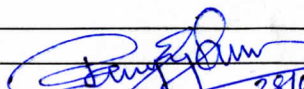


C/G/GO/2015/6698 T

TECHNICAL SPECIFICATION FOR WATER COOLER WITH UV BASED WATER PURIFIER (STORAGE CAP. 80 LITER)**(Material Code: HW8870011739)**

Sl. No.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED/TO BE CONFIRMED BY
1.0	Purpose:	Vendor to confirm
1.1	Integrated Storage type water Cooler Purifier (Combine unit Housing in same cabinet/body) is required for providing safe & hygienic water in BHEL Haridwar with the following specifications.	
2.0	Specifications General: Water storage tank capacity: 80 litres or more.	Vendor to confirm, Mention capacity
2.1	Cooling capacity with water outlet temp at 17 degree Celsius : minimum 60 litres/hr	Vendor to confirm & specify
2.2	Water tank should be of Hygienic stainless steel 304 or better having lockable tank lid with minimum 3 lever lock & proper rubber sealing for protection against entry of dust & insects	Vendor to confirm
2.3	Body Material: <i>Stainless steel (SS-304) or better</i>	Vendor to confirm
2.4	Thermal insulation of water tank: PUF material	Vendor to confirm
2.5	Compressor: Energy efficient Hermetically sealed compressor with suction gas cooled, equipped with over-load protector, relay & other accessories	Vendor to specify make of compressor
2.6	Condenser Fan: Propeller type (noiseless)	Make of condenser fan to be specify
2.7	Thermostat for controlling the water temperature to desired temperature	Vendor to confirm
2.8	Refrigerant: Non-CFC, Non Toxic, Non Inflammable, Eco-Friendly	Vendor to Mention
2.9	Input Power Supply: 230Volts +/- 10%, 50Hz, single phase AC supply with 15 Amps 3pin plug top & proper earth connection	Vendor to confirm
2.10	Running Current in Amps. (Max)	Vendor to specify
2.11	Power in Watts (Max)	Vendor to specify
2.12	Inlet Water connection: Inlet 1/2" BSP threaded connection with flexible pipe having female nuts on both ends. Water will be controlled by efficient float valve.	Vendor to note
2.13	Drain: The water outlet must be collected on the single piece moulded tray which must be connected with 1" BSP drain & overflow connection.	Vendor to note
2.14	Approximate External dimension	Vendor to specify
2.15	Total No. of Faucets: 02	Vendor to note
2.16	No. of Cold water Faucets: 1	Vendor to confirm
2.17	No. of Normal water Faucet: 1	Vendor to confirm
2.18	Minimum to Maximum water flow rate through the faucets in LPM at full tank cooling capacity: 0.75 - 1.0	Vendor to specify
2.19	UV auto shut OFF when unused	Vendor to specify
2.20	Power consumed by UV	Vendor to specify
3.0	BASIC REQUIREMENT	


 28/03/16
 Ranjay Kumar (Sr. Engr. - WEX/AC)

3.1	No. of stages of Integrated filter cum purifier on water cooler: 03 (three)	Vendor to confirm
3.2a	A) Pre-Filter- minimum 10" long 5 micron pre-filter removes all physical impurities in water B) Activated Carbon- minimum 10" long specially treated carbon block removes organic impurities like colour, odour & chlorine C) Ultra Violet Disinfection- Two separate minimum 8 (W) UV lamps, to be provided at the output of water cooler tank, just before the water cooler tap to give last point purification & to keep water free from all known water borne diseases.	Vendor to confirm & specify
3.2b	Provision of Pre-filter minimum 20" long near Integrated filter cum purifier water cooler, between BHEL water supply and input to the Integrated filter cum purifier water cooler.	Vendor to confirm
3.3	Electronic Eye: An in-built electronic monitoring system to ensure Complete Purification/monitor purification & indicate fault, if any. Electronic eye must be provided to monitor the purification process & stop the flow of water with the solenoid valve, if purification is inadequate.	Vendor to confirm
3.4	No. of Purifier circuit: 2	Vendor to confirm
3.5	Purifier fault indication (Buzzer) : 1 or more	Vendor to confirm
3.6	Visual controls (LEDs)	Vendor to confirm
3.7	Minimum Water input pressure in Kg/cm sq. available: 0.4 kg/cm^2	Vendor to specify
3.8	Maximum water input pressure in Kg/cm sq. available: 2.0 Kg/cm^2	Vendor to specify
3.9	Make: The Integrated water cooler cum Purifier shall be any standard/Reputed Branded make.	Vendor to specify make
3.10	Warranty: The Complete integrated water cooler cum purifier shall be covered under warranty for a period of 36 month from the date of commissioning.	Vendor to confirm
4.0	Installation, Commissioning & Proving of Equipment:	
4.1	The complete Equipment shall be supplied on TURNKEY Basis.	Vendor to confirm
4.2	Supplier/Vendor will be solely responsible for the Installation, commissioning and proving the equipment at BHEL works.	Vendor to confirm
4.3	All tools-tackles, consumables, etc required for Installation are to be arranged by the supplier.	Vendor to confirm
4.4	First fill consumable should be supplied with the equipment.	Vendor to confirm


 28/03/16
 Ranjay Kumar
 Sr. Engr. (WEX-AC)

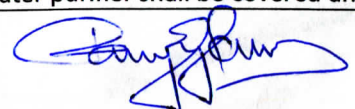
C/6160/2015/6699 T

Annexure-B

TECHNICAL SPECIFICATION FOR UV BASED WATER PURIFIER

(Material Code: HW8870011747)

Sl. No.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED/TO BE CONFIRMED BY
1.0	Purpose:	Vendor to confirm
1.1	UV based Water Purifier is required for providing safe & hygienic water in BHEL Haridwar with the following specifications.	
2.0	Specifications General: Minimum capacity of purification 1.2 Litre per minute.	Vendor to confirm, Mention capacity
2.1	UV auto shut OFF when unused	Vendor to specify
2.2	Power consumed by UV	Vendor to specify
2.3	No. of stages of Integrated filter cum purifier: 03	Vendor to confirm
2.4	A) Pre-Filter- minimum 10" long 5 micron pre-filter removes all physical impurities in water B) Activated Carbon- minimum 10" long specially treated carbon block removes organic impurities like colour, odour & chlorine. C) Ultra Violet Disinfection- Two separate minimum 8 (W) UV lamps, to be provided at the output of water cooler tank, just before the water cooler tap to give last point purification & to keep water free from all known water borne diseases.	Vendor to confirm & specify
2.5	Electronic Eye: An in-built electronic monitoring system to ensure Complete Purification/monitor purification & indicate fault, if any. Electronic eye must be provided to monitor the purification process & stop the flow of water with the solenoid valve, if purification is inadequate.	Vendor to confirm
2.6	Purifier fault indication (Buzzer) : 1 or more	Vendor to confirm
2.7	Visual controls (LEDs)	Vendor to confirm
2.8	Minimum Water input pressure in Kg/cm sq. available: 0.4 kg/cm ²	Vendor to specify
2.9	Maximum water input pressure in Kg/cm sq. available: 2.0 Kg/cm ²	Vendor to specify
2.10	Make: The UV based Water Purifier shall be any standard/Reputed Branded make.	Vendor to specify make
2.11	Warranty: The Complete water purifier shall be covered under warranty for a period of 36 month from the date	Vendor to confirm


Ranjay Kumar
Sr. Engr. (WEX-AC)

	of commissioning.	
3.0	Installation, Commissioning & Proving of Equipment:	
3.1	The complete Equipment shall be supplied on TURNKEY Basis.	Vendor to confirm
3.2	Supplier/Vendor will be solely responsible for the Installation, commissioning and proving the equipment at BHEL works.	Vendor to confirm
3.3	All tools-tackles, consumables, etc required for Installation are to be arranged by the supplier.	Vendor to confirm
3.4	First fill consumable should be supplied with the equipment.	Vendor to confirm

Ranjay Kumar
Sr. Engr. (WEX-AC)

C/6/60/ 2015/6699T

Annexure : C

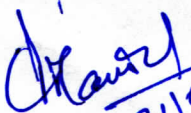
Pre-Qualification Criteria

(MPR No.: 20150976)

1. Vendors should be a Manufacturer of water cooler/UV based water purifier or their Authorized distributor/ dealer/franchise.
2. Authorized distributor/ dealer/franchise shall submit authorization letter along with tender.
3. Vendor shall submit copy of any one executed PO/Work Order for supply of water cooler/UV based water purifier to any Government Agency/ Public Sector Company/Private Sector Company.

1

28/03/16
Ranjay Kumar
Sr-Engr. (WEX-AC)

1

31/03/16