



महाराष्ट्र शासन

शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, सिंधुदुर्ग
Government Medical College & Hospital, Sindhudurg

Near Civil Hospital, A/P.Oras, Ta.-Kudal, Dist. Sindhudurg

Phone No.(02362 228355)

E-mail ID- deangmcsindhudurg@gmail.com

जा.क्र.शावैमवरुसि/ आर.ओ प्लांट /दरपत्रके/ १५० /२०२६

दि.१४/०२/२०२६

संस्थेच्या संकेतस्थळावरून दरपत्रके मागणी

शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, सिंधुदुर्ग या रुग्णालयाकरीता Water Treatment System For Haemodialysis R.O Plant या यंत्राच्या खरेदीकरीता दरपत्रके मागविण्यात येत आहेत. यंत्राचा सविस्तर तपशिल सोबत जोडण्यात आला आहे.

अटीव शर्ती-

- १) दरपत्रक भरणाऱ्या व्यक्तिकडे/संस्थेकडे पॅनकार्ड, सक्रिय असलेले दुकान कायदा परवाना, आधारकार्ड व राष्ट्रीयकृत बँकमध्ये सक्रिय असलेले बँक खाते आवश्यक आहे (सर्व कागदपत्रे स्वयं प्रमाणित स्वाक्षरी करण्यात यावीत).
- २) दरपत्रके ही जी.एस.टी रक्कमेसह द्यावीत.
- ३) यंत्र हे ISI मानांकित असावे.
- ४) यंत्रास वॉरंटी असणे आवश्यक आहे.
- ५) यंत्र पुरवठा आदेश दिल्यानंतर स्वखर्चाने या कार्यालयास पुरविणे बंधनकारक राहिल.
- ६) दरपत्रक दिलेल्या नमुन्यात सीलबंद लिफाफ्यावर खालीलप्रमाणे लिहावे.
लिफाफ्यावर दरपत्रक देणाऱ्याचे व्यक्तीचे/संस्थेचे नाव नमुद करुन " आर.ओ.प्लांट खरेदीबाबत.." असा उल्लेख करुन दरपत्रकाचे अंतिम दिनांक १५/०२/२०२६ असे नमुद करावे.
- ७) सदर लिफाफा दिनांक: १५/०२/२०२६ रोजी सायंकाळी ५.०० वाजेपर्यंत अधिष्ठाता शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, सिंधुदुर्ग यांच्या कार्यालयात कार्यालयीन वेळेत पोस्टाने किंवा हस्तपोच सादर करावे. उशीरा प्राप्त होणाऱ्या अर्जांचा विचार केला जाणार नाही. याची नोंद घ्यावी. स्थानिकांना प्राधान्य देण्यात येईल.
- ८) कोणताही लिफाफा स्वीकारणे अथवा नाकारणे, तसेच सदरची प्रक्रिया रद्द करण्याचे सर्व अधिकार अधिष्ठाता, शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, सिंधुदुर्ग यांना राहतील.



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डॉ. अनंत डवंगे

अधिष्ठाता

शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, सिंधुदुर्ग.

महाविद्यालय व रुग्णालय

सिंधुदुर्ग.

प्रति,

श्री. विलास राठोड, उच्चश्रेणी लघुलेखक, उपरोक्त नमुद स्टेशनरी साहित्य खरेदीबाबत दरपत्रके मागविण्याबाबतचा मजकूर या संस्थेच्या संकेतस्थळावर दिनांक: १४/०२/२०२६ रोजी प्रसिध्द करण्यात यावा.



Specifications for Water Treatment System for Haemodialysis

1.	<u>Description of Function</u> 1.1. Water Treatment system is required to produce pure water for dialysis.
2.	<u>Operational Requirements</u> 2.1 The system should be sufficient for online operation of 15-20 machines with pure water capacity of 1000-1200 litres per hour.
3.	<u>Technical Specifications</u> 3.1 The system should comprise of pre treatment modules such as sand filter, activated carbon filter, water softener, 5 micron particular filter and deionizer before the reverse osmosis unit and post of R.O. Bacterial Filters (1 Micron) and UV light disinfection for yielding high purity water. 3.2 All pre treatment modules should have programmable back wash and generation facility. These stages should be designed to handle water flow of 1500-2000 litres / hour. 3.3 R.O Unit should be compact in sleek cabinet, housing two R.O. membranes of equal output connected in parallel for being used alternately every two-three hours by automated valves, a high pressure pump and bypass mechanism. The control unit should be microprocessor / microcontroller controlled. A5 micron filter should protect the membrane. 3.4 The entire unit should have adequate monitoring of input and output water conductivity, feed water pressure and rejection flow rate. 3.5 The system should have protection alarm against low feed water, high output conductivity and high temperature of pump motor. 3.6 The system should include online water distribution to 15-20 machines in loop so that the unused water may be fed back to treatment unit, thus saving on water rejection. 3.7 The unit should have programmable and automatic rinsing/flushing facility, at regular intervals, when system is not in use, to prevent drying filter media and R.O. Membrane. 3.8 The system should have programmable disinfection/ de-calcification facility using commonly available disinfection/decalcification chemicals.

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3.9 The system should accept feed water with TDS up to 1500mg/ litre and hardness up to 1 dH with 0.5 % rejection of TDS & hardness and 99% rejection of bacterial and endotoxins.

3.10 The unit should be designed for maximum saving of raw water with efficiency of 60-70%.

3.11 The water distribution loop. Booster pump and storage water tank should be made up of stainless steel. Storage water tank should have capacity of at least 5000 litres with water level controller, outlet valves and easy cleaning provisions.

4. **System Configuration Accessories, Spares and Consumables**

4.1. System as specified-

4.2 The vendor should provide a system on a turnkey basis including all civil and electrical works including two booster pumps in parallel for providing water delivery. The vendor should inspect the site for this purpose.

4.3 The vendor should supply adequate filter cartridges, media or resins to last for at least 3 years. The vendor may visit the site and check the water quality.

4.4 The vendor should provide preventive maintenance which includes chemical checks, bacterial and pyrogen checks periodically during the warranty period.

5 **Environmental Factors**

5.1 The unit shall be capable of being stored continuously in ambient temperature of 0-5 deg. C relative humidity of 15 - 90%

5.2 The unit shall be capable of operating continuously in ambient temperature of 10 - 40 deg C and relative humidity of 15 - 90 %.

5.3 The hospital will provide vacant space, water outlets and electrical points as specified by the vendor. Other plumbing works and civil works will have to be undertaken by the bidder. Vendor should ensure that there is no environmental damage of any kind takes place.

6 **Power Supply**

6.1 Power input: 220-240V/50 Hz AC Single phase or 380-400V AC 50 Hz Three phase fitted with appropriate Indian plugs and sockets.

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Standard, Safety and Training

7.1. Output water quality should match AAMI (Association for the Advancement of Medical Instrument) standards for Haemodialysis Water (Al < 0.01 mg/L; Ca < 2 mg/L; BACTERIA < 200 CFU/ml)

8 Documentation

8.1 User / Technical/ Maintenance manuals to be supplied in English.

8.2 Certificate of calibration and inspection.

8.3 List of Equipments available for providing calibration and routine Preventive Maintenance Support, as per manufacturer documentation in service/ technical manual.

8.4 List of important spare parts and accessories with their part number and costing.

8.5 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist.

The job description of the hospital technician and company engineer should be clearly spelt out.

8.6 User list to be provided with performance certificate.



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