

O&M for RO PLANT (500 LPH)

**FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS -
SOUTH ZONE (DG KHAN DIVISION)**

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Reverse Osmosis - 500 LPH		
			Qty.	Unit Cost	Total Price
1	Jumbo Filter PPF Micro 20" Prosity 1-5 Micron, Material High Pressure Plastic Melt Blown PE	No	12		
2	Plant Operator, 1 Nos.	Man Months	4		
3	Water Testing (From ISO Approved Lab)	Quaterly	4		
4	Antiscalent Chemical (DOSING) Dosing Rate: 5 Ppm	Kg	7.2		
5	Chemicals for Cleaning (CIP), Disinfection, Tank Cleaning, Site Disinfection and other cleaning material etc Acidic/Alkaline	Kg	18		
TOTAL COST					

Note: The above rate will be locked by the Authority for 12 months of O&M per plant. If the duration of O&M for any such plant is less than 12 months, then payment will made on proportionate basis as per the locked rate, in accordance with the framework modality stipulated in the Bidding Documents.

O&M for UF PLANT (500 LPH)

**FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS -
SOUTH ZONE (DG KHAN DIVISION)**

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Ultra Filtration - 500 LPH		
			Qty.	Unit Cost	Total Price
1	Plant Operator, 1 Nos.	Man Months	4		
2	Water Testing (From ISO Approved Lab)	Quaterly	4		
3	Chemicals for Cleaning (CIP), Disinfection, Tank Cleaning, Site Disinfection and other cleaning material etc Acidic/Alkaline	Kg	18		
TOTAL COST					

Note: The above rate will be locked by the Authority for 12 months of O&M per plant. If the duration of O&M for any such plant is less than 12 months, then payment will made on proportionate basis as per the locked rate, in accordance with the framework modality stipulated in the Bidding Documents.

O&M for RO PLANT (1000 LPH)

**FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS -
SOUTH ZONE (DG KHAN DIVISION)**

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Reverse Osmosis - 1000 LPH		
			Qty.	Unit Cost	Total Price
1	Jumbo Filter PPF Micro 20" Prosity 1-5 Micron, Material High Pressure Plastic Melt Blown PE	No	12		
2	Plant Operator, 1 Nos.	Man Months	4		
3	Water Testing (From ISO Approved Lab)	Quaterly	4		
4	Antiscalent Chemical (DOSING) Dosing Rate: 5 Ppm	Kg	14		
5	Chemicals for Cleaning (CIP), Disinfection, Tank Cleaning, Site Disinfection and other cleaning material etc Acidic/Alkaline	Kg	18		
TOTAL COST					

Note: The above rate will be locked by the Authority for 12 months of O&M per plant. If the duration of O&M for any such plant is less than 12 months, then payment will made on proportionate basis as per the locked rate, in accordance with the framework modality stipulated in the Bidding Documents.

O&M for UF PLANT (1000 LPH)

**FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS -
SOUTH ZONE (DG KHAN DIVISION)**

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Ultra Filtration - 1000 LPH		
			Qty.	Unit Cost	Total Price
1	Plant Operator, 1 Nos.	Man Months	4		
2	Water Testing (From ISO Approved Lab)	Quaterly	4		
3	Chemicals for Cleaning (CIP), Disinfection, Tank Cleaning, Site Disinfection and other cleaning material etc Acidic/Alkaline	Kg	18		
TOTAL COST					

Note: The above rate will be locked by the Authority for 12 months of O&M per plant. If the duration of O&M for any such plant is less than 12 months, then payment will made on proportionate basis as per the locked rate, in accordance with the framework modality stipulated in the Bidding Documents.

O&M for RO PLANT (2000 LPH)

**FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS -
SOUTH ZONE (DG KHAN DIVISION)**

BILL OF QUANTITIES

12 Months O&M

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	12		
2	Plant Operator, 1 Nos.	Man Months	4		
3	Water Testing (From ISO Approved Lab)	Quaterly	4		
4	Antiscalent Chemical (DOSING) Dosing Rate: 5 Ppm	Kg	29		
5	Chemicals for Cleaning (CIP), Disinfection, Tank Cleaning, Site Disinfection and other cleaning material etc Acidic/Alkaline	Kg	18		
TOTAL COST					

Note: The above rate will be locked by the Authority for 12 months of O&M per plant. If the duration of O&M for any such plant is less than 12 months, then payment will made on proportionate basis as per the locked rate, in accordance with the framework modality stipulated in the Bidding Documents.

O&M for MF PLANT (2000 LPH)

**FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS -
SOUTH ZONE (DG KHAN DIVISION)**

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Media 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	12		
2	Plant Operator, 1 Nos.	Man Months	4		
3	Water Testing (From ISO Approved Lab)	Quaterly	4		
4	Sodium Hypochlorite	Kg	18		
TOTAL COST					

Note: The above rate will be locked by the Authority for 12 months of O&M per plant. If the duration of O&M for any such plant is less than 12 months, then payment will made on proportionate basis as per the locked rate, in accordance with the framework modality stipulated in the Bidding Documents.

O&M for UF PLANT (2000 LPH)

**FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS -
SOUTH ZONE (DG KHAN DIVISION)**

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Ultra Filtration - 2000 LPH		
			Qty.	Unit Cost	Total Price
1	Plant Operator, 1 Nos.	Man Months	4		
2	Water Testing (From ISO Approved Lab)	Quaterly	4		
3	Chemicals for Cleaning (CIP), Disinfection, Tank Cleaning, Site Disinfection and other cleaning material etc Acidic/Alkaline	Kg	18		
TOTAL COST					

Note: The above rate will be locked by the Authority for 12 months of O&M per plant. If the duration of O&M for any such plant is less than 12 months, then payment will made on proportionate basis as per the locked rate, in accordance with the framework modality stipulated in the Bidding Documents.

O&M for RO PLANT (4000 LPH)

**FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS -
SOUTH ZONE (DG KHAN DIVISION)**

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Reverse Osmosis - 4000 LPH		
			Qty.	Unit Cost	Total Price
1	Jumbo Filter PPF Micro 20" Prosyte 1-5 Micron, Material High Pressure Plastic Melt Blown PE	No	12		
2	Plant Operator, 1 Nos.	Man Months	4		
3	Water Testing (From ISO Approved Lab)	Quaterly	4		
4	Antiscalent Chemical (DOSING) Dosing Rate: 5 Ppm	Kg	58		
5	Chemicals for Cleaning (CIP), Disinfection, Tank Cleaning, Site Disinfection and other cleaning material etc Acidic/Alkaline	Kg	18		
TOTAL COST					

Note: The above rate will be locked by the Authority for 12 months of O&M per plant. If the duration of O&M for any such plant is less than 12 months, then payment will be made on proportionate basis as per the locked rate, in accordance with the framework modality stipulated in the Bidding Documents.

Detail of Civil Work for O&M of Plants Room						
FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS - SOUTH ZONE (DG KHAN DIVISION)						
BILL OF QUANTITIES						
12 Months O&M						
Repair & Maintennace of civil work including but not limited to repair of plaster & tiles, repainting of doors, window & grills, distempering, drainage etc. complete in all respects to the entire satisfaction of the Engineer Incharge						
SCHEDULE ITEMS BASED ON MRS, 1st BI-ANNUAL PERIOD (1st January, 2025 TO 30th June, 2025) DG KHAN						
Sr. No.	MRS.Ref	DESCRIPTION	QTY	UNIT	RATE (In Rupees)	AMOUNT
1	11-9-b	Cement plaster 1:4 upto 20 ft. height (b) 1/2" inch thick	40	Sft		
2	6 -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		
3	4 -19-a	Dismantling of plain cement concrete (1:4:8)	25	Cft		
4	13 -4-c -i	Painting old surfaces Painting doors and windows, any type: First coat & each subsequent coat	102	Sft		
5	11-23 -b ii	Distempering on old surface. two Coats	1080	S.ft.		
6	11 .31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	540	Sft		
7	10 -46 -A(i)	Laying floor of approved white glazed tile $\frac{1}{4}$ " (6 mm) thick in white cement 1:2 over $\frac{3}{4}$ " (20mm) thick cement mortar 1:2, complete.	48	P.sft		
CIVIL ROOM						Total :-
Total Cost of Civil Work						

Detail O&M of Mechanical Work for RO / MF / UF PLANT (500 LPH)

FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS - SOUTH ZONE (DG KHAN DIVISION)

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Complete Mechanical Works	
			Qty.	Total Price
1	Operation and Maintenance of Mechanical Works for RO/MF/UF Plants that may include but not limited to repair & maintenance of feed pumps, high pressure pumps, piping & fittings and the auxiliary works required for keeping the plant(s) functional, complete in all aspects as per satisfaction of engineer incharge.	Job	1	
TOTAL COST				

Detail O&M of Mechanical Work for RO / MF / UF PLANT (1000 LPH)

FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS - SOUTH ZONE (DG KHAN DIVISION)

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Complete Mechanical Works	
			Qty.	Total Price
1	Operation and Maintenance of Mechanical Works for RO/MF/UF Plants that may include but not limited to repair & maintenance of feed pumps, high pressure pumps, piping & fittings and the auxiliary works required for keeping the plant(s) functional, complete in all aspects as per satisfaction of engineer incharge.	Job	1	
TOTAL COST				

Detail O&M of Mechanical Work for RO / MF / UF PLANT (2000 LPH)

FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS - SOUTH ZONE (DG KHAN DIVISION)

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Complete Mechanical Works	
			Qty.	Total Price
1	Operation and Maintenance of Mechanical Works for RO/MF/UF Plants that may include but not limited to repair & maintenance of feed pumps, high pressure pumps, piping & fittings and the auxiliary works required for keeping the plant(s) functional, complete in all aspects as per satisfaction of engineer incharge.	Job	1	
TOTAL COST				

Detail O&M of Mechanical Work for RO / MF / UF PLANT (4000 LPH)

FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS - SOUTH ZONE (DG KHAN DIVISION)

BILL OF QUANTITIES

12 Months O&M

Sr. No.	Description	Unit	Complete Mechanical Works	
			Qty.	Total Price
1	Operation and Maintenance of Mechanical Works for RO/MF/UF Plants that may include but not limited to repair & maintenance of feed pumps, high pressure pumps, piping & fittings and the auxiliary works required for keeping the plant(s) functional, complete in all aspects as per satisfaction of engineer incharge.	Job	1	
TOTAL COST				

PUNJAB SAAF PANI AUTHORITY					
FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS - SOUTH ZONE (DG KHAN DIVISION)					
BILL OF QUANTITIES					
GENERAL ABSTRACT					
Sr No.	DESCRIPTION	UNIT	QTY	Unit Rate	AMOUNT Rs.
1	12 Months O&M for RO PLANT (500 LPH)	No	4.0		
2	12 Months O&M for UF PLANT (500 LPH)	No	2.0		
3	12 Months O&M for RO PLANT (1000 LPH)	No	53.0		
4	12 Months O&M for UF PLANT (1000 LPH)	No	23.0		
5	12 Months O&M for RO PLANT (2000 LPH)	No	216.0		
6	12 Months O&M for MF PLANT (2000 LPH)	No	20.0		
7	12 Months O&M for UF PLANT (2000 LPH)	No	55.0		
8	12 Months O&M for RO PLANT (4000 LPH)	No	15.0		
9	Detail of Civil Work for O&M of Plants Room	No	40.0		
10	Detail O&M of Mechanical Work for RO / MF / UF PLANT (500 LPH)	No	1.0		
11	Detail O&M of Mechanical Work for RO / MF / UF PLANT (1000 LPH)	No	8.0		
12	Detail O&M of Mechanical Work for RO / MF / UF PLANT (2000 LPH)	No	29.0		
13	Detail O&M of Mechanical Work for RO / MF / UF PLANT (4000 LPH)	No	1.0		
GRAND TOTAL					

Note: The above amount is tentative cost based on the projection that all 388 plants WFPs will be operated & maintained for full 12 months by the Contractor. The O&M duration for any plant will start as per the framework modality stipulated in Bidding Documents & payment will be made accordingly on a proportionate basis.

PUNJAB SAAF PANI AUTHORITY

**FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS -
SOUTH ZONE (DG KHAN DIVISION)**

BILL OF QUANTITIES

GRAND SUMMARY

Sr No.	DESCRIPTION	AMOUNT Rs.
1	FRAMEWORK CONTRACT FOR OPERATIONS AND MAINTENANCE OF 388 NO. WATER FILTRATION PLANTS - SOUTH ZONE (DG KHAN DIVISION)	
	<i>TOTAL COST</i>	
	<i>Add 16% PRA</i>	
	<i>Grand Total</i>	

Note: The above amount is tentative cost based on the projection that all 388 plants WFPs will be operated & maintained for full 12 months by the Contractor. The O&M duration for any plant will start as per the framework modality stipulated in Bidding Documents & payment will be made accordingly on a proportionate basis.