

**HIMACHAL PRADESH
GENERAL INDUSTRIES CORPORATION LIMITED,
Himrus Building, Circular Road
SHIMLA-171 001**


Pur-21/Gen/V/II

03/01/2018

**SHORT TERM TENDER NOTICE FOR SUPPLY OF COMPLETE DESIGN, INSTALLATION
AND COMMISSIONING OF WATER DE-MINERALIZATION PLANT**

Sealed tenders are hereby invited from the reputed manufacturers of the DM water plant and equipments confirming to the stated specifications on F.O.R. destination basis and inclusive of all duties/taxes for supply to Country Liquor Bottling Plant, Mehatpur Distt.-Una, 174315 HP so as to reach at Country Liquor Bottling Plant, Mehatpur Distt.-Una, 174315 HP on or before **10-01-2018** up to 3.00 PM along with the required earnest money mentioned in the shape of demand draft in favour of the Managing Director HP General Industries Corporation Ltd., Shimla. The detailed terms & conditions and users/systems requirements with specifications can be collected from this office on any working day or can be seen on our website www.hpgic.co.in The tenders will be opened on the same day at 3.30 PM in the presence of tenderers or their authorized representatives at Country Liquor Bottling Plant, Mehatpur Distt.-Una, 174315 Himachal Pradesh. If required, negotiations will be held with L-1 party on the same date at the discretion of the Corporation. The undersigned reserves the right to accept/reject any/all tenders without assigning any reason. The details of the machinery and equipments and its specifications are given as under:

S.N	Description of the Machines	Qty. Nos.	in	Earnest Money (Rs. In lacs)
1	Supply of complete design, Installation and commissioning of 8 M ³ / Hrs (8000 LPH) Water RO based De-mineralization Plant with all accessories required for operation of plant.	1		0.25


Capt. J.M Pathania, IAS
MANAGING DIRECTOR

**HIMACHAL PRADESH
GENERAL INDUSTRIES CORPORATION LIMITED,
Himrus Building, Circular Road
SHIMLA-171 001**

Pur-21/2017- 18

01/01/2018

**TERMS & CONDITIONS FOR SUPPLY OF DESIGN, SUPPLY, INSTALLATION AND
COMMISSIONING OF WATER DE-MINERALIZATION PLANT AT CLBP MEHATPUR**

1.	Quantity	Complete Design, Supply, Installation and commissioning of 8 M ³ / Hrs (8000 LPH) Water RO based De-mineralization Plant with all accessories required for operation of plant,	01 No
2.	Technical Specifications	D.M. Water Plant Range	8,000 LPH
		MOC	FRP or SS Series
		Operating Pressure	2-3 kg
		Pre- filter media	Sand filter
		Resin Type	CATION, ANION
		Output per charging Cycle (OBR)	80,000-100,000 Liters
		Regenerant	HCL, Caustic Soda
		Regeneration Tank	FRP-PP
		Piping	PVC or MS
		Conductivity Meter	To show conductivity or TDS
		PH meter	To show ph of output water
3.	Scope of Supply	<p>(a) The scope of supply shall include all equipment and accessories required to make the Demineralization plant fully functional on being connected to power and water sources.</p> <p>(b) Demineralization plant should be easy to operate and easy to handle involving less maintenance cost.</p> <p>(c) The scope of supply shall also include all related, structure and structural shed, electrical, civil and other allied works required for erection, installation and commissioning of the DM plant.</p> <p>(d) An itemized break-up of the scope of work offered indicating cost of each item shall be furnished in the offer for information of the purchaser.</p> <p>(e) A suitable electric motor with pump for supply of raw water should be provided with DM water part. Specification, make, model etc. of electric motor & pump should be mentioned in the offer.</p> <p>(f) Demineralization plant should have ultra-filtration based on advanced technology.</p> <p>(g) The DM water plant should consist of acid/alkali proof pressure vessel with</p>	

Managing Director
H.P.G.I.C. Ltd.
Shimla-171001

internal fittings and initial charge of cation and anion exchanger, set of regeneration equipment, hydraulic ejectors, acid and alkali tanks conductivity meter to monitor treated water quality etc.

- (h) During the service cycle, the cation resin of the cation exchanger must be capable of replacing the undesirable cat-ions (calcium, magnesium, sodium etc.) in the raw water. Similarly, the an-ion resin of the anion exchanger must have the capability of replacing the undesirable anions (sulphates, chlorides, nitrates etc.)
- (i) The unit must provide FRP/Structural pressure vessels, valves (non-corrosive) pipe lines (non-corrosive)
- (j) All the pressure vessels and valve, prior to installation, must be tested in accordance with the national and international standards.
- (k) Chemicals dosing tanks (non-corrosive) should be provided with DM water plant.
- (l) During regeneration cycle, acid and alkali provided must be in adequate quantity and of appropriate concentration so that the exchange capabilities of the resins of the ion exchangers are restored in minimum time.
- (m) The complete regeneration process must be completed within one hour.
- (n) The first column should be that of up flow filter for above water treatment equipment. It should be of noncorrosive pressure vessel complete with internal distribution and collection system.
- (o) The up flow filter should contain as under- (1) One set of non-corrosive frontal pipe work with valves (2) One set of inlet and outlet pressure gauges (3) One charge of filter media
- (p) All vessel, pipes and fitting must be non-corrosive and as per national or international standard and manufactured by reputed company.
- (q) Required and suitable control panel (powder coated) should be provided by the tenderer. The control panel shall have gauges for indicating pressures, and, water level in tanks.
- (r) External LCD panel showing the conductivity, pH and TDS of the demineralized must be provided.
- (s) All electrical equipments, fittings etc. used should be of reputed company like Siemens/Havels/L&T/Crompton Greaves etc.
- (t) The plant and its accessories shall be amenable to safety of the equipment and operator at all times. The following Safety features shall necessarily be provided: i) Shut down in case of faulty sequence of operation. ii) Plant shall automatically shut down in the event of lack of water. iii) Safety valves. iv) Power On/Off indicator. v) Preventive measures during Under/Over voltage and Overloaded conditions. vi) Message display provides continuous read out of system status. vii) Flow display providing information on flow rates, throughput and number of regeneration. viii) Audible alarm and 'no flow' alarm circuit.


Managing Director
H.P.G.I.C. Ltd.
Shimla-171001

		(u) One set of tools with each set for maintenance of the equipment and the same shall be furnished in the offer
4.	Optional accessories	Any other accessory which can improve productivity, maintainability, and cleaning quality shall be quoted separately bringing out its advantages and limitations. Price of these accessories shall however not be included in the basic price of the plant.
5.	General	a) Any other item, which the manufacturer considers desirable or essential for safety and operation of the equipment, shall be explained in the offer. b) eye Bolt for easy handling. c) any other
6.	Training	Technical experts of manufacturers during commissioning of Plant should fully & adequately train operators/maintenance staff nominated. Commissioning and Proving Test Erection & commissioning of the equipments will be done under firm's supervision. i) The supplier or his agent would be required to carry out a joint check at the consignee's end, along with the consignee, before unpacking is done, to avoid subsequent complaints regarding short shipment/transit damages. It is necessary that this joint inspection be done immediately on receipt of the plant by consignee to avoid commissioning delays due to shortages/transit damages. ii) Commissioning of plant would be done under the supervision/direction of firm's Engineers. iii) The supplier shall arrange commissioning of the plant at CLBP Mehatpur premises on receiving a call from the consignee within 15 days. Adequate number of teams of technical experts shall be made available by you so that the commissioning delays are eliminated. iv) The plant performance shall be demonstrated by supplier or his agent after successful commissioning at consignee's works for a period of two 8 hrs. shifts. Thereafter the plant performance shall be watched by the consignee for a period of one month before the final test certificate is issued.
7.	Rate	The Rates should be quoted inclusive of all taxes on the F.O.R basis at Country Liquor Bottling Plant, Mehatpur, Distt-UNA(HP). Rates should be quoted indicating the cost, export pass fee/excise duty, import fee, GST, insurance and freight, loading, unloading etc and the rate quoted shall be remain firm during currency of this supply contract .If there is any increase in statutory duties and taxes by the concerned authorities, that will be borne by the supplier. Technical specification should be submitted separately along with tender.
8.	Supply Schedule	You will Design supply, erect & commission the DM Water Plant of 8000 LPH output capacity within one month of the receipt of the supply order. All accessories including wires, cables, lugs, thimbles, ties etcetera required at the time of commissioning will be arranged by supplier. Successful bidder must submit all documents/certificates related to DM plant along with supply of the complete system.
9.	Payment	i) After satisfactory inspection report by the committee members of CLBP Mehatpur at manufacture site before dispatch, 30% payment will be released on receipt of the material at site. ii) 30% payment will be released by Manager Incharge CLBP Mehatpur after complete erection of the DM water system.


 Managing Director
 H.P.C.L. Ltd.
 Shimla-171004

		iii) 30% will be released after trial and commissioning, 10% will be released after successful running of the DM water Plant.
10.	Insurance	Insurance of material in transit shall be arranged by the supplier at their own cost on F.O.R. rate.
11.	Security Deposit	The successful tenderer will have to deposit security amount of Rs. 25,000/- (twenty five thousand) for faithful execution of the contract.
12.	Earnest Money	The tender must be accompanied by required earnest money in the shape of bank draft of any scheduled bank/nationalized bank drawn in favour of HP General Industries Corporation Ltd, Shimla. The amount of earnest money shall not be accepted through 5Cheque under any circumstances.
13.	Fee	Rs. 500/- has to be deposited by way of Demand Draft in favour of MD HPGIC Shimla towards the cost of tender document which should be immediately enclosed with the Tender document.
14	Conditional tenders	Conditional tenders, tenders received without earnest money shall be not entertained.
15.	Authorized Signatory	Tender(s) shall only be signed by the authorized signatory along with the seal of the firm. However, the Corporation reserves the right to place the order in parts or as a whole to one or more tenderers.
16.	Obligations	It will not be obligatory on the part of the Corporation to purchase the entire quantity of the machinery items as per tender notice. The Corporation reserves the right to place order on one and more than one part.
17.	Negotiation	The negotiation, if required will be held with the L-1 supplier party after opening of the tender.
18.	Acceptance/ rejection	Managing Director of the Corporation reserve the right to accept/reject any/all tenders without assigning any reason.
19.	Accidental Losses	In case of accident in transit while transporting the machinery suppliers shall be responsible for making good the loss caused to plant and machinery and will supply the same in safe condition on F.O.R. destination i.e. Country Liquor Bottling Plant, Mehatpur Distt. Una H.P.
20.	Agreement	The supplier shall execute an agreement on stamp paper of Rs. 50/- with the Plant Manager, CLBP, Mehatpur immediately on receipt of supply order.
21.	Penalty	For failure to supply the De-Mineralization Plant within stipulated period as per schedule agreed to and for violation of any other terms & conditions, the security shall be forfeited. In case, any purchases are required to be made from alternate sources necessitated due to failure of the supplier to erect/supply the machinery as per schedule given, the amount of difference of rates shall be recoverable from the

Managing Director
H.P.G.I.C. Ltd.

		supplier.
22.	Arbitration	In case of Any dispute the matter will be subject to adjudication under Arbitration and Reconciliation act 1996 and the Secretary(Industries) to the Government of Himachal Pradesh will be the sole arbitrator to decide the issue and the decision of the Arbitrator will be binding on both the parties
23.	Disputes	All disputes shall be settled within the jurisdiction of courts at Shimla.
24.	Force majeure	The terms of this agreement are subject to the standard force majeure conditions of strikes/lockouts in HP CLBP Plant, floods, earthquake, riots etc.
25.	Signature and Acknowledgement	Each page of tender document terms should invariably signed by the supplier himself/herself or through His/Her authorized representative which should be supplemented by authority letter in favour of Authorized representative.

Required parameters for RO based DM water

Sr. No.	Tests	Result
1	Colour	Clear
2	Odour	NIL
3	Taste	Agreeable.
4	PH Value	6.7 to 7.0
5	Turbidity, NTU	Nil
6	TDS, mg/l	<SPPM
7	Total Hardness(CaCo ₃)mg/l	<SPPM
8	Residual Free Chlorine mg/l	Nil


Capt. J.M. Pathania, IAS
MANAGING DIRECTOR

TEST REPORT

CLIENT: HPGC COUNTRY LOUVER BOTTLING PLANT (INDIA)	PROJECT: HPGC COUNTRY LOUVER BOTTLING PLANT (INDIA)	DATE: 15/08/2014
ANALYST: M/S. S. S. S. S.	SAMPLE: SEWED SAFFLUT WATER	REF: 15/08/2014
TESTING: M/S. S. S. S. S.	TEST REF. NO: HPGC/COUNTRY LOUVER BOTTLING PLANT (INDIA)	

ID- 1401040095

Page 1 of 2

TESTS FOR DRINKING WATER AS PER IS:10500-1991

S.No	TESTS	RESULTS	LIMITS (MAX)		PROTOCOL
			DESIRABLE	EXTENDED	
1	Colour, Hazen units	<5.0	5	25	IS: 3025 (Pt-4) 1983
2	Odour	Unobjectionable	Unobjectionable		IS: 3025 (Pt-5) 1983
3	Taste	Acceptable	Acceptable		IS: 3025 (Pt-6) 1984
4	pH value	7.30	6.50 to 8.5		IS: 3025 (Pt-11) 1984
5	Turbidity, NTU	<1.0	<0		IS: 3025 (Pt-10) 1984
6	Total Dissolved Solids, mg/l	388	500	2000	IS: 3025 (Pt-16) 1984
7	Total Hardness (as CaCO ₃), mg/l	344	300	600	IS: 3025 (Pt-21) 1983
8	Residual Free Chlorine, mg/l	Nil	0.2(Min) When Chlorinated		IS: 3025 (Pt-26) 1986
9	Chlorides (as Cl ⁻), mg/l	45.30	250	1000	IS: 3025 (Pt-32) 1986
10	Sulphate (as SO ₄ ²⁻), mg/l	26.85	200	400	IS: 3025 (Pt-24) 1986
11	Nitrate (as NO ₃ ⁻), mg/l	0.16	45	100	APHA 4500-NO ₃ -B
12	Total Iron (as Fe), mg/l	0.04	0.3	1.0	IS: 3025 (Pt-53) 2003
13	Fluorides (F ⁻), mg/l	0.24	1.0	1.5	IS: 3025 (Pt-60) 2008
14	Manganese (as Mn), mg/l	<0.01	0.1	0.3	APHA-3500-Mn-B
15	Copper (as Cu), mg/l	<0.01	0.05	1.5	AAS / ICP
16	Selenium (Se), mg/l	<0.01	0.01		AAS / ICP
17	Chromium (as Cr), mg/l		0.05		APHA 3500-Cr-B

Cont



SAL

[Signature]
Authorized Signatory

CHEM - 082676

Subject to Terms & Conditions Undertaken

TEST REPORT

Client To: HPGIC COUNTRY LIQUOR BOTTLING PLANT (UNA)	Report No: 1401040095	Date: 10 Jun 2014
Sample Description: GWT 3 (MPL) - WATER		OUR: 04 Jun 2014
Client Name: HPGIC	Your Ref No: GPR/C.C.B/LAB/201/DT/03/01/2014	
Client Address: 011 5212367 MR G.C. MEED		

ID- 1401040095

Page 2 of 2

S.No	TESTS	RESULTS	LIMITS (MAX)		PROTOCOL
			DESIRABLE	EXTENDED	
18	Calcium (as Ca), mg/l	60.16	75	200	IS 3025(Pt 40)-1991
19	Magnesium (as Mg), mg/l	34.93	30	100	34 of IS 3025-1964
20	Phenolic Compounds (as C ₆ H ₅ OHT), mg/l	<0.001	0.001	0.002	APHA 5530-C
21	Mercury (as Hg), mg/l	<0.001	0.001	-	AAS / ICP
22	Cadmium (as Cd), mg/l	<0.01	0.01	-	AAS / ICP
23	Arsenic (as As), mg/l	<0.01	0.05	-	IS 3025(Pt-37)-1988
24	Cyanide (as CN), mg/l	<0.005	0.05	-	IS 3025 (Pt-27) 1985
25	Lead (as Pb), mg/l	<0.01	0.05	-	AAS / ICP
26	Zinc (as Zn), mg/l	<0.01	05	15	AAS / ICP
27	Anionic Detergent (as MBAS), mg/l	<0.01	0.2	1.0	APHA 5540-C
28	Alkalinity, mg/l	276.52	200	600	IS 3025 (Pt-23) 1985
29	Aluminium (as Al), mg/l	<0.01	0.03	0.2	APHA 3500-Al-D
30	Boron (as B), mg/l	0.70	-	5	APHA4500 B-C
31	Mineral Oil, mg/l	0.15	0.1	1.03	GC Method

Remark: The sample conforms to IS 10500-1991 for drinking water w.r.t. above tests in extended limits



[Signature]



[Signature]
Authorised Signatory

CHEM - 082677

NABL Accredited: BIS Cert. A-11 (IQA) MUM-1 (IQA) Approved
ISO 9001:2008, ISO 17025:2005, ISO 14001:2004 Certified Laboratory
10, Plot No. 10, Sector 10, Connaught Place, New Delhi-110028