

operational cos of 500 lph r.o.plant

considering 12 hrs operation daily: Product water output/day=6000litrs

1 electrical power	4HP	Rs.4/-unit	144
2 antiscalant	30 gms/hr	400/kg	144
3 cartridge replacement once in 3 months	450/- each		20
4 membrane replacement once in two years	32000/each		53.33333
5 activated carbon replacement once in year	2500/each		8.333333
total cost			361.3333

cost per litre

0.060222

say

6 paise/litre

cost of investment

rate of interest=16%

186.6667

per litre

investment cost

0.0385

say

4 paise/litre

total cost

10 paise/litre

STANDARD OPTION

2hp 1.5units

same
one year
nil

Signature

2. R.O.SYSTEMS :

Sr.No.	CUSTOMER DETAILS	PLANT CAPACITY
1.	A.P.HIGH COURT, HYDERABAD	1000 LTRS/HR.
2.	B.SEENAI AH AND COMPANY, NELLORE	1000 LTRS/HR
3.	INDOTECH ENGINEERS, HYDERABAD	2000 LTRS/HR
4.	KAKATIYA MEDICAL COLLEGE WARANGAL	250 LTRS/HR.
5.	HOTEL SHANTISAGAR RAJBHAVAN ROAD	250 LTRS/HR
6.	MR.MOHAN KRISHNA UMEJA LABORATORIES, SIKH VILLEGE	500 LTRS/HR
7.	VISWA BHARATHI HOSPITALS KURNOOL	100 LTRS/HR
8.	NEW LIFE HOSPITALS, HYDERABAD	100 LTRS/HR
9.	MAHAVEER COLLEGE OF ENGINEERING HYDERABAD	250 LTRS/HR.
10.	HRD COLLEGE OF ENGINEERING DEVERKONDA	100 LTRS/HR.
11.	SUNFLOWER HIGH SCHOOL, CHALLAPALLI	250 LTRS/HR
12.	MANNE PAPER MILLS LTD	100 LTRS/HR
13.	GAMPA ALCOATS LTD	250 LTRS/HR
14.	SUNBEAM MACHINERY PVT.LTD., BOLARAM IDA, HYDERABAD	500 LTRS/HR
15.	BHARAT BUILDERS MADHAPUR, HYDERABAD	250 LTRS/HR
16.	HERITAGE FOODS INDIA LIMITED, KUPPAM	10000 LTRS/HR
17.	HERITAGE FOODS INDIA LIMITED, MULUGU	5000 LTRS/HR

-----AND MANY OTHERS-----

LIST OF CUSTOMERS

I. WATER SOFTENERS :

Sr.N o.	CUSTOMER DETAILS	MODEL	RESIN CAPACITY
1.	RAMOJI FILM CITY	4272	1200 LTRS
2.	APARNA CONSTRUCTIONS, SENR VALLEY, JUBILEE HILLS	4272	1250 LTRS
3.	APARNA CONSTRUCTIONS, Aparna Orchids, Madhapur	4872	1650 LTRS
4.	APARNA HEIGHTS-240 APARTMENTS KONDAPUR	PSF,ACF & SOFTENER	2400 LTRS FLOW :32.5KL/hr
5.	B.SEENAI AH AND COMPANY, NELLORE	4872	1650 LTRS
6.	SRI KRISHNA ESTATES PVT LTD, BEGUMPET	4272	1200 LTRS
7.	SRI KRISHNA VENTURES PVT.LTD., SRINAGAR COLONY	3672	900 LTRS
8.	VINTAGE PROJECTS PVT.LTD., ABIDS, CHIRAGALI LANE	2472	400 LTRS.
9.	RATNA HOSPITAL, SANTOSH NAGAR	2472	400 LTRS.
10.	EMERALD GARDENS, VASANT ESTATES PVT.LTD. MADHAPUR	3072	600 LTRS.
11.	INDRAPRASTHA TOWERS RAJBHAVAN ROAD	3072(MS)	600 LTRS.
12.	STERLING HEIGHTS APARTMENTS, GANDHI NAGAR	2162	250 LTRS.
13.	RAGHAVENDRA APARTMENTS A BLOCK, D.D.COLONY	2162	250 LTRS.
14.	RAGHAVENDRA APARTMENTS B-BLOCK,D.D.COLONY	2162	250 LTRS.
15.	SAI KASTURI APARTMENTS D.D.COLONY	2162	250 LTRS.
16.	ACROPOLIS APARTMENTS HABSIGUDA	2472	400 LTR.
17.	ALPINE TOWERS NEAR VICEROY HOTEL	1865	200 LTRS.
18.	MARVEL RESIDENCY, RAJ BHAVAN ROAD,HYD.	3072	650 LTRS
19.	TYCHE INDUSTRIES LTD., KAKINADA	3672	MULTIGRADE FILTER

-----AND MANY OTHERS-----

ANNEXURE – II

SCOPE OF SUPPLY

Sr.No.	EQUIPMENT DETAILS	QUANTITY
A. PRETREATMENT SECTION		
1.	Raw Water Feed Pump, 2300 ltrs/hr flow rate, 2.5 Kg/sq.cm pressure, 0.75 HP, Kirlosker make Monoblock type pump.	1 no.
2.	Pressure Sand Filter in PENTAIR WATER make FRP Tank model 1665 with side mounting type Single lever operated 40 NB Multiport valve, duly filled with initial charge of filter media of graded sand and pebbles.	1 no.
3.	Activated Carbon Filter in PENTAIR WATER make FRP Tank model 1665 with side mounting type Single lever operated 40NB Multiport valve, duly filled with initial charge of filter media of activated carbon granules	1 no.
4.	Antiscalant Dosing System consisting of electronic diaphragm type dosing pump with suction and discharge tubes, Liquid Antiscalant holding tank in PP/HDPE, Injector Nozzles etc.. Aster Technologies /equivalent make	1 no.
5.	Inter connecting piping with necessary valves and fittings in UPVC construction	1 lot
B. R.O.SECTION		
1.	Micron Cartridge Filter, 20" long, Poly amide housing with 5 micron PP filter cartridge, Flow rate : 2300Ltrs/hr	1 no.
2.	PENTAIR WATER/AQUANOMICS-KBL/GRUNDFOS make High Pressure Pump, Vertical Multistage type centrifugal Pump, 2300 ltrs/hr flow rate, 1.5 KW,3PHASE, in SS construction	1 no
3.	PENTAIR WATER make FRP Pressure Housings for R.O. Membranes, each suitable for two 4" x 40" R.O. Membranes, 250 psi pressure rating, end port type. Model: 40-250-2	2 nos.
4.	HYDRANAUTICS/DOW-FILMTEC/equivalent make R.O. Membranes, Reverse Osmosis Membranes Model ESPA2-4040/BW30-LE-4040	4 nos.
5.	Electrical Control Panel & Instrumentation(WET) panel having the following instruments. 1. Pressure gauges : 2 nos. 2. Flow meters(Rotameters) : 2 nos. 3. Conductivity Indicators : 1 no. 4. Push Button Startes : 5 nos. 5. Glow lamp indicators : 5 nos. 6. Low & High Pressure switches : 1 set.	1 no.
6.	SS fabricated Skid for mounting all the above	1 no.
7.	Inter-connecting piping with necessary valves and fittings in UPVC and SS construction	1 lot
8.	Blending line for mixing ACF water with RO product water with MCF and 100 LPH UV purifier.	1 set

NOTE : 1. ONLINE CHLORINE DOSING SYSTEM CONSISTING OF E-DOSE DOSING PUMP, 30 LTRS HDPE DRUM FOR HOLDING CHEMICAL WILL BE PROVIDED AT EXTRA COST OF Rs.10000/- EACH.

2. A.M.C WILL BE CARRIED OUT @ Rs.1200/PER MONTH. THERE WILL BE TWO VISITS IN A MONTH FOR INSPECTION AND REPORTING. REPLACEMENT OF SPARES AND CONSUMMABLES WILL BE CARRIED OUT AT EXTRA COST.

H. S. Prasad

ANNEXURE - III

SCHEDULE OF EXCLUSIONS & TERMINATION POINTS

1. SCHEDULE OF EXCLUSIONS

- A. All Civil works, such as plant building/shed, foundation of equipment and nut-bolts, supporting structures, platforms, tanks and concreting of pressure vessels.
- B. Construction of drain sump and drain channels and Neutralizing Pit.
- C. Acid/Alkali proof lining for all the drain trenches and Neutralizing Pit.
- D. Plant area & building illumination. Ventilation and Earthing of all the equipment.
- E. Final grouting of all the equipment.
- F. Power supply up-to R.O.& D.M.Plant pumps and control supply up to instrument and electrical panels.
- G. Supply of power, water during site fabrications and dosing chemicals for trial runs of 14 days.
- H. M.C.C. and power cabling up to battery limits.
- I. Laboratory testing facilities, instruments and reagents.
- J. Feed Water Storage Tanks and Feed Water Pump.
- K. All pipe work and drainage work beyond our termination points.
- L. Indoor & Outdoor illumination.
- M. All equipment, works and services not specifically mentioned as forming part of our scope of supply.
- N. Visiting inspector's charges for Lodging & Boarding and Traveling etc.

CLIENT TO PROVIDE THE FOLLOWING FOR PLANT TRIAL-OPERATION
(FREE OF COST TO US)

- | | | |
|---|---|---|
| 1.Electric power supply | : | 230Walt single phase,50 hz for instrument control supply. |
| | : | 440 V AC 3 phase,50 hz and panel. |
| 2.Service Water | : | As per process requirement at flooded suction Construction water. |
| 3.Power for construction and site fabrication | : | As per requirement. |
| 4.Dosingt chemicals | : | As required. |
| 5.Labour | : | Skilled/Unskilled labor as & when required. |

TERMINATION POINTS :

- 1.Inlet of Raw Water Feed Pump
- 2.Product Water Outlet of R.O.Skid.
- 3.Reject Water Outlet of R.O.Skid
- 4.All drain outlets of Multiport valves.

TCSplanned

**ANNEXURE -IV
PRICE BID
AND
COMMERCIAL TERMS & CONDITIONS**

PRICE :

Rs.2,61,000/- FOR THE 1000 LTRS/HR CAPACITY PURIFIER DRINKING WATER PLANT BASED ON R.O.AS PER THE SCOPE OF SUPPLY.

TERMS AND CONDITIONS :-

20936

Prices	:	For installing at your site at Hyderabad.
Sales Tax	:	VAT extra @12.5%
Delivery schedule	:	Within 3-4 weeks from the date of receipt of your order with advance.
Delay in completion	:	If the completion of work is delayed beyond the contractual date for reasons beyond our control, we shall be entitled to suitable readjustment in the period of completion by mutual consent and the contract will stand amended to that extent.
Payment terms	:	50% of the order value in advance along with your order 45% of the order value against proforma invoice on proof of readiness of materials for despatch. and balance 5% immediately after commissioning.
Variation/Addition in Scope of Work	:	The scope of supply of equipments is restricted to our Scope mentioned in Annexure-II . However any subsequent additions or Alterations if made by you will be acceptable to us, provided it is convenient to carry out and the prices and delivery periods are revised suitably
Validity	:	Our offer is valid for 30 days only.
ERECTION & COMMISSIONING	:	We shall install the system at your site. Necessary skilled, unskilled workmen with tools and tackles should be provided by you at your cost. For outstation installation to & fro transport charges, boarding and lodging charges for our crew have to be paid by you.

WARRANTY FOR EQUIPMENT :

Our liability in respect of any defect in failure of equipment supplied by us or any loss, injury or damage attributable thereto, is limited to making good by replacement or repairs for defects which under proper use appear therein, provided the equipment is operated and maintained in accordance with our instructions and arise totally from proved faulty design, material or workmanship, within a period of 12 months from the date of commissioning of equipment or 18 months from the date of last despatch, whichever is earlier. At the termination of which period, all liability on our part will cease. This warranty is applicable under the following conditions:

- a. Any replacement/repairs required to be made under the provisions of the above warranty will be carried out at our option, either at site or at our works. In the latter case, you will arrange to promptly return the defective parts to us.
- b. After repairs/replacements, the period of warranty for the entire equipment including replaced/repaired parts will limit itself to the un-expired portion of the total warranty period.
- c. Bought out components are warranted by us only to the extent of warranties given to us by our suppliers. Electrical components such as heaters, motors, contactors etc., rubber components and instruments such as pressure gauges, thermometers, etc are however, not covered under this warranty. All consumables such as pH electrodes will not be replaced by us as the life of the same is of around six months.
- d. In respect of the equipment where despatch after readiness is delayed due to specific instructions or lack of instructions from you, the warranty will be limited to 18 months from the date of readiness for despatch of equipment as notified by us.
No repairs or replacements, unless authorised by us in writing, will be carried out by you or any other party on our equipment during the warranty period:

The warranty period does not cover the following:

- a. Normal wear and tear.
- b. Damages/defects arising out of mal-operation of the plant by the purchaser or any of his representatives or successors OR due to accidents.
- c. Replacement of consumables such as RO membranes and Cartridge elements, chemicals etc.

FORCE MAJEURE:

We shall be under no liability for delay in delivery/completion of work, if we or our subcontractors/suppliers are prevented from discharging our respective obligations under the contract for causes beyond our reasonable control, including but not limited to war (whether declared or not), invasion, acts of enemies, hostilities, riots, civil commotion, labour disturbance, strikes, lockouts, layoffs, mutiny, insurrection, rebellion, revolution, epidemics, accidents, sabotage, fire, earthquake, floods, government orders and restrictions, legal enactments, delay or inability to obtain materials due to change in import policy or other statutory restrictions, lack of transport facilities, interruptions/ restrictions in power supply, damage to or breakdown of plant, machinery and equipment etc.

We trust you will find our offer is inline with your requirements and quite competitive. Should you require any further clarifications please do not hesitate to contact us.

Thanking you and looking forward to receive your valued order,
Yours sincerely,

for **EMMAR MARKETING SERVICES**


PRABHAKARA SARMA

P.V. Nardlu



REF : PS/EMS/1.791/2008
DATE : 18-1-2008

M/s MODI PROPERTIES & INVESTMENTS PVT.LTD.,
M.G.ROAD, SECUNDERABAD-500003.

KIND ATTENTION : SHRI GAURANG MODY, DIRECTOR.

Dear Sir,

SUBJECT : YOUR REQUIREMENT OF PURIFIED DRINKING WATER PLANT BASED REVERSE OSMOSIS TECHNOLOGY.

Thank you very much for the kind courtesy you have extended to the undersigned when he has visited your office yesterday. We refer to the discussions he had with you and Mr. SOHAM MODI, Managing Director on the above subject. During the discussions you have informed us that you require TWO numbers purified Drinking Water Plants of 1000 Ltrs/hr capacity for your upcoming apartments complex. The feed water to the system is Borewell Water. We have assumed that the Total Dissolved solids in your raw water is 1000ppm and the Total Hardness present is 450 ppm. PLEASE PROVIDE YOUR RAW WATER ANALYSIS AT THE TIME OF RELEASING YOUR ORDER.

We are basing the design of our R.O system on the above parameters. Accordingly we are submitting our detailed offer for the PURIFIED DRINKING WATER PLANT as per the enclosed annexure for your kind consideration.

We use in our Water Treatment Systems all the components such as Tanks, Membrane Housings, Membranes, High Pressure Pumps etc. from M/s PENTAIR WATER INDIA PVT.LTD., GOA. M/s Pentair Water India is a wholly owned subsidiary of M/s PENTAIR WATER INC., a US based Multinational Organization operating from 55 countries around the world with a turnover of more than US \$2.7 billions. It is a world leader in providing systems and components to the water treatment industry. It is having a state-of-the-art manufacturing facility at Goa for manufacturing FRP Tanks, Membrane Housings, Swimming Pool Filters etc. components required for the Water Treatment Industry. We are the authorized Distributor for PENTAIR'S products in Andhra Pradesh.

We trust you will find our offer is inline with your requirements and quite competitive. Should you require any further clarifications please do not hesitate to contact us.

Thanking you and looking forward to receive your valued order,

Yours sincerely,
For EMMAR MARKETING SERVICES

PRABHAKAR SARMA

AMC - ??

Online Chlorine Dosing System consisting of e-dose dosing pump, 50 ltrs holding tank etc : Rs.15,000/- each.

A.M.C without materials/consumables ^{and spare parts} such as cartridges etc will be Rs 3000/-permonth @ Two visits per month to be hire for inspection and repairs to you.
08/15/08

EMMAR MARKETING SERVICES

3-6-237, Suite No. 311, 3rd Floor, Lingapur-La-Builde,
Amrutha Estates, Himayathnagar, Hyderabad - 500 029. INDIA.
Phone : Off : 23222016, 23222631
Grams : "EMMAR" Fax : 040 - 23222016
E-mail : prasarma@satyam.net.in

ANNEXURE - I

BASIS OF DESIGN AND TREATMENT SCHEME

I. RAW WATER QUALITY:

We have designed the R.O. Plant based on assuming that your Bore-well Water is having Total Dissolved Solids (TDS) of 1000ppm and the Total Hardness is 450 ppm.

The R.O. System is designed to produce treated water at a normal flow rate of 1000 ltrs/hr with an average recovery of 45%. This means that the feed to the R.O. System will be 2250 ltrs/hr.

R.O. FEED WATER LIMITING CONDITIONS :

TURBIDITY	:	< 1 NTU
S.D.I.	:	< 3
HEAVY METALS	:	NIL
IRON	:	< 1 ppm
OIL & GREASE	:	NIL
ORGANICS & BACTERIA	:	NIL
RESIDUAL CHLORINE	:	NIL
TEMPERATURE	:	<u>40 DEG C.</u>

2. PRODUCT WATER QUALITY : The treated Water quality at the product water outlet of the Plant will be

pH	:	6.5 to 7.5 ✓
TDS	:	Less than 50ppm ✓

The above product water quality shall be achieved subject to :

- The Raw Water quality is not worse than the design raw water quality.
- Original Spares are used for replacement.
- Specified quality of chemicals are used as antiscalants.

Handwritten signature

ANNEXURE – II SCOPE OF SUPPLY

Sr.No.	EQUIPMENT DETAILS	QUANTITY
A. PRETREATMENT SECTION		
1.	Raw Water Feed Pump, 2300 ltrs/hr flow rate, 2.5 Kg/sq.cm pressure, 0.75 HP, Kirloskar make Monoblock type pump.	1 no.
2.	Pressure Sand Filter in PENTAIR WATER make FRP Tank model 1665 with side mounting type Single lever operated 40 NB Multiport valve, duly filled with initial charge of filter media of graded sand and pebbles.	1 no.
3.	Activated Carbon Filter in PENTAIR WATER make FRP Tank model 1665 with side mounting type Single lever operated 40NB Multiport valve, duly filled with initial charge of filter media of activated carbon granules	1 no.
4.	Antiscalant Dosing System consisting of electronic diaphragm type dosing pump with suction and discharge tubes, Liquid Antiscalant holding tank in PP/HDPE, Injector Nozzles etc.. Aster Technologies /equivalent make	1 no.
5.	Inter connecting piping with necessary valves and fittings in UPVC construction	1 lot
B. R.O. SECTION		
1.	Micron Cartridge Filter, 20" long, Poly amide housing with 5 micron PP filter cartridge, Flow rate : 2300Ltrs/hr	1 no.
2.	PENTAIR WATER/AQUANOMICS-KBL/GRUNDFOS make <u>High Pressure Pump</u> , Vertical Multistage type centrifugal Pump, 2300 ltrs/hr flow rate, 1.5 KW, 3PHASE, in SS construction	1 no
3.	PENTAIR WATER make FRP Pressure <u>Housings</u> for R.O. Membranes, each suitable for two 4" x 40" R.O. Membranes, 250 psi pressure rating, end port type. Model: 40-250-2	2 nos.
4.	HYDRANAUTICS/DOW-FILMTEC/equivalent make R.O. Membranes, Reverse Osmosis Membranes Model ESPA2-4040/BW30-LE-4040	4 nos.
5.	Electrical Control Panel & Instrumentation(WET) panel having the following instruments. 1. Pressure gauges : 2 nos. 2. Flow meters(Rotameters) : 2 nos. 3. Conductivity Indicators : 1 no. 4. Push Button Starters : 5 nos. 5. Glow lamp indicators : 5 nos. 6. Low & High Pressure switches : 1 set.	1 no.
6.	SS fabricated Skid for mounting all the above	1 no.
7.	Inter-connecting piping with necessary valves and fittings in UPVC and SS construction	1 lot
8.	Blending line for mixing ACF water with RO product water with MCF and 100 LPH UV purifier.	1 set
C. POST TREATMENT SECTION		
1.	Storage Tank in Stainless Steel Construction, 1000 ltrs capacity, vertical cylindrical type.	1 no.
2.	FISHER/Equivalent make SS Monoblock type circulation pump, 1000LPH capacity, 0.75HP, single phase.	1 no.

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CONTINUATION SHEET NO.

3.	Micron Cartridge Filter, 10" long, 0.5micron rating cartridge	1 no.
4.	PENTAIR/ALFA/Equivalent make UV Purifier, 1000LPH capacity.	1 no.
5.	Interconnecting Piping in UPVC materials.	1 lot

H. G. Sam

ANNEXURE - III SCHEDULE OF EXCLUSIONS & TERMINATION POINTS

1. SCHEDULE OF EXCLUSIONS

- A. All Civil works, such as plant building/shed, foundation of equipment and nut-bolts, supporting structures, platforms, tanks and concreting of pressure vessels.
- B. Construction of drain sump and drain channels and Neutralizing Pit.
- C. Acid/Alkali proof lining for all the drain trenches and Neutralizing Pit.
- D. Plant area & building illumination. Ventilation and Earthing of all the equipment.
- E. Final grouting of all the equipment.
- F. Power supply up-to R.O.&D.M.Plant pumps and control supply up to instrument and electrical panels.
- G. Supply of power, water during site fabrications and dosing chemicals for trial runs of 14 days.
- H. M.C.C. and power cabling up to battery limits.
- I. Laboratory testing facilities, instruments and reagents.
- J. Feed Water Storage Tanks and Feed Water Pump.
- K. All pipe work and drainage work beyond our termination points.
- L. Indoor & Outdoor illumination.
- M. All equipment, works and services not specifically mentioned as forming part of our scope of supply.
- N. Visiting inspector's charges for Lodging & Boarding and Traveling etc.

CLIENT TO PROVIDE THE FOLLOWING FOR PLANT TRIAL-OPERATION
(FREE OF COST TO US)

1.Electric power supply	:	230Walt single phase,50 hz for instrument control supply.
	:	440 V AC 3 phase,50 hz and panel.
2.Service Water	:	As per process requirement at flooded suction Construction water.
3.Power for construction and site fabrication	:	As per requirement.
4.Dosingt chemicals	:	As required.
5.Labour	:	Skilled/Unskilled labor as & when required.

TERMINATION POINTS :

- 1.Inlet of Raw Water Feed Pump
- 2.Product Water Outlet of R.O.Skid/UV purifier.
- 3.Reject Water Outlet of R.O.Skid
- 4.All drain outlets of Multiport valves.

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Power consumption ?

**ANNEXURE -IV
PRICE BID
AND
COMMERCIAL TERMS & CONDITIONS**

PRICE :

Rs.3,96,000/- FOR THE 1000 LTRS/HR CAPACITY PURIFIER DRINKING WATER PLANT BASED ON R.O.AS PER THE SCOPE OF SUPPLY.

TERMS AND CONDITIONS :-

Prices	:	For installing at your site at Hyderabad.
Sales Tax	:	VAT extra @12.5%.
Delivery schedule	:	Within 3-4 weeks from the date of receipt of your order with advance.
Delay in completion	:	If the completion of work is delayed beyond the contractual date for reasons beyond our control, we shall be entitled to suitable readjustment in the period of completion by mutual consent and the contract will stand amended to that extent.
Payment terms	:	50% of the order value in advance along with your order 45% of the order value against proforma invoice on proof of readiness of materials for despatch. and balance 5% immediately after commissioning.
Variation/Addition in Scope of Work	:	The scope of supply of equipments is restricted to our Scope mentioned in Annexure-II . However any subsequent additions or Alterations if made by you will be acceptable to us, provided it is convenient to carry out and the prices and delivery periods are revised suitably
Validity	:	Our offer is valid for 30 days only.
ERECTION & COMMISSIONING	:	We shall install the system at your site.
Necessary skilled, unskilled workmen with tools and tackles should be provided by you at your cost. For outstation installation to & fro transport charges, boarding and lodging charges for our crew have to be paid by you.		

WARRANTY FOR EQUIPMENT :

Our liability in respect of any defect in failure of equipment supplied by us or any loss, injury or damage attributable thereto, is limited to making good by replacement or repairs for defects which under proper use appear therein, provided the equipment is operated and maintained in accordance with our instructions and arise totally from proved faulty design, material or workmanship, within a period of 12 months from the date of commissioning of equipment or 18 months from the date of last despatch, whichever is earlier. At the termination of which period, all liability on our part will cease. This warranty is applicable under the following conditions:

CONTINUATION SHEET NO.

- a. Any replacement/repairs required to be made under the provisions of the above warranty will be carried out at our option, either at site or at our works. In the latter case, you will arrange to promptly return the defective parts to us.
- b. After repairs/replacements, the period of warranty for the entire equipment including replaced/repaired parts will limit itself to the un-expired portion of the total warranty period.
- c. Bought out components are warranted by us only to the extent of warranties given to us by our suppliers. Electrical components such as heaters, motors, contactors etc., rubber components and instruments such as pressure gauges, thermometers, etc are however, not covered under this warranty. All consumables such as pH electrodes will not be replaced by us as the life of the same is of around six months.
- d. In respect of the equipment where despatch after readiness is delayed due to specific instructions or lack of instructions from you, the warranty will be limited to 18 months from the date of readiness for despatch of equipment as notified by us.
No repairs or replacements, unless authorised by us in writing, will be carried out by you or any other party on our equipment during the warranty period.

The warranty period does not cover the following:

- a. ✓ Normal wear and tear.
- b. ✓ Damages/defects arising out of mal-operation of the plant by the purchaser or any of his representatives or successors OR due to accidents.
- c. ✓ Replacement of consumables such as RO membranes and Cartridge elements, chemicals etc.

FORCE MAJEURE:

We shall be under no liability for delay in delivery/completion of work, if we or our subcontractors/suppliers are prevented from discharging our respective obligations under the contract for causes beyond our reasonable control, including but not limited to war (whether declared or not), invasion, acts of enemies, hostilities, riots, civil commotion, labour disturbance, strikes, lockouts, layoffs, mutiny, insurrection, rebellion, revolution, epidemics, accidents, sabotage, fire, earthquake, floods, government orders and restrictions, legal enactments, delay or inability to obtain materials due to change in import policy or other statutory restrictions, lack of transport facilities, interruptions/ restrictions in power supply, damage to or breakdown of plant, machinery and equipment etc.

We trust you will find our offer is inline with your requirements and quite competitive. Should you require any further clarifications please do not hesitate to contact us.

Thanking you and looking forward to receive your valued order,
Yours sincerely,

for EMMAR MARKETING SERVICES



PRABHAKARA SARMA

EMMAR MARKETING

From: "EMMAR MARKETING" <prasarma@satyam.net.in>
To: <soham@modiproperties.com>
Cc: <gaurang@modiproperties.com>
Sent: Tuesday, March 04, 2008 5:08 PM
Attach: Modi investments ro1000-2.doc
Subject: 1 KL/HR RO SYSTEM BASED DRINKING WATER PLANT

M/s MODI PROPERTIES & INVESTMENTS PVT.LTD.,
M.G.ROAD, SECUNDERABAD-50003.

KIND ATTENTION : MR.SOHAM MODI MANAGING DIRECTOR.

DEAR SIR,

SUBJECT : YOUR REQUIREMENT OF 1KL/HR DRINKING WATER SYSTEM BASED ON R.O.TECHNOLOGY.

REFERENCE : OUR OFFER NO.:PS/EMS/3.895/2008 DATED 4-3-2008.

I have forwarded to you our above referred revised offer for supply of a 1KL/Hr Drinking Water System based on R.O.Technology to by e-mail which you must have received by now. On reviewing the offer at the time of printing the same, I have observed a typographical error which occurred inadvertently. In ANNEXURE-IV of our offer we have by mistake mentioned the PRICE as Rs.2,16,000/- which is actually 2,61,000/- which occurred due to human error. I request you to kindly condone this error and consider the PRICE as Rs.2,61,000/- for the 1000ltrs/hr for the Purified Drinking Water Plant based on R.O.. All other technical specifications, Commercial Terms and Conditions will remain same. However I am enclosing here with our offer with corrected price as a file attachment to this mail, which I request you to consider. Trust you will do the needful.

Thanks and best regards,

PRABHAKARA SARMA
EMMAR MARKETING SERVICES
HYDERABAD

MOBILE PHONE : 9849022539

3/4/2008

EMMAR MARKETING SERVICES

3-6-237, Suite No. 311, 3rd Floor, Lingapur-La-Buide,
Amrutha Estates, Himayathnagar, Hyderabad - 500 029. INDIA.
Phone : Off : 23222016, 23222631
Grams : "EMMAR" Fax : 040 - 23222016
E-mail : prasarma@satyam.net.in

EMMAR MARKETING

From: "EMMAR MARKETING" <prasarma@satyam.net.in>
To: <soham@modiproperties.com>
Cc: <gaurang@modiproperties.com>
Sent: Tuesday, March 04, 2008 3:53 PM
Attach: Modi investments ro1000-2.doc; costperlitre ro water for MODI PROPERTIES 1KL RO.xls; PICT0212.JPG; customerlist for softeners and ro systems1.doc
Subject: PURIFIED DRINKING WATER SYSTEM BASED ON RO - 1 KL/HR

----- Original Message -----

From: Emmar
To: soham@modiproperties.com
Cc: gaurang@modiproperties.com
Sent: Tuesday, March 04, 2008 3:35 PM

M/s MODI PROPERTIES & INVESTMENTS PVT.LTD.,
M.G.ROAD, SECUNDERABAD - 500003.

KIND ATTENTION : MR.SOHAM MODI, MANAGING DIRECTOR.

SUBJECT : YOUR REQUIREMENT OF PURIFIED DRINKING WATER PLANT BASED ON REVERSE OSMOSIS TECHNOLOGY.

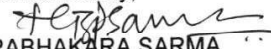
Dear Sir,

Further to our discussions we had yesterday in your office, I am enclosing, as file attachments to this mail, our revised offer with list of customers, cost per litre calculations and a photograph of our 1KL/Hr R.O.System installed at A.P.High Court for your kind reference.

I sincerely hope that you will find our revised offer very competetive and favour us with uour valued order,

With best regards,

Yours sincerely,


PRABHAKARA SARMA
EMMAR MARKETING SERVICES
HYDERABAD

MOBILE NO.: 9849022539

3/4/2008

EMMAR MARKETING SERVICES

3-6-237, Suite No. 311, 3rd Floor, Lingapur-La-Buide,
Amrutha Estates, Himayathnagar, Hyderabad - 500 029. INDIA.
Phone : Off : 23222016, 23222631
Grams : "EMMAR" Fax : 040 - 23222016
E-mail : prasarma@satyam.net.in

EMMAR MARKETING SERVICES

OPERATING COST OF 1000 LPH RO SYSTEM

considering 20 hrs operation daily: Product water output/day=20000ltrs

1 electrical power	4HP(3KWH)	Rs.7/-unit	420
2 antiscalant	50 gms/hr	400/kg	400
3 cartridge replacement once in 3 months	350/- each		7.777778
4 membrane replacement once in two years	14000/-each		76.71233
5 activated carbon replacement once in a year	3500/each		9.589041
6 sand media replacement once in 1.1/2 years	1500/each		2.739726
7 other misc. expenses for maintenance of MPVs, HP pump and other items	15000/-year		41.09589
total cost per day of 20000ltrs product water			957.9148

cost per litre
say

0.047896
5.00 paise/litre



LIST OF CUSTOMERS

1. WATER SOFTENERS :

Sr.N o.	CUSTOMER DETAILS	MODEL	RESIN CAPACITY
1.	RAMOJI FILM CITY	4272	1200 LTRS
2.	APARNA CONSTRUCTIONS, SENIOR VALLEY, JUBILEE HILLS	4272	1250 LTRS
3.	APARNA CONSTRUCTIONS, Aparna Orchids, Madhapur	4872	1650 LTRS
4.	APARNA HEIGHTS-240 APARTMENTS KONDAPUR	PSF,ACF & SOFTENER	2400 LTRS FLOW :32.5KL/hr
5.	B.SEENAIHAH AND COMPANY, NELLORE	4872	1650 LTRS
6.	SRI KRISHNA ESTATES PVT LTD, BEGUMPET	4272	1200 LTRS
7.	SRI KRISHNA VENTURES PVT.LTD., SRINAGAR COLONY	3672	900 LTRS
8.	VINTAGE PROJECTS PVT.LTD., ABIDS, CHIRAGALI LANE	2472	400 LTRS.
9.	RATNA HOSPITAL, SANTOSH NAGAR	2472	400 LTRS.
10.	EMERALD GARDENS, VASANT ESTATES PVT.LTD. MADHAPUR	3072	600 LTRS.
11.	INDRAPRASTHA TOWERS RAJBHAVAN ROAD	3072(MS)	600 LTRS.
12.	STERLING HEIGHTS APARTMENTS, GANDHI NAGAR	2162	250 LTRS.
13.	RAGHAVENDRA APARTMENTS A BLOCK, D.D.COLONY	2162	250 LTRS.
14.	RAGHAVENDRA APARTMENTS B-BLOCK,D.D.COLONY	2162	250 LTRS.
15.	SAI KASTURI APARTMENTS D.D.COLONY	2162	250 LTRS.
16.	ACROPOLIS APARTMENTS HABSIGUDA	2472	400 LTR.
17.	ALPINE TOWERS NEAR VICEROY HOTEL	1865	200 LTRS.
18.	MARVEL RESIDENCY, RAJ BHAVAN ROAD,HYD.	3072	650 LTRS
19.	TYCHE INDUSTRIES LTD., KAKINADA	3672	MULTIGRADE FILTER

-----AND MANY OTHERS-----

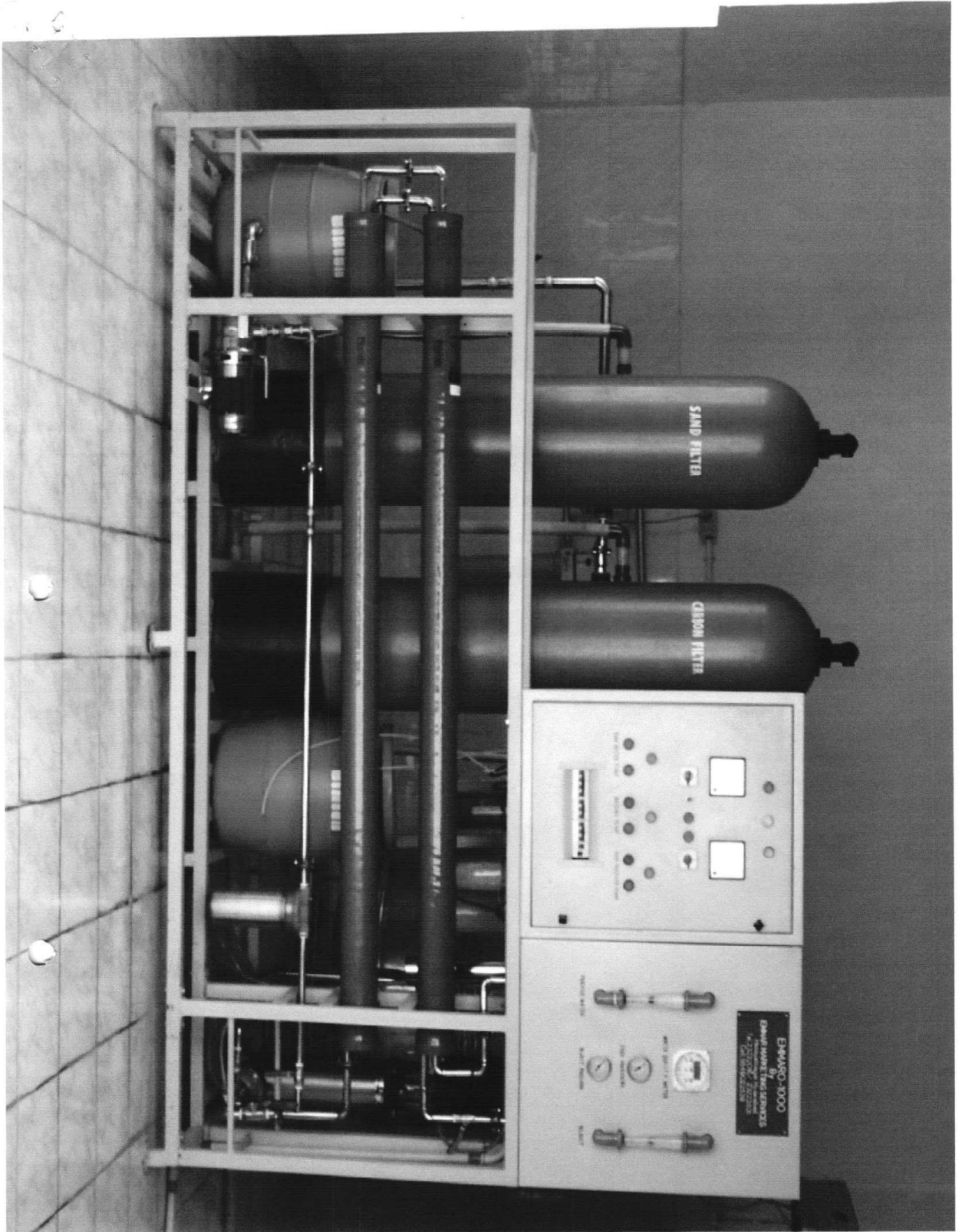


2. R.O.SYSTEMS :

Sr.No.	CUSTOMER DETAILS	PLANT CAPACITY
1.	A.P.HIGH COURT, HYDERABAD	1000 LTRS/HR.
2.	B.SEENAI AH AND COMPANY, NELLORE	1000 LTRS/HR
3.	INDOTECH ENGINEERS, HYDERABAD	2000 LTRS/HR
4.	KAKATIYA MEDICAL COLLEGE WARANGAL	250 LTRS/HR.
5.	HOTEL SHANTISAGAR RAJBHAVAN ROAD	250 LTRS/HR
6.	MR.MOHAN KRISHNA UMEJA LABORATORIES, SIKH VILLEGE	500 LTRS/HR
7.	VISWA BHARATHI HOSPITALS KURNOOL	100 LTRS/HR
8.	NEW LIFE HOSPITALS, HYDERABAD	100 LTRS/HR
9.	MAHAVEER COLLEGE OF ENGINEERING HYDERABAD	250 LTRS/HR.
10.	HRD COLLEGE OF ENGINEERING DEVERKONDA	100 LTRS/HR.
11.	SUNFLOWER HIGH SCHOOL, CHALLAPALLI	250 LTRS/HR
12.	MANNE PAPER MILLS LTD	100 LTRS/HR
13.	GAMPA ALCOATS LTD	250 LTRS/HR
14.	SUNBEAM MACHINERY PVT.LTD., BOLARAM IDA, HYDERABAD	500 LTRS/HR
15.	BHARAT BUILDERS MADHAPUR, HYDERABAD	250 LTRS/HR
16.	HERITAGE FOODS INDIA LIMITED, KUPPAM	10000 LTRS/HR
17.	HERITAGE FOODS INDIA LIMITED, MULUGU	5000 LTRS/HR

-----AND MANY OTHERS-----

TCSP Sam



1 KL/hr R.O. Plant installed at A.P. High Court -
Hershey

REF : PS/EMS/3.895/2008
DATE : 4-3-2008



M/s MODI PROPERTIES & INVESTMENTS PVT.LTD.,
M.G.ROAD, SECUNDERABAD-500003.

KIND ATTENTION : SHRI GAURANG MODY, DIRECTOR.

Dear Sir,

**SUBJECT : YOUR REQUIREMENT OF PURIFIED DRINKING WATER
PLANT BASED REVERSE OSMOSIS TECHNOLOGY.**

REFERENCE: OUR OFFER NO. PS/EMS/1.791/2008 DATED 18-1-2008.

Thank you very much for the kind courtesy you have extended to the undersigned when he has visited your office yesterday. We refer to the discussions he had with you and Mr. SOHAM MODI, Managing Director on our above referred offer. During the discussions you have informed us that you do not require POST TREATMENT SYSTEM (Section C in Annexure-II of our offer) consisting of SS Storage Tank, SS Pump, UV Purifier and other items. Accordingly we are enclosing our revised and lowest offer for your kind consideration.

Further we are enclosing here with List of our esteemed Customers to whom we have supplied similar RO Systems for your kind perusal.. We are also enclosing Calculation for Operation Cost of the RO System on cost per Litre of Product Water basis which will include maintenance charges.

We sincerely hope that you will find our revised offer is inline with your requirements and

Thanking you and looking forward to receive your valued order,

Yours sincerely,
For EMMAR MARKETING SERVICES


PRABHAKARA SARMA

EMMAR MARKETING SERVICES

3-6-237, Suite No. 311, 3rd Floor, Lingapur-La-Buide,
Amrutha Estates, Himayathnagar, Hyderabad - 500 029. INDIA.
Phone : Off : 23222016, 23222631
Grams : "EMMAR" Fax : 040 - 23222016
E-mail : prasarma@satyam.net.in

ANNEXURE - I

BASIS OF DESIGN AND TREATMENT SCHEME

1. RAW WATER QUALITY:

We have designed the R.O. Plant based on assuming that your Bore-well Water is having Total Dissolved Solids (TDS) of 1000ppm and the Total Hardness is 450 ppm.

The R.O. System is designed to produce treated water at a normal flow rate of 1000 ltrs/hr with an average recovery of 45%. This means that the feed to the R.O. System will be 2250 ltrs/hr.

R.O. FEED WATER LIMITING CONDITIONS :

TURBIDITY	:	< 1 NTU
S.D.I.	:	< 3
HEAVY METALS	:	NIL
IRON	:	< 1 ppm
OIL & GREASE	:	NIL
ORGANICS & BACTERIA	:	NIL
RESIDUAL CHLORINE	:	NIL
TEMPERATURE	:	40 DEG C.

2. PRODUCT WATER QUALITY : The treated Water quality at the product water outlet of the Plant will be

pH	:	6.5 to 7.5
TDS	:	Less than 50ppm

The above product water quality shall be achieved subject to :

- The Raw Water quality is not worse than the design raw water quality.
- Original Spares are used for replacement.
- Specified quality of chemicals are used as antiscalants.



Emmar



From: "Emmar" <prasarma@satyam.net.in>
To: <gaurang@modiproperties.com>
Cc: <soham@modiproperties.com>
Sent: Thursday, February 28, 2008 4:16 PM
Attach: Modi Builders 1kl ro Techno commerical offer1 Pentair.doc
Subject: PENTAIR RO SYSTEM 1KL/HR

ATTN.: MR.GAURANG MODI

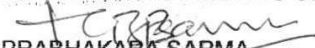
SIR,

AS REQUIRED BY YOU WE ARE ENCLOSING HEREWITH, AS A FILE ATTACHMENT, OFFER RECEIVED FROM OUR PRINCIPALS M/S PENTAIR WATER INDIA PVT.LTD., NEW DELHI, AND GOA FOR A 1KL/HR RO BASED DRINKING WATER SYSTEM.

IN CASE YOU REQUIRE ANY FURTHER CLARIFICATIONS PLEASE DO NOT HESITATE TO CONTACT US.

THANKING YOU AND LOOKING FORWARD TO RECEIVE YOUR VALUED ORDER,

YOURS SINCERELY,
FOR EMMAR MARKETING SERVICES


PRABHAKARA SARMA

CONTACT MOBILE : 9849022539

Dinju Pent Air

2/29/2008

EMMAR MARKETING SERVICES

3-6-237, Suite No. 311, 3rd Floor, Lingapur-La-Buide,
Amrutha Estates, Himayathnagar, Hyderabad - 500 029. INDIA.
Phone : Off : 23222016, 23222631
Grams : "EMMAR" Fax : 040 - 23222016
E-mail : prasarma@satyam.net.in

ANNEXURE - I
BASIS OF DESIGN

I. BASIS OF DESIGN:

The water treatment plant is designed for a 1 M³/hr. Flow rate.

No. of RO Stream	One
Total Feed Flow Rate	2000 LPH
RO Feed Flow Rate	2000 LPH
Permeate Flow Rate	1000 LPH
Recovery	50 %

II. RAW WATER ANALYSIS (Assumed):

TDS	----	≤1500 ppm
Total Hardness	----	≤ 500 ppm

Note: We are considering other parameters as NIL or within the limit, as the raw water quality given is assumed.

III. TREATED WATER QUALITY AT THE OUTLET OF RO SYSTEM

Appearance	----	Clear colorless
TDS	----	< 50 ppm
Total Hardness	----	< 20 ppm

NOTE: The above quality shall be achieved provided the feed quality is in same range as specified in this offer. In case of any change in the quality of raw water the same may have implications on operating parameters or on end results of the system.

Handwritten signature: H. G. Sam



Pentair
Water

ANNEXURE - II

SCOPE OF SUPPLY OF Packaged RO 1000 LPH

Our scope of supply shall be as below. Please contact us for any additional items / standby items required as same is presently not offered.

SR. NO.	DESCRIPTION	QTY.	SIZE / CAPACITY	MOC
1.	Raw Water Storage Tank	BY CLIENT		
2.	Raw Water Transfer Pump	1 No.	2 m ³ /hr @ 3.5 Kg /cm ²	SS 304
3.	Pressure Sand Filter with Manual valve	1 No.	16" X 65"	FRP Structural
4.	Activated Carbon Filter with Manual valve	1 No.	16" X 65"	FRP Structural
5.	Anti Scalent Dosing Pump	1 No.	0-4 LPH	Electronic meter
6.	Anti Scalent Solution Tank	1 No.	100 Ltrs	HDPE
7.	Micron Cartridge Filter	1 Lot	2 m ³ /hr flow capacity	Pentek
8.	Multistage Centrifugal High Pressure Pump with Motor	1 No.	2 m ³ /hr @ 12.5 bar	SS-304
9.	R. O. Membranes	4 Nos.	4" Ø	TFC
10.	R. O. Pressure Tubes (2 Element long)	2 Nos.	4" Ø, 300 psi	FRP Pentair

H. P. S. S. S.



Pentair
Water

11.	R. O. Skid	1 No.	--	MS
12.	Chemical Cleaning Tank	1 No.	100 Liter	HDPE
13.	Chemical Cleaning MCF	1 No.	5 Micron	Pentek
14.	PH Correction Dosing Pump	1 No.	0- 4 LPH	Electronic meter
15.	PH Correction Dosing Tank	1 No.	100 Ltrs	HDPE
INSTRUMENTATION				
1.	Flow indicator.			3 Nos.
2.	Pressure Switch across High Pressure Pumps.			2 Nos.
3.	Pressure Gauges.			5 Nos.
4.	Conductivity Indicator after RO Unit.			1 No.
5.	pH Indicator			1 No.
ELECTRICAL				
1.	Electrical Panel			One No.

Handwritten signature

ANNEXURE - III
SCHEDULE OF EXCLUSIONS & TERMINATION

SCHEDULE OF EXCLUSIONS:

01. All Civil Works, such as Plant Building, Shed, Foundation of Equipment, Foundation bolts, Pipe Supports, Supporting Structures, Platforms and Mass Concreting.
02. Construction of drain sump and drain channels and any special lining.
03. Final painting if required by customer at site and grouting of all the equipment.
04. Plant Area, Building Illumination, Ventilation and Earthing.
05. Supply of Water, Dosing chemicals for trial runs & commissioning.
06. Laboratory testing facilities, instruments and reagents.
07. Lubricant, oil & grease as required for initial operation.
08. All pipe work beyond our termination points.
09. Design codes standards, features, specifications and supply of all item, quantity, make etc., shall be as per our standard indicated in the proposal OR as per the scope & specifications finalized at the time of order. Any changes in design codes, standards, features, specifications, quantity, makes, addition of items other than specified in the order shall be at extra cost which shall be finalized before the same are supplied. The client shall not alter / delay the works progress and the schedule of payments related to the original order.
10. All equipments, work and services not specifically mentioned as forming part of our offer.

TERMINATION POINTS

SR NO	DESCRIPTION	TERMINATION POINTS
1.	From the Inlet of Raw Water Pump	Starting Point
2.	At the Outlet of RO Plant	Ending Point

Handwritten signature

ANNEXURE - III
SCHEDULE OF EXCLUSIONS & TERMINATION

SR.NO	DESCRIPTION	PRICE IN RS.
1	Our Prices for Design, Engineering, Supplies of Complete Water Treatment Plant as per Scope of Supplies mentioned in Annexure II will be	Rs. 6,87,000-00

Terms & Conditions: -

- * Excise Duty 6.68% or as applicable on basic prices.
- * CST shall be NIL against form C or 12.5% as applicable on basic price and excise duty.
- * Freight & Transit Insurance is extra at actual and on to-pay basis.

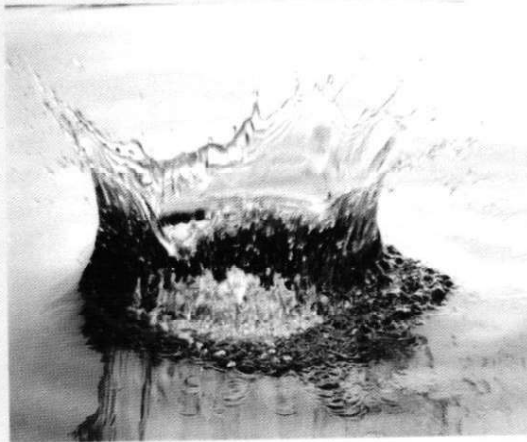
Payment Terms: -

- 60% Advance - Along with the Purchase Order.
- 40% Balance Payment - Against Proforma Invoice prior to dispatch the material.

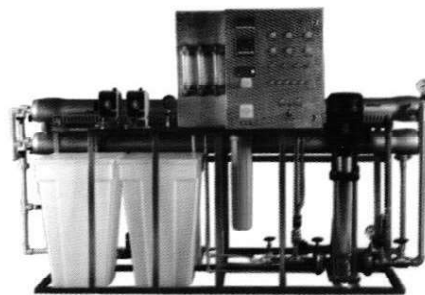
Warranty: - It shall be for 12 months from the date of Installation.

Delivery Schedule: - 6-8 Weeks after receiving the confirmed PO with advance

[Handwritten Signature]



WORLD CLASS WATER TREATMENT SYSTEMS

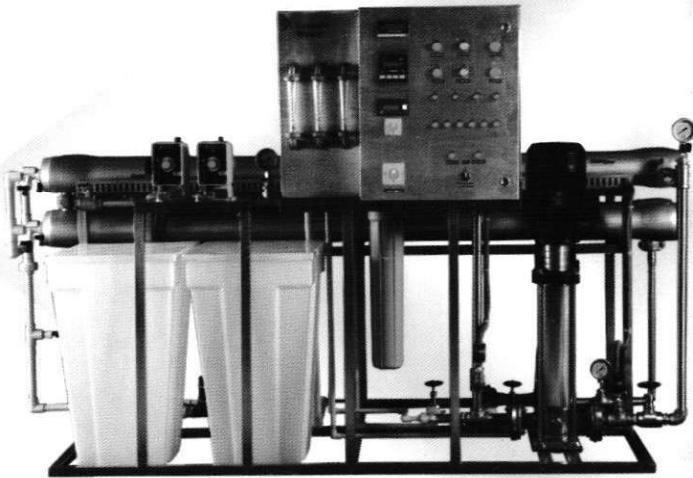


Pentair
Water

Safe, Clean Water

PenROS - Pentair Reverse Osmosis System

Pentair RO systems are world class water treatment systems which can be used for drinking water treatment as well for industrial water treatment. Apart from microbiological impurities like bacteria and viruses, it removes dissolve salts, hardness, chemicals, pesticides and all types of suspended solids.



Flow capacity: 1000 – 10000 Litres per hour

Impurities removed: Dissolve salts, hardness, bacteria & viruses, pesticides, suspended solids.

Features: SS304 skid mounted system equipped with NSF certified Pentek™ cartridges, NOCCHI™ high pressure pump and ASME certified Codeline™ housing.

Applications: Drinking water treatment, Industrial water treatment.

CIRO- Commercial and Institutional Reverse Osmosis System

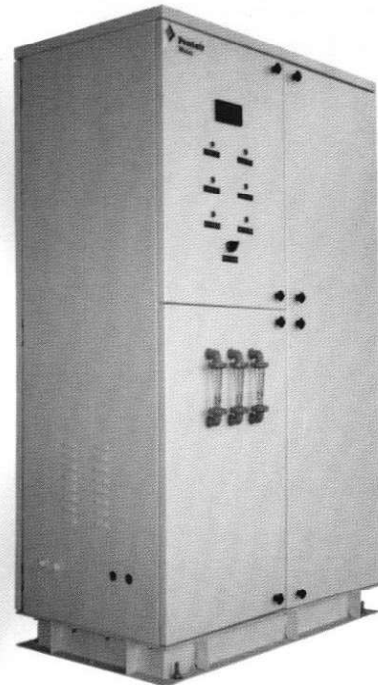
Commercial and Institutional RO systems (CIRO) are cabinet mounted water treatment systems which can provide 100 to 500 litres per hour of safe, clean drinking water. These are ideal for end use application areas like offices and factories, hotels and restaurants and even for industrial water treatment.

Flow capacity: 100 – 500 Litres per hour

Impurities removed: Dissolve salts, hardness, bacteria & viruses, pesticides and suspended solids.

Features: MS powder coated cabinet mounted system equipped with NSF certified Pentek™ cartridges, NOCCHI™ high pressure pump and Pentair pressure vessels.

Applications: Drinking water treatment, Industrial water treatment.



PenSOFT - Pentair Softening System

These are standard water softening plants comprising world-class fibre reinforced plastic vessels manufactured by Pentair at their factory in Goa. Fleck automatic multi-port valves ensure that the operating system is fully automated. The system comes with a brine tank which is required for the resin regeneration process. Pentair softening systems are available in capacities ranging from 1,000 to 10,000 litres per hour.

Flow capacity: 1,000 – 10,000 Litres per hour

Impurities removed: Hardness.

Mode of operation: Automatic.

Features: Made with Structural™ fibreglass reinforced plastic vessel & world class automatic Fleck™ valve.

Applications: Water softening, Pretreatment of RO.





PenFE- Pentair Iron Removal System

These are special application filters to reduce iron content in the water. The system comprises Structural FRP vessels which contain the iron absorbent media and automatic multiport Fleck valves. The operating system is automatic and no chemicals are required for media regeneration. These standard systems are available in capacities ranging from 500 to 10,000 litres per hour.

Flow capacity: 500 – 10,000 Litres per hour

Impurity removed: Iron.

Mode of operation: Automatic.

Features: Made with Structural™ fibreglass reinforced plastic vessel & world class automatic Fleck™ valve.

Applications: Filtration plant to reduce iron. Pretreatment of RO, UF, NF and softeners.

PenCARB - Pentair Activated Carbon Filter system

Pentair ACF systems comprise Structural FRP vessels and Fleck multiport valves. These systems are typically used for removal of chlorine, colour, odour and for improving the taste of water. Standard ACF filters are available in capacities ranging from 500 to 10,000 litres per hour.

Flow capacity: 500 – 10,000 Litres per hour

Impurities removed: Chlorine, colour, organics and bad taste

Mode of operation: Automatic.

Features: Made with Structural™ fibreglass reinforced plastic vessel & world class automatic Fleck™ valve.

Applications: Dechlorination, Filtration plant to improve water taste, Pretreatment of RO, UF, NF and softeners.



PenFIL- Pentair Pressure Sand Filter System

Basic pressure sand filter systems which comprise Structural FRP tanks and operate through automatic multiport Fleck valves. Pentair PSF systems are widely used to remove suspended solids and remove the turbidity in water. Standard systems are available in capacities ranging from 500 to 10,000 litres per hour.

Flow capacity: 500 – 10,000 Litres per hour

Impurity removed: Suspended solids

Mode of operation: Automatic.

Features: Made with Structural™ fibreglass reinforced plastic vessel & world class automatic Fleck™ valve.

Applications: Filtration plant to reduce turbidity. Pretreatment of RO, UF, NF and softeners.

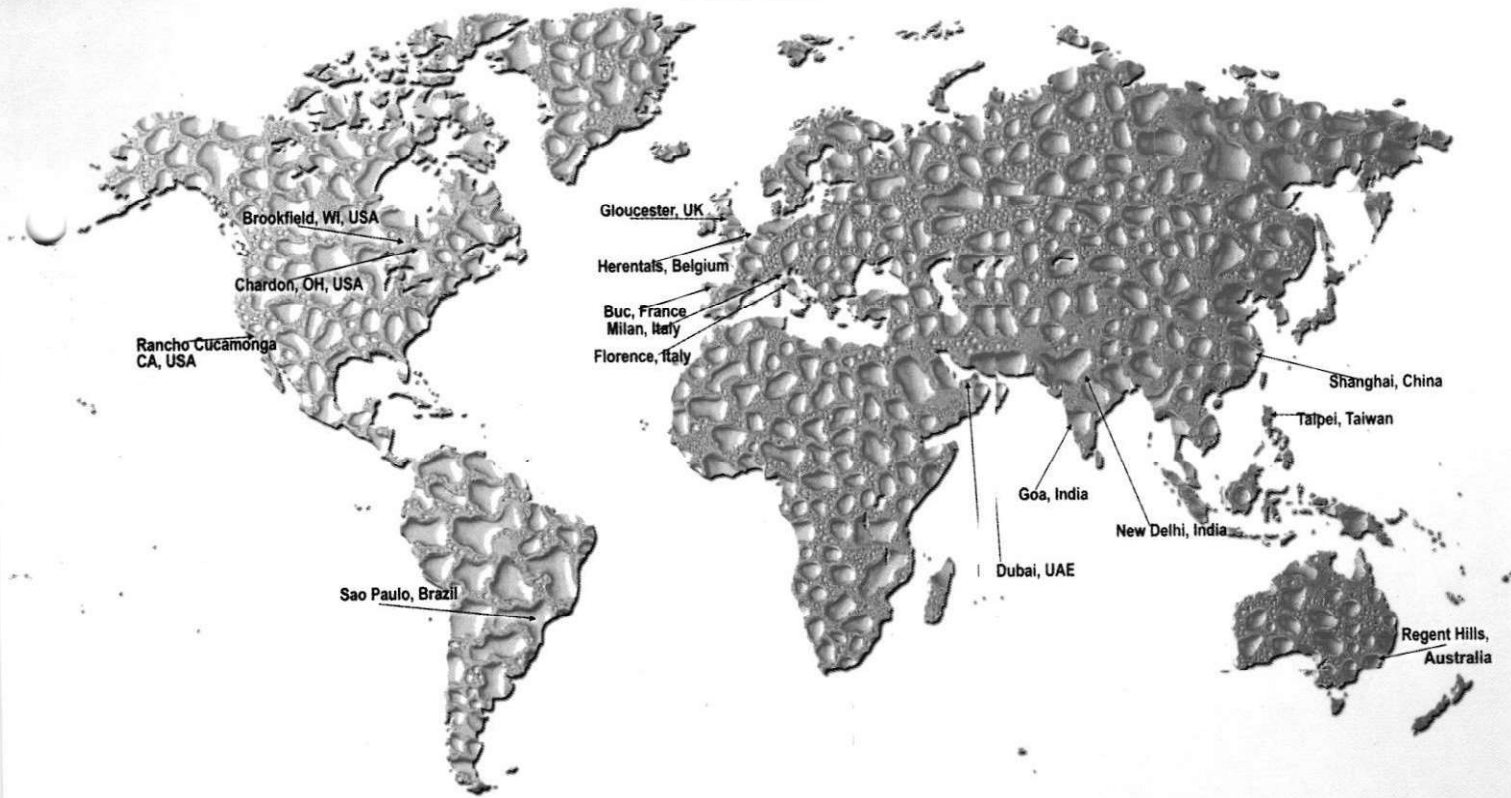


Standard Pentair Systems have been successfully installed in various locations in the country. The installations are spread across industries like textiles, pharmaceuticals and food & beverages. Individual establishments like hospitals, schools & colleges, shopping complexes, embassies, hotels, farm houses, armed forces, railway stations, airports, offices and factories are among our satisfied customers. Typical installations usually include standard RO systems , softening systems and other filter based water treatment systems.

Dedicated teams of Pentair Service and Installation engineers ensure that all systems are installed as per standard norms and function smoothly thereafter.

At Pentair providing "Safe Clean Water" is not just our credo it is a way of life.

PENTAIR WORLD



Pentair systems use the following Pentair components:



International certifications held by Pentair Water India



AUTHORIZED USER OF
ASME CODE SYMBOL

ASME: CodeLine®
membrane housings
conform to the highest
ASME standards with respect
to production, fabrication,
inspection and testing
methods.



NSF 61: US recognised
standard for
components which
contact drinking water to
ensure that they do not
contribute contaminants
that could cause adverse
health effects.



ISO: The ISO 9001:2000
standard is recognized
internationally for
promoting consistent
quality practices in
manufacturing.



CE: European Conformity
Marking (CE Mark)
indicates conformity with
the essential health and
safety requirements
set out in European
Directives.

Member of WQA



Only authentic Pentair products promise 100% water treatment. Beware of imitation.



Pentair Water

Safe, Clean Water

Pentair Water India Private Limited:

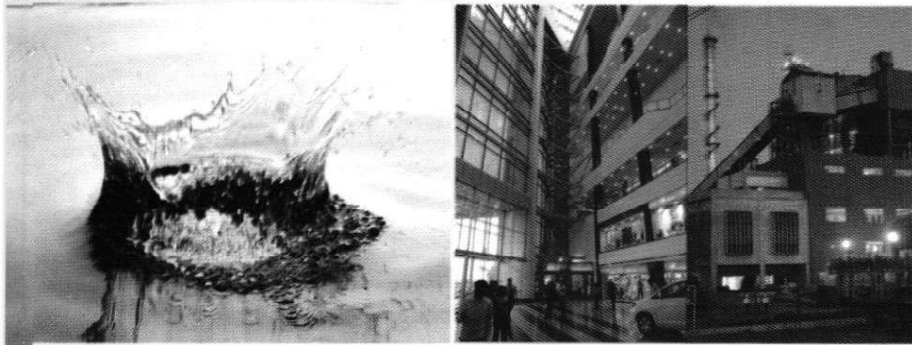
Corporate Office : A-25, Mohan Co-operative Industrial Estate, Mathura Road, New Delhi - 110 044. Tel.: +91-11-66118800, Fax : +91-11-66118822

Manufacturing Facility : L/52-55, Verna Industrial Estate, Goa - 403 722. Tel.: +91-832-2883300, Fax: +91-832-2883312

Regional Sales Offices: Ahmedabad: 9377958060, Chennai: 9840048425, Goa: 9373032721,

Kolkata: 9331253501, Mumbai: 9324843671, Bangalore: 9342133391

Email: indiacustomer@pentairwater.com **Website:** www.pentairwater.com / www.pentairwaterindia.com



PENTAIR - A GLOBAL LEADER

Headquartered in Minnesota in USA with operations across 50 locations in North America, Europe, Asia & Australia, Pentair Inc is a global leader in providing innovative products & systems used in the movement, treatment & storage of water. Pentair employs more than 15000 employees and has an annual sales turnover of over US\$ 3 billion. Pentair's portfolio consists of more than 30 brands which are leaders in their respective categories. Our vision is to provide "Safe Clean Water" solutions to all our customers while focusing on individual requirements.

PENTAIR WATER INDIA

Pentair has been in India since 1998, and has set up a state-of-the-art manufacturing facility in Goa. In India, Pentair is headquartered in Delhi with an extensive network of sales offices in Mumbai, Ahmedabad, Kolkata, Bangalore, Hyderabad and Chennai.

Today Pentair Water India is the largest manufacturer and distributor of water treatment components in the country. Our world class water treatment components manufactured in India are being used in some of the world's largest and most prestigious water treatment projects. With its innovative technologies, Pentair Water India provides relevant, practical and cost effective water treatment solutions for industrial, commercial and residential applications. Pentair Water India is now set to take its rightful place in the growing industrial / commercial water treatment systems market.

PENTAIR WATER TREATMENT SYSTEMS

Pentair is already established as a world class component manufacturer and is currently supplying components to most of the big projects in India and across the globe thus assuring quality for customers. As a manufacturer of Water Treatment Systems, Pentair's greatest advantage is that it is the only system integrator which manufactures all the critical components going into the system. Critical components like Codeline membrane housings and FRP & composite tanks are being manufactured to world class standards by Pentair at its plant in Goa. All Pentair Systems comprise Pentair components whose quality is guaranteed by international certifications like ASME, NSF, CE and ISO 9001.

Pentair Water India's current focus is on providing world class standard systems for a growing number of discerning customers not willing to compromise on quality. It has a large range of standard water treatment systems to cater to a wide range of end applications and become a single point solutions provider for all customers looking for answers for their water related problems. Pentair's global presence, experience and sourcing capabilities allow it to bring in superior quality and technology right to the doorstep of its customers while Pentair Water India's team of dedicated after sales service professionals ensure proper maintenance, service and follow up.

PENTAIR RANGE OF STANDARD SYSTEMS

The following systems are available as standard configurations with capacities ranging from 100 litres per hour to 10000 litres per hour.

1. PenROS - Pentair Reverse Osmosis System
2. CIRO- Commercial and Institutional Reverse Osmosis System
3. PenSOFT - Pentair Softening System
4. PenFE- Pentair Iron Removal System
5. PenCARB - Pentair Activated Carbon Filter system
6. PenFIL- Pentair Pressure Sand Filter System