



# MAHARAJA AGRASEN COLLEGE

University of Delhi  
VASUNDHARA ENCLAVE, DEIHI-II0096

10.12.2015

## TENDER FOR S.I.C. of R.O. SYSTEM

1. Sealed quotations are invited for procurement, installation, testing and commissioning of integrated R.O. System with a capacity of 250 Ltr/hour as per detailed mentioned herein as Annexure-I in the college premises at Vasundhra Enclave. Vendors with experience of at least five years in undertaking similar works should apply.
2. Vendors are required to send their quotations in 2 separate envelopes marked as "Technical" and "Financial". The Technical Bid should contain the company profile, experience of work in similar field should be atleast during past 3 years, copy of balance sheet for past 3 years. Both the envelopes should be sealed and placed in a larger sealed envelope and marked as College Quotation.
3. The financial Bid shall be opened only if the Technical Bid is found satisfactory by the relevant committee.
4. The quotation complete in all respects should reach the college by 28<sup>th</sup> Dec, 2015. The college reserves its right not to award contract to any vendor.
5. **The bidder may be required to give a presentation before the college committee for consideration of the Technical Bid. The decision of the committee shall be final and financial bid of only qualified bidder shall be considered for award of work.**
6. Successful vendor may be called for demo of the work to be undertaken before awarding the contract
7. The service provider must attach return of Income Tax, Service Tax, EPF, ESI for the last 3 years.

Dr. Sunil Sonchi  
(Principal)

The treatment scheme should comprise of a **Pre-Treatment Module** followed by the **Reverse Osmosis Module** and any **Post Treatment Module** as per the quality of water to be treated.

Modules	Required Treatment Scheme		SCOPE
Pre- Treatment Module	Raw water Tank		By Client
	Raw Water Pump		By Supplier
	Dual Media Filter		By Supplier
			By Supplier
			By Supplier
	Micron Cartridge Filter 5 $\mu$		By Supplier
RO Module	RO Skid		By Supplier ss
	High Pressure Pump		By Supplier
	RO Membranes Block		By Supplier
Post- Treatment Module	RO Water Storage Tank		
	Make sintex 1000 lt		By supplier
Other Module	Chemical Cleaning System		By Supplier

<b>Section 1</b>					
------------------	--	--	--	--	--

S. No.	Description	Unit	Data
<b>A</b>	<b>Raw Water Storage Tank</b>		<b>By Client</b>
1	Quantity	No	1
2	Capacity	m3	2
3	Material of Construction		HDPE
4	Make		Sintex
<b>B</b>	<b>Raw Water/CIP/ Backwash Pump</b>		
1	Quantity	no.	1
2	Flow	m3/hr	1.5
3	Head	M	30
4	Type		Horizontal Centrifugal
5	Material of Impeller		CI
6	Make		Kirloskar C.RI
<b>C</b>	<b>Dual Media Filter</b>		FRP Make Pentair water
1	Quantity	no.	1
2	Feed Flow	m3/h	12
3	Vessel Diameter	Mm	12
4	Vessel Height	Mm	1300
5	Media Type		Anthracite & Sand
<b>D</b>	<b>Anti Scalant Dosing System</b>		
1	Quantity	no.	1
2	Dosing Pump Flow	Lph	0-5
3	Pump Material		PP
4	Pump Make		SEKO
5	Dosing Tank Capacity	L	100
6	Tank Material		HDPE
7	Tank make		Sheetal/Sintex
<b>E</b>	<b>Micron Cartridge Filter</b>		
1	Quantity	no.	1 MAKE Pentair water
2	Flow	m3/h	1.5
3	Filtration Rating	μ	5
4	Filter Material		PP
5	Filter Size	Inch	20
6	Housing Material		PVC
7	Housing Size	Inch	20
<b>F</b>	<b>High Pressure Pump</b>		
1	Quantity	no.	1
2	Flow	m3/h	1.5
3	Head	M	140
4	Type		Vertical Centrifugal
5	Material of Impeller		SS
6	Make		c.r.i

<b>Section 2</b>			
------------------	--	--	--

S. No.	Description	Unit	Data
<b>G</b>	<b>RO Unit</b>		
1	Membranes	nos.	1
2	Membrane Dia	Inch	4
3	Membrane Length	Inch	40
4	Material		TFC, Polyamide
5	Make		Hydranautics/Eqv.
6	RO Vessels	nos.	1
7	Rating	psi	250
8	Material		FRP
9	Vessel Dia	Inch	4.0
10	Vessel Length	m	1
<b>H</b>	<b>Chemical Cleaning System</b>		
1	Cleaning Tank	no.	1
2	Capacity of Tank	L	50
3	Material		HDPE
4	Tank Make		Sheetal/Sintex
5	Cleaning Pump		Raw Water Pump to Be Used
6	MCF		Pretreatment MCF to be Used
<b>I</b>	<b>Piping &amp; Valve</b>		
1	Low Pressure Piping		uPVC
2	High Pressure Piping		uPVC
<b>J</b>	<b>Instruments on RO Systems</b>		
1	Pressure Gauge	No	4
2	Pressure Switch High & Low	No	2
3	Flow Indicators	No	2
		No	
<b>K</b>	<b>Control Panel</b>		Supplier shall supply control panel. Client would provide for termination of power cable up to our control panel. We shall supply power to individual drives and cabling from our panels to drive.
<b>L</b>	<b>Product Water Storage Tank</b>		<b>By Client</b>
1	Quantity	no	1
2	Capacity	m3	2
3	Material of Construction		HDPE/SS 304 or as per requirement

R.O storage tank sintex 1000 lt should be included in this price & all pipe fitting & Automation work R.O to storage tank fully automatic work with pressure pump 0.5 hp make gundfos pump systems & R.O systems fiver sit covering installation complete.