

**NTPC LTD**  
**EOC, NOIDA**

**Sub: Qualifying Requirement for Vendor Enlistment for Supply of Dissolved Oxygen Analyser (Optical type)**

A)	MEG DETAILS		
	1.0	MEG NO.	94 MEG-02
	2.0	MEG DESCRIPTION	<b>Dissolved Oxygen Analyser (Optical type)</b>
	3.0	RESPONSIBILITY CENTRE	CPC
B)	<p><b>Technical Criteria of QR:</b></p> <ol style="list-style-type: none"> <li>1. The Applicant should be either a manufacturer or their authorized representative in India for Supply, Installation and Commissioning of Dissolved Oxygen Analyser (Optical type) meeting the Technical Specification requirement.</li> <li>2. The Applicant should have supplied, installed and commissioned Dissolved Oxygen Analyser (Optical type) during last five years from the date of application which should have been in successful operation for a period of not less than one year in at least one unit of rating 200MW or above in a power station.</li> <li>3. Dissolved Oxygen Sensor, Transmitter / Amplifier and Interconnection cable should be of same (OEM) make.</li> </ol> <p><b>Documents to be submitted in support of meeting Technical QR:</b></p> <ol style="list-style-type: none"> <li>1. Latest annual report OR NSIC / SSI / MSME registration certificate / BIS license / ISO certificate / Certificate of registration from the concerned excise department / any other statutory document as a proof of being manufacturer of Dissolved Oxygen Analyser (Optical type).</li> <li>2. If the applicant is authorised representative/channel partner of manufacturer in India, a certificate from the manufacturer indicating authorisation to the applicant for participation in this specific enlistment process need to be submitted.</li> <li>3. In case of authorized dealer, the dealer should submit a letter from the manufacturer for authorization of dealership and submission of application participating in this specific enlistment process.</li> <li>4. The PO (issued within last five years from the date of application for enlistment) in support of award and completion certificate/copies of invoice to establish successful execution of the supply of Dissolved Oxygen Analyser (Optical type) as per QR</li> <li>5. Certificate showing at least one (01) Dissolved Oxygen Analyser (Optical type) should have been installed, commissioned and completed operation / in service of at least 01 year prior to the date of submission of application for enlistment.</li> <li>6. End user certificate to establish successful operation of supplied Dissolved Oxygen Analyser (Optical type) as per QR.</li> <li>7. Declaration/Certificate from the authorised signatory/Power of Attorney Holder or manufacturer mentioning that if awarded the ""Dissolved Oxygen Sensor, Transmitter / Amplifier and Interconnection cable supplied shall be of same (OEM) make"".</li> <li>8. Standard Published catalogue.</li> </ol>		

**C) Documents to be submitted to find executed value of orders:**

1. Three POs of the highest executed values of similar work during previous five years from the date of application. Copy of Invoice / Completion certificate from the concerned buyer/s in support of successful execution of supply against the POs to be submitted
2. Audited balance sheet including Profit & Loss statement for the previous three completed financial years reckoned from the date of application. In case the audited documents are not ready / available, then certified copy by a registered practicing Chartered accountant may be submitted.
3. GSTIN certificate, PAN, Power of Attorney, Letter of Undertaking, works information etc as mentioned in enlistment application pages of website [www.vendor.ntpc.co.in](http://www.vendor.ntpc.co.in)

**Similar works means:** Manufacture and supply of Steam & Water system analyser in power plant.

## TECHNICAL SPECIFICATION FOR DISSOLVED OXYGEN ANALYSER.

Requirements	Dissolved O <sub>2</sub>
Type	Microprocessor based Continuous Flow Through sample DO analyser with optical DO sensor along with LCD display and necessary fault diagnostic features
Accuracy	$\leq \pm 5\%$ of reading
Power Supply	230 V AC, 50 Hz
Response Time (90 % of Full Scale)	$\leq 30$ sec.
Range	0-20,0-200 ppb freely programmable
No. of Streams	Single
Temperature Compensation	Automatic
Sample Flow	170 ml/min (max)
Analog output	4-20 mA output capable of driving a load impedance of 500ohm (minimum)

### NOTES:

1. The material of flow cell for all analysers shall be SS316.
2. Analysers / monitors/ cells shall be suitable for operating under the conditions specified. Recommended life of the sensor shall be mentioned in the technical catalogue/brochure etc.
3. All the supplied analysers should have valid calibration certificates from manufacturer.
4. Vendor shall furnish their Environmental stress screening test process/procedure, including but not limited to Burn-In Test and Elevated Temp test processes for eliminating infant mortile electronics components used in manufacturing of items under consideration as a part of vendor enlistment process.