

Kepada Yth.
Bpk. Sindu
Di tempat

Bekasi, 22 Oktober 2024
QUOTATION NUMBER :
014A/ATO/BWRO/5/XI/2024

LAMPIRAN RENCANA ANGGARAN BIAYA (RAB)
UNIT INSTALASI PENGOLAHAN AIR BERSIH (SISTEM BW-RO) KAPASITAS 5m3 Per Jam

No.	RAW MATERIAL AND JOB DESCRIPTION	QUAN		QTY PRICE	TOTAL PRICE
		QTY	VOL		
A	PRE TREATMENT DAN RO SYSTEM				
1	Raw Water Pump Type CHL	unit	1	12,500,000	12,500,000
	Type : Centrifugal Power : 2,2 KW /380 V/ 50 HZ Flow 15m3/jam Head Max: 40M				
2	Raw Water Tank Exel / Setara	unit	2	6,900,000	13,800,000
	Kapasitas 2000ltr Material : SS304				
3	Sand Filter Tank	unit	1	35,300,000	35,300,000
	Type : Cylinder Vertical Material : PRF Diameter : 30 X 72 Inch Valve Operation : Tri Way Valve				
4	Activated Carbon Filter Tank	unit	1	45,700,000	45,700,000
	Type : Cylinder Vertical Material : FRP Diameter : 30 X 72 Inch Valve Operation : Tri Way Valve				
4	Softener Filter Tank	unit	1	75,700,000	75,700,000
	Type : Cylinder Vertical Material : FRP Diameter : 30 X 72 Inch Valve Operation : Tri Way Valve				
5	Multi Catridge Micro Filtrasi Merk Nano	unit	1	4,700,000	4,700,000
	Type : Cylinder vertical Lenght Catridge : 40 Inch Maximum Operating Pressure : 7 bar at 65oC Number Of Cartridge : 5ea Material: PE In/Outlet: 2.0 inch				
6	Tanki Pilter	unit	2	6,900,000	13,800,000
	Kapasitas 2000ltr Material : SS304				
7	Feeder Pump CNP Pump	unit	3	18,500,000	55,500,000
	Type : Centrifugal Power : 0,75 KW /1 HP/220 V/ 50 HZ Flow 3m3/jam Head Max: 40 M				
8	Multi Catridge Micro Filtrasi Merk Nano	unit	2	16,700,000	33,400,000
	Type : Cylinder vertical Lenght Catridge : 20 Inch Maximum Operating Pressure : 7 bar at 65oC Number Of Cartridge : 5ea Material: PE In/Outlet: 2.0 inch				

9	BW-RO Booster Pump CNP	unit	1	28,000,000	28,000,000
	Type : Vertical Multi Stage Power :7,5KW /10 HP/380 V/ 50 HZ Capacity Max : 28 M3/Hour Flow Rate: 8 M3/Hour Head Max: 166 M				
10	BW-RO Membrane Merk Filmtec / Setara	unit	6	7,500,000	45,000,000
	Model: BW4040 Dimension: 80 inc x 40 inc Applied Pressure: 150-250 Psi Max Pressure :900 Psi Nominal Capacity: 2000 GPD Stabilized Salt Rejection : 99,5 Maks Operating Temp: 77 Maks Feed Flow Rate: 77°F (25°C) Material: : TFC Polyamide				
11	Housing Membrane Merk Hypro	unit	3	9,500,000	28,500,000
	Material:: Hard Fiberglass Outer Shell Max Pressure : 400 psi Operating Pressure :200-300 psi Quantity Moduls Membrane : 2ae				
12	Dossing Pump Anti Scalan	unit	1	4,500,000	4,500,000
	Type: Metering Pump Capacity Max: 4,5 liters/hour Input power : 120 watt/220 volt				
13	Chemical Tank Merk	pcs	1	500,000	500,000
	Volume : 100 liter Type : Cylinder vertical Material: PE				
14	Tanki Hasil RO	unit	2	6,900,000	13,800,000
	Kapasitas 2000ltr Material : SS304				
B UNIT CIP (Cleaning In Place)Menggunakan pompa feeder					
1	Tangki CIP	pcs	1	1,900,000	1,900,000
	Volume : 100 liter Type : Cylinder vertical Material: PE Discharge : 1 inch				
C ACCESORIES					
1	Pemipaan unit RO Stainless 304	ls	1	20,000,000	20,000,000
2	Piping pipa PVC Rucika	ls	1	5,000,000	12,000,000
2	Flow Meter Riject	pcs	1	1,750,000	1,750,000
3	Flow Meter Product	pcs	1	1,750,000	1,750,000
4	Pressure switch 0-10 bar	pcs	1	2,650,000	2,650,000
5	Nedle Valve 1.5 inch SUS 304	pcs	1	850,000	850,000
6	Pannel Pressure Gauge max 400 psi (40 kg/cm2)	pcs	1	350,000	350,000
7	Pannel Pressure Gauge max 100 psi (10 kg/cm2)	pcs	1	350,000	350,000
8	Selenoid Valve 1,5"	pcs	1	2,500,000	2,500,000
9	Motorice Valve 1,5"	pcs	1	4,500,000	4,500,000
10	Frame&Shaft : Hollow SUS 304	Unit	1	30,000,000	30,000,000
11	Electric Control Panel System Auto & Manual	Unit	1	20,000,000	20,000,000
12	Installation Work	Ls	1	55,000,000	55,000,000

Note :

- * Harga franco Jakarta
- * Lama pengerjaan 15 Hari terhitung sejak kontrak di tanda tangani dan uang muka di terima
- * Garansi mesin 6 Bulan

System Pembayaran

- * Dp 50 %
- * 40 % Pada saat Barang siap di kirim.
- * 10 % Pada saat pekerjaan selesai.

TOTAL (A+B+C)	564,300,000
PPn 11%	62,073,000
Total Harga	626,373,000

Hormat Kami
PT Air Teknologi Osmosis
NUGROHO