

PUNJAB AAB E PAK AUTHORITY

OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (LAHORE & SAHIWAL DIVISION)

BILL OF QUANTITIES

GRAND SUMMARY

Sr No.	DESCRIPTION	AMOUNT Rs.
1	OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (LAHORE DIVISION)	
2	OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (SAHIWAL DIVISION)	
<i>Grand Total</i>		

PUNJAB AAB E PAK AUTHORITY

OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (LAHORE DIVISION)

BILL OF QUANTITIES

SUMMARY

Bill No.	DESCRIPTION	UNIT	QTY	Unit Rate	AMOUNT Rs.
Bill No. 1	O&M for RO PLANTS (2000 LPH)	No	34.0		
Bill No. 2	O&M for MF PLANTS (2000 LPH)	No	47.0		
Bill No.	DESCRIPTION	AMOUNT Rs.			
Bill No. 3	Civil Works for O&M of Plant Rooms				
Bill No. 4	O&M of Mechanical Works for RO / MF PLANTS (2000 LPH)				
GRAND TOTAL					

O&M for 1 No. RO PLANT (2000 LPH)**OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK
AUTHORITY - CENTRAL ZONE (LAHORE DIVISION)****BILL OF QUANTITIES****BILL NO 1 - 04 Months**

Sr. No.	Description	Unit	Reverse Osmosis - 2000 LPH		
			Qty.	Unit Cost	Total Price
1	Jumbo Filter PPF Micro 20" Prosity 1-5 Micron, Material High Pressure Plastic Melt Blown PE	No	4		
2	Plant Operator, 1 Nos.	Man Months	4		
3	Water Testing (From ISO Approved Lab)	Quarterly	1		
4	Visit of Technical Staff	Quarterly	1		
5	Antiscalent Chemical (DOSING) Dosing Rate: 5 Ppm	Kg	10		
6	Chemicals for Cleaning (CIP), Disinfection, Tank Cleaning, Site Disinfection and other cleaning material etc Acidic/Alkaline	Kg	6		
TOTAL COST					

O&M for 1 No. MF PLANT (2000 LPH)**OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (LAHORE DIVISION)****BILL OF QUANTITIES****BILL NO 2 - 04 Months**

Sr. No.	Description	Unit	Multimedia Filtration - 2000 LPH		
			Qty.	Unit Cost	Total Price
1	Plant Operator, 1 Nos.	Man Months	4		
2	Water Testing (From ISO Approved Lab)	Quarterly	1		
3	Visit of Technical Staff	Quarterly	1		
4	Sodium Hypochlorite	Kg	6		
TOTAL COST					

Civil Works for O&M of Plant Rooms

OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (LAHORE DIVISION)

BILL OF QUANTITIES

BILL NO 3 - 04 Months

Repair & Maintenance of civil work including but not limited to repair of plaster & tiles, repainting of doors, window & grills, distemping, drainage etc. complete in all respects to the entire satisfaction of the Engineer Incharge

SCHEDULE ITEMS BASED ON MRS, 2nd BI-ANNUAL PERIOD (1st July, 2024 TO 31st Dec, 2024) LAHORE

Sr. No.	MRS.Ref	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
					(In Rupees)	
1	Chapter. 11 Item No. 9 b,	Cement plaster 1:4 upto 20 ft. height (b) 1/2 inch thick	320	Sft	47.17	15,094.24
2	Chapter. 6 Item No. 5.f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate:) Ratio 1: 2: 4	200	Cft	505.89	101,178.00
3	Chapter. 4 Item No. 19(a)	Dismantling of plain cement concrete (1:4:8)	200	Cft	82.76	16,552.80
4	Chapter. 13 Item No. 4(c)	Painting old surfaces Painting doors and windows, any type: First coat & each subsequent coat	816	Sft	26.94	21,986.30
5	Chapter. 11 Item No. 23 (b ii)	Distemping on old surface. two Coats	8640	Sft	8.93	77,185.44
6	Chapter. 11 Item No. 31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	4320	Sft	11.51	49,701.60
7	Chapter. 10 Item No. 46 A(i)	Laying floor of approved white glazed tile ¼" (6 mm) thick in white cement 1:2 over ¾" (20mm) thick cement mortar 1:2, complete.	384	Sft	371.40	142,617.60
CIVIL ROOM					Total :-	424,315.98
_____ % Above / Below:						
Total Amount:						

O&M of Mechanical Works for RO / MF PLANTS (2000 LPH)

OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (LAHORE DIVISION)

BILL OF QUANTITIES

BILL NO 4 - 04 Months

Sr. No.	Description	Unit	BILL NO 4 - 04 Months		
			Qty.	Unit Cost	Total Price
1	Repair & maintenance of RO / MF Feed water pump 4000 LPH, for 2000 LPH RO / MF Plant, complete in all respect	No	12		
2	Repair of 3 inch submersible pump	No	12		
3	Repairing, Cleaning & Washing existing bore holes / Injection Well by using air compressor or any other equipment	No	12		
TOTAL COST					

PUNJAB AAB E PAK AUTHORITY

OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (SAHIWAL DIVISION)

BILL OF QUANTITIES

SUMMARY

Bill No.	DESCRIPTION	UNIT	QTY	Unit Rate	AMOUNT Rs.
Bill No. 1	O&M for RO PLANTS (2000 LPH)	No	34.0		
Bill No. 2	O&M for MF PLANTS (2000 LPH)	No	18.0		
Bill No.	DESCRIPTION	AMOUNT Rs.			
Bill No. 3	Civil Works for O&M of Plant Rooms				
Bill No. 4	O&M of Mechanical Works for RO / MF PLANTS (2000 LPH)				
GRAND TOTAL					

O&M for 1 No. RO PLANT (2000 LPH)**OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK
AUTHORITY - CENTRAL ZONE (SAHIWAL DIVISION)****BILL OF QUANTITIES****BILL NO 1 - 04 Months**

Sr. No.	Description	Unit	Reverse Osmosis - 2000 LPH		
			Qty.	Unit Cost	Total Price
1	Jumbo Filter PPF Micro 20" Prosity 1-5 Micron, Material High Pressure Plastic Melt Blown PE	No	4		
2	Plant Operator, 1 Nos.	Man Months	4		
3	Water Testing (From ISO Approved Lab)	Quarterly	1		
4	Visit of Technical Staff	Quarterly	1		
5	Antiscalent Chemical (DOSING) Dosing Rate: 5 Ppm	Kg	10		
6	Chemicals for Cleaning (CIP), Disinfection, Tank Cleaning, Site Disinfection and other cleaning material etc Acidic/Alkaline	Kg	6		
TOTAL COST					

O&M for 1 No. MF PLANT (2000 LPH)**OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (SAHIWAL DIVISION)****BILL OF QUANTITIES****BILL NO 2 - 04 Months**

Sr. No.	Description	Unit	Media Filtration - 2000 LPH		
			Qty.	Unit Cost	Total Price
1	Plant Operator, 1 Nos.	Man Months	4		
2	Water Testing (From ISO Approved Lab)	Quarterly	1		
3	Visit of Technical Staff	Quarterly	1		
4	Sodium Hypochlorite	Kg	6		
TOTAL COST					

Civil Works for O&M of 1 No. Plant Room						
OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (SAHIWAL DIVISION)						
BILL OF QUANTITIES						
BILL NO 3 - 04 Months						
<i>Repair & Maintenance of civil work including but not limited to repair of plaster & tiles, repainting of doors, window & grills, distemping, drainage etc. complete in all respects to the entire satisfaction of the Engineer Incharge</i>						
SCHEDULE ITEMS BASED ON MRS, 2nd BI-ANNUAL PERIOD (1st July, 2024 TO 31st Dec, 2024) SAHIWAL						
Sr. No.	MRS.Ref	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
					(In Rupees)	
1	Chapter. 11 Item No. 9 b,	Cement plaster 1:4 upto 20 ft. height (b) 1/2 inch thick	200	Sft	46.27	9,254.40
2	Chapter. 6 Item No. 5.f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):) Ratio 1: 2: 4	125	Cft	499.34	62,417.88
3	Chapter. 4 Item No. 19(a)	Dismantling of plain cement concrete (1:4:8)	125	Cft	82.76	10,345.50
4	Chapter. 13 Item No. 4(c)	Painting old surfaces Painting doors and windows, any type: First coat & each subsequent coat	510	Sft	30.684	15,648.84
5	Chapter. 11 Item No. 23 (b ii)	Distemping on old surface. two Coats	5400	Sft	8.82	47,646.90
6	Chapter. 11 Item No. 31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	2700	Sft	11.34	30,618.00
7	Chapter. 10 Item No. 46 A(i)	Laying floor of approved white glazed tile ¼" (6 mm) thick in white cement 1:2 over ¾" (20mm) thick cement mortar 1:2, complete.	240	Sft	369.65	88,716.00
CIVIL ROOM					Total :-	264,647.52
_____ % Above / Below:						
Total Amount:						

O&M of Mechanical Works for 1 No. RO / MF PLANT (2000 LPH)

OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - CENTRAL ZONE (SAHIWAL DIVISION)

BILL OF QUANTITIES

BILL NO 4 - 04 Months

Sr. No.	Description	Unit	BILL NO 4 - 04 Months		
			Qty.	Unit Cost	Total Price
1	Repair & maintenance of RO / MF Feed water pump 4000 LPH, for 2000 LPH RO / MF Plant, complete in all respect	No	8		
2	Repair of 3 inch submersible pump	No	8		
3	Repairing, Cleaning & Washing existing bore holes / Injection Well by using air compressor or any other equipment	No	8		
TOTAL COST					