

**PUNJAB AAB E PAK AUTHORITY**

**OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - NORTH ZONE (GUJRWALA & SARGODHA DIVISION)**

**BILL OF QUANTITIES**

**GRAND SUMMARY**

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

**PUNJAB AAB E PAK AUTHORITY**

**OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - NORTH ZONE (GUJRANWALA DIVISION)**

**BILL OF QUANTITIES**

**SUMMARY**

<b>Bill No.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>Unit Rate</b>	<b>AMOUNT Rs.</b>
Bill No. 1	O&M for RO PLANTS (2000 LPH)	No	1.0		
Bill No. 2	O&M for MF PLANTS (2000 LPH)	No	9.0		
<b>Bill No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT Rs.</b>			
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)				
<b>GRAND TOTAL</b>					

**O&M for 1 No. RO PLANT (2000 LPH)****OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK  
AUTHORITY - NORTH ZONE (GUJRANWALA 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		
<b>TOTAL COST</b>					

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

Sr. No.	Description	Unit	Multimedia Filtration - 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	Sodium Hypochlorite	Kg	6		
<b>TOTAL COST</b>					

Civil Works for O&M of Plant Rooms						
OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - NORTH ZONE (GUJRANWALA DIVISION)						
BILL OF QUANTITIES						
BILL NO 3 - 04 Months						
<i>Repair &amp; Maintenance of civil work including but not limited to repair of plaster &amp; tiles, repainting of doors, window &amp; grills, distempering, 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) Gujranwala						
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	40	Sft	46.69	1,867.78
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	25	Cft	490.84	12,271.00
3	Chapter. 4 Item No. 19(a)	Dismantling of plain cement concrete (1:4:8)	25	Cft	82.76	2,069.10
4	Chapter. 13 Item No. 4(c)	Painting old surfaces Painting doors and windows, any type: First coat & each subsequent coat	102	Sft	26.94	2,747.83
5	Chapter. 11 Item No. 23 (b ii)	Distempering on old surface. two Coats	1080	Sft	8.93	9,648.18
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.	540	Sft	11.51	6,212.70
7	Chapter. 10 Item No. 46 A(i)	Laying floor of approved white glazed tile ¾" (6 mm) thick in white cement 1:2 over ¾" (20mm) thick cement mortar 1:2, complete.	48	Sft	370.70	17,793.60
<b>CIVIL ROOM</b>					<b>Total :-</b>	<b>52,610.19</b>
					_____ % Above / Below:	
					<b>Total Amount:</b>	

**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 - NORTH ZONE (GUJRANWALA 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	2		
2	Repair of 3 inch submersible pump	No	2		
3	Repairing, Cleaning & Washing existing bore holes / Injection Well by using air compressor or any other equipment	No	2		
<b>TOTAL COST</b>					

**PUNJAB AAB E PAK AUTHORITY**

**OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - NORTH ZONE (SARGODHA DIVISION)**

**BILL OF QUANTITIES**

**SUMMARY**

<b>Bill No.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>Unit Rate</b>	<b>AMOUNT Rs.</b>
Bill No. 1	O&M for RO PLANTS (2000 LPH)	No	33.0		
Bill No. 2	O&M for MF PLANTS (2000 LPH)	No	7.0		
<b>Bill No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT Rs.</b>			
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)				
<b>GRAND TOTAL</b>					

**O&M for 1 No. RO PLANT (2000 LPH)****OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK  
AUTHORITY - NORTH ZONE (SARGODHA 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		
<b>TOTAL COST</b>					



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

Sr. No.	Description	Unit	Multimedia Filtration - 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	Sodium Hypochlorite	Kg	6		
<b>TOTAL COST</b>					

Civil Works for O&M of Plant Rooms						
OPERATIONS AND MAINTENANCE OF WATER FILTRATION PLANTS COMMISSIONED BY PUNJAB AAB-E-PAK AUTHORITY - NORTH ZONE (SARGODHA DIVISION)						
BILL OF QUANTITIES						
BILL NO 3 - 04 Months						
<i>Repair &amp; Maintenance of civil work including but not limited to repair of plaster &amp; tiles, repainting of doors, window &amp; grills, distempering, 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) Sargodha						
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	160	Sft	46.69	7,470.40
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	100	Cft	500.08	50,008.00
3	Chapter. 4 Item No. 19(a)	Dismantling of plain cement concrete (1:4:8)	100	Cft	82.76	8,276.00
4	Chapter. 13 Item No. 4(c)	Painting old surfaces Painting doors and windows, any type: First coat & each subsequent coat	408	Sft	26.94	10,991.32
5	Chapter. 11 Item No. 23 (b ii)	Distempering on old surface. two Coats	4320	Sft	8.93	38,592.72
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.	2160	Sft	11.51	24,850.80
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.	192	Sft	370.70	71,174.40
<b>CIVIL ROOM</b>					<b>Total :-</b>	<b>211,363.64</b>
_____ % Above / Below:						
<b>Total Amount:</b>						

**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 - NORTH ZONE (SARGODHA 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	6		
2	Repair of 3 inch submersible pump	No	6		
3	Repairing, Cleaning & Washing existing bore holes / Injection Well by using air compressor or any other equipment	No	6		
<b>TOTAL COST</b>					