, BOUNDARY WALL & SOLAR YARD

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (Rs)
					In Figure	In Words	
21	NSI	<p>Providing, Furnishing, Analysing, recommendations and reports generation/submission (hard and soft copy) for existing tube wells complete in all respects as directed by the Engineer Incharge and as per below details:</p> <p>Video Logging/Recording video imaging of well (Through Borehole Inspection Camera) Max depth upto 200 m. Job includes (Data collection, visit to the site, preparing a complete report with proposals in view of structural and hydraulic issues.</p> <p>Note: Pump if installed, must be extracted one day before performing video logging.</p>	Job	1			
Total Amount Rs. (N.S.I)							
Grand Total Rs (S.I + N.S.I)							

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Civil Colony Khar)

BILL OF QUANTITIES

Bill No.2. DISTRIBUTION SYSTEM REPAIR

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		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 excavated material etc: complete in all respect of the following sizes.					
4	24-52-b	4" (100 mm) dia	Each	4.00			
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-03	1" Nominal Pipe Size (NPS)	Mtr	30			
8	24-16-c-05	1.5" Nominal Pipe Size (NPS)	Mtr	13			
9	24-16-c-06	2" Nominal Pipe Size (NPS)	Mtr	53			
10	24-16-c-08	3" Nominal Pipe Size (NPS)	Mtr	15			
11	24-16-c-09	4" Nominal Pipe Size (NPS)	Mtr	32			
CONSTRUCTION OF VALVE CHAMBERS							
12	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	3.17			
13	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	0.30			
14	07-04-a-03	1st class brick work in foundation and plinth in Cement, sand mortar 1:4	Cum	1.66			
15	11-09-b	Cement plaster 1:4 upto 20' height 1/2" thick	Sqm	7.25			
16	24-33-d	Supplying and fixing, cast iron manhole cover with frame, etc. (Heavey Type) of approved quality complete. 24" (600 mm) dia.	Each	2.00			
17	06-07-a-03	RCC in roof slab, beam, column & other structural members, insitu or precast. (1:2:4)	Cum	0.24			
18	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	0.03			
19	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	2.97			
							Sub Total Rs.
							Add 8% Area Factor
							Total Amount Rs.

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Civil Colony Khar)

BILL OF QUANTITIES

Bill No.2. DISTRIBUTION SYSTEM REPAIR

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (Rs)	
					In Figure	In Words		
Non Schedule Items								
20	NSI	Supply & Erection of Pressure Guage 100 mm Dia Vaccum Upto 350 psi Complete In all respects (Digital).	Each	1				
21	NSI	Supply & Erection of Flow Meter 100 mm Dia Complete In all respects (Digital).	Each	1				
22	NSI	Providing, fixing, commissioning & testing of Hypo Chlorinator (make Etatraon Italy (Digital) or equivalent) consisting of multifunction dosing pump having capacity of 5 Liter/hour and operating pressure of 5 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				
							Total Amount Rs. (N.S.I)	
							Grand Total Rs (S.I + N.S.I)	

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Civil Colony Khar)

BILL OF QUANTITIES

Bill No.3. ELECTRICAL WORK FOR PUMP CHAMBER

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		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			
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			
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			
4	15-15	Supply and Erection wall/pole type bracket with double cover water tight reflector flexible wire & brass holder	Each	1			
5	15-11-a-02	Supply and erection iron/aluminium clad 500 volt main switch double pole: 30/35 Amp	Each	1			
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			
7	26-01-c-06	Supply and Erection of AC ENERGY EFFICIENT LED LIGHT BULBS (16-20 W)	No	2			
8	15-79-c	PVC conduit for surface wiring (dura duct) 1.5" including all charges for nail screws etc complete	Mtr	30			
Sub Total Rs.							
Add 8% Area Factor							
Total Amount Rs.							

**REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEME
UNDER KP-RIISP**

**Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital
Khar , Civil Colony Khar, Dabdabo Khar, District Bajaur**

Contract Package : BJ-CW-R-04 (DWSS Dabdabo Khar)

BILL OF QUANTITIES

SUMMARY

Bill No.	Description	Amount (Rs.)
1	Civil Work for Repair of Pump Chamber	
2	Distribution System Repair / Replacement , Construction of Valve Chamber	
3	Electrical Work for Pump Chamber	
4	Construction of Boundary Wall for PV Panels & Pump Chamber & Solar Yard	
	Total Cost Rs.	

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Dabdabo Khar)

BILL OF QUANTITIES

Bill No.1. CIVIL WORKS - FOR REPAIR OF PUMP CHAMBER

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (Rs)
					In Figure	In Words	
1	07-05-a-03	1st class brick work in ground floor Cement, sand mortar 1:4	Cum	0.46			
2	11-09-b	Cement plaster 1:4, upto 20' height 1/2" thick	Sqm	13.29			
3	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)	Cum	1.53			
4	09-.01	First class tile roofing including earth, mud plaster, gobi leeping, cement plaster etc complete	Sqm	9.29			
5	11-21-b-02	Distemping Old surface : Two coats	Sqm	46.47			
6	11-23-b-02	White washing: Old surface : Two coats	Sqm	17.47			
7	11-23-a-02	White washing: New surface : Two coats	Sqm	4.28			
8	11-.29	Extra cost of labour & material for red oxide pigment in cement pointing to match bricks	Sqm	18.59			
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)	Mtr	3.66			
10	03-67-d	Structural Backfill using Granular Material brought from outside	Cum	3.08			
11	13-02-c-01	Painting old surfaces : Doors / windows any type First coat	Sqm	7.53			
12	24-13-b	Testing and developing of tube well with DNT unit 8" i/d and above complete as per specifications	Hour	9.00			
13	27-18-b	Extraction of Turbine/Submersible Pump & lowering/installation of the same after necessary repair (Above 200 ft)	Rft	150.00			
Total Rs.							
Add 8% Area Factor							
Total Amount Rs.							
14	NSI	Providing, Furnishing, Analysing, recommendations and reports generation/submission (hard and soft copy) for existng tube wells complete in all respects as directed by the Engineer Incharge and as per below details: Video Logging/Recording video imaging of well (Through Borehole Inspection Camera) Max depth upto 200 m. Job includes (Data collection, visit to the site, preparing a complete report with proposals in view of structural and hydraulic issues. Note: Pump if installed, must be extracted one day before performing video logging.	Job	1			
Total Amount Rs. (N.S.I)							
Grand Total Rs (S.I + N.S.I)							

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Dabdabo Khar)

BILL OF QUANTITIES

Bill No.2: DISTRIBUTION SYSTEM REPAIR / REPLACEMENT

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (Rs)
					In Figure	In Words	
1	03-51.	Excavation of trench in all kinds of soils except cutting in rock for pipelines upto 1.5m depth	Cum	110.77			
2	07-30'	Supplying and filling sand under floor or plugging in wells (Under Pipe)	Cum	9.23			
3	03-67-c	Structural backfill using Common Material available at site	Cum	92.31			
4	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			
5	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			
6	24-22-b-01	Providing and Fixing of Sluice valve of BSS quality (BS 5163) for Gl, 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			
7	24-22-a-01	Providing and Fixing of Sluice valve of BSS quality (BS 5163) for Gl, 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			
8	27-51	Replacing of pressure gauge 0 to 500	No	1.00			
		Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE) Din-8074/Din-8075/ISO-4427 in trenches, complete in all respects except excavation.					
9	24-30-b-05	(50 mm dia) PN-10	Mtr	439.00			
CONSTRUCTION OF VALVE CHAMBER							
10	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	6.34			
11	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	0.60			
12	07-04-a-03	1st class brick work in foundation and plinth in Cement, sand mortar 1:4	Cum	3.31			
13	11-09-b	Cement plaster 1:4 upto 20' height 1/2" thick	Sqm	14.50			
14	24-33-d	Supplying and fixing, cast iron manhole cover with frame, etc. (Heavey Type) of approved quality complete. 24" (600 mm) dia	Each	4.00			
15	06-07-a-03	RCC in roof slab, beam, column & other structural members, insitu or precast. (1:2:4)	Cum	0.48			
16	06-08-b	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	0.06			
17	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	5.95			
Sub Total Rs.							
Add 8% Area Factor							
Total Amount Rs.							

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Dabdabo Khar)

BILL OF QUANTITIES

Bill No.2: DISTRIBUTION SYSTEM REPAIR / REPLACEMENT

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (Rs)
					In Figure	In Words	
Non Schedule Items							
18	NSI	Supply & Erection of Pressure Guage 100 mm Dia Vaccum Upto 350 psi Complete In all respects (Digital).	Each	1			
19	NSI	Supply & Erection of Flow Meter 100 mm Dia Complete In all respects (Digital).	Each	1			
20	NSI	Providing, fixing, commissioning & testing of Hypo Chlorinator (make Etatraon Italy (Digital) or equivalent) consisting of multifunction dosing pump having capacity of 5 Liter/hour and operating pressure of 5 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			
							Total Amount Rs. (N.S.I)
							Grand Total Rs (S.I + N.S.I)

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Dabdabo Khar)

BILL OF QUANTITIES

Bill No.3. ELECTRICAL WORK FOR PUMP CHAMBER

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (Rs)
					In Figure	In Words	
Schedule Items							
1	15-50	Wiring of light/fan/call-bell point in 3/0.029" PVC insulated bare cable in PVC pipe recessed	Each	4			
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			
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			
4	15-15	Supply and Erection wall/pole type bracket with double cover water tight reflector flexible wire & brass holder	Each	1			
5	15-11-a-02	Supply and erection iron/aluminium clad 500 volt main switch double pole: 30/35 Amp	Each	1			
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			
7	26-01-c-06	Supply and Erection of AC ENERGY EFFICIENT LED LIGHT BULBS (16-20 W)	No	4			
8	15-79-c	PVC conduit for surface wiring (dura duct) 1.5" including all charges for nail screws etc complete	Mtr	35			
Sub Total Rs.							
Add 8% Area Factor							
Total Amount Rs.							

REHABILITATION & SOLARIZATION OF EXISTING DRINKING WATER SUPPLY SCHEMES UNDER KP-RIISP

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar , Civil Colony Khar, Dabdabo Khar, District Bajau

Contract Package : BJ-CW-R-04 (DWSS Dabdabo Khar)

BILL OF QUANTITIES

Bill No. 4: Construction of Boundary Wall for PV Panels & Pump Chamber & Solar Yard

S.No	MRS 2025 B-I	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (Rs)
					In Figure	In Words	
1	03-25-d	Excavation in foundation of building, bridges etc complete : in shingle/gravel	Cum	29.45			
2	06-05-i	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	Cum	14.27			
3	07-04-a-03	1st class brick work in foundation and plinth in Cement, sand mortar 1:4	Cum	12.48			
4	07-07-a-03	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:4	Cum	18.06			
5	06-26-a-02	Damp proof course of cem. conc. 1:2:4 including bitumencat, 1 layer polythene & 1 coat bitumen 2" thick	Sqm	27.30			
6	11-18-b	Cement pointing struck joints, on walls, upto 20' height : Ratio 1:3	Sqm	144.98			
7	11-09-b	Cement plaster 1:4 upto 20' height 1/2" thick	Sqm	144.98			
8	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4) as in coping	Cum	0.47			
9	11-23-a-03	White washing: New surface :Three coats	Sqm	144.98			
10	11-.29	Extra cost of labour & material for red oxide pigment in cement pointing to match bricks	Sqm	144.98			
11	25-56	Providing and fixing steel gate of 16-18 SWG MS Sheet Gate with angle iron frame (2"x2"x3/16") with side window, lock, painting etc M.S. sheet covering including hold fast, with or without rollers and track arrangement including providing wicket shutter of required size with all accessories and locking arrangement complete	Sqm	7.43			
12	03-67-c	Structural backfill using Common Material available at site.	Cum	36.81			
13	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.	Mtr	79.244			
14	06-02.	Dry rammed shingle brick ballast or stone ballast 1.5" to 2" guage (Solar Yard)	Cum	11.55			
15	10-49-f	Providing and Fixing Precast Concrete 3000 psi TUFF Tiles 50mm thick over bed of 2" thick sand (Path Ways)	Sqm	90.71			
16	03-21-b	Dressing & levelling earth to designed sections Ordinary or hard soil upto cut or fill 6 inches	Cum	13.82			
Sub Total Rs.							
Add 8% Area Factor							
Total Amount Rs.							

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

Rehabilitation of Existing Non - Functional Drinking Water Supply Schemes Old Hospital Khar, Civil Colony Khar, Dabdabo Khar , District Bajau

Contract Package : BJ-CW-R-04

BILL OF QUANTITIES

E&S COMPLIANCE COST

Sr. No.	Description	Unit	Quantity	Unit Rate (PKRs)		Amount (Rs.)
				In Figure	In Words	
1	Provision of a fixed scaffolding platform for "Work at Height", including harness belt etc complete in all respects as per the OSHA guidelines or the direction of The Engineer	Nos	1			
2	Provision of green cloth, 4 colour waste bins (240 Liters), safety signages (including Grievance Redress Mechanism (GRM) details, Emergency contact numbers, PPEs requirements, First Aid / Fire Extinguisher placement, emergency exit etc), warning tape, necessary plastic and tarpulin sheet for covering of construction raw material on site and during transportation to the site	Each Site	3			
3	Handling of solid waste (storage, collection, transportation, utilization, and final disposal of solid wastes)	Each Site	3			
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	3			
5	Fire alarm (Signal Transmission: Wired Alarm, Working Principle: Manual Alarm Button)	Each Site	1			
6	Ear plugs (corded Reusable silicon Earplugs)	Each	70			
7	Safety Helmets (PE shell with vents Lining; material: Plastic Chin strap included; Adjust head size by ratchet knob)	Each	30			
8	Safety shoes (Renowned brand)	Each	15			
9	Protective goggles (Anti-fog, Anti scratch, Poly-carbonate Scratch and impact resistant, side protection sheet)	Each	15			
10	Gloves (made up of nylon, polyurethane with ironclad) and safety Vest	Each	15			
11	Dust Mask	Each	100			
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 the contents and replacement of expired content.	Each site	3			
13	Ground water Quality Testing (To be performed twice: Once before the start of construction, second during the construction period)	Each site	6			
14	Noise level monitoring (Meter)	Each	1			
15	Removal of Existing Trees upto any Girth, including removal of stumps & backfilling with sand & Plantation of (10 No.s) New Trees of the Type removed at each location and as per environmental compliance requirements	Job	15			
Total Amount						