

NTPC LTD
Vendor Enlistment Cell (VEC)- CPG-1
Naya Raipur

Sub: Qualifying Requirement for Vendor Enlistment for supply of Thermocouples on PAN NTPC Basis.

A)	MEG DETAILS		
	1.0	MEG NO.	94MEG-10
	2.0	MEG DESCRIPTION	Enlistment for Supply of Thermocouples on PAN NTPC Basis
	3.0	RESPONSIBILITY CENTRE	Vendor Enlistment Cell
B)	Technical Criteria of QR: a. The Applicant should be a manufacturer of Thermocouples b. The Applicant should have executed the supply of Thermocouples to “Thermal Power Plant” during preceding five (05) years from the last date of submission of application.		
C)	Documents required in support of meeting QR: (1) Supporting Documents for QR. (a) Latest annual report OR Udyam Registration / 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 Thermocouples. (b) The credential work order(s) executed within last five years from the last date of submission of application for enlistment and completion certificate/copies of invoice(s) to establish the execution of the supply as per the QR.		
D)	Documents to be submitted to establish the Execution Capability (EC): In addition to the documents required in support of meeting technical requirements as stated above, following documents are required to be submitted by the applicants applying for enlistment: - 1. Three (3) POs of the highest executed values of supply of Thermocouples, during preceding five (05) years from the last date of submission 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.		

E)

Financials:

1. Audited balance sheet including Profit & Loss statement for the previous three completed financial years reckoned from the last date of submission of application. In case the audited result for the preceding financial year is not available, certification of financial statements from a practicing-chartered accountant is to be uploaded. In case, applicant is not able to submit the certificate from practicing chartered accountant certifying its financial parameters, the audited results of the three consecutive financial years preceding the last financial years shall be considered for evaluating the financial parameters. Further, a certificate would be required from the CEO/CFO stating that the financial results are under audit as on last date of submission of application and certificate from the practicing Chartered Accountant certifying the financial parameters are not available.

2. In case the applicant is not able to furnish its audited financial statements on stand-alone entity basis, the unaudited unconsolidated financial statements of the applicant can be considered acceptable provided the applicant further furnishes the following documents for substantiation of its qualification.

(a) Copies of the unaudited unconsolidated financial statements of the applicant along with copies of the Audited consolidated financial statements of its Holding Company.

(b) A Certificate from the CEO/CFO of the Holding Company, as per the format enclosed in the bidding documents, stating that the unaudited unconsolidated financial statements form part of the Consolidated Annual Report of the company.

3. GSTIN certificate, PAN, Power of Attorney, Letter of Undertaking, works information etc. as mentioned in enlistment application pages of website. www.vdc.ntpc.co.in

Note:

(i) Maximum Three Credential Order(s) shall be considered for calculation of the EC.

(ii) The word “Executed” mentioned above means that the bidder should have achieved the criteria specified above, even if the contract is started earlier and / or is not completed / closed

TECHNICAL SPECIFICATION FOR THERMOCOUPLES

Sl.No.	Features	Essential/Minimum Requirements
1	Type of Thermocouple	DUPLEX WITH SEPARATE HOT JUNCTION, UNGROUNDED
2	Type	Type K/Type B/Type E/Type J/Type N/Type R/Type S/Type T
3	Application	Temperature monitoring & Control of: boilers metal / steam / Exhaust gas / heat exchangers / cooling water / Flue gas temperature / feedwater / generator winding / Bearing temperature measurement / Metal Temperature measurement
4	Accuracy	CLASS-1 AS PER ANSI MC 96.1
5	Characteristics of thermocouple	Special limits of error : AS PER ANSI MC 96.1
6	Insulation resistance	At ambient temperature: > 100 MOHM tested at 500 VDC
7	Insulation	Magnesium oxide (mineral insulated)
8	Cold end sealing & termination	Stainless steel pot seal with colour coded PTFE insulated flexible fly off leads
9	Response Time	Less than 10 Seconds
10	Temperature Range	Application Specific / between 0 Deg C to 800 Deg C
11	Sheath Materials	Stainless Steel / Inconel ; as per specific requirement
12	Extension Wires:	Chromel-Alumel or compensation grade wires
13	Physical Dimensions	Probe Dia & Probe length: As per Application Thermocouple wire Dia: 20 AWG / As per Application Protective sheath diameter: 6 MM / As per Application
14	Environmental Conditions	Suitable for use in a wide range of industrial environments, including those with vibration, moisture, and varying temperatures
15	Construction Material (Typical as per Type)	Chromel/Alumel / Iron/Constantan / Copper/Constantan / Chromel/Constantan / Nicrosil/Nisil / Platinum-Rhodium 10%/Platinum / Platinum-Rhodium 13%/Platinum / Platinum-Rhodium 30%/Platinum-Rhodium 6% / Tungsten 5% Rhenium/Tungsten 26% Rhenium / Nickel-Molybdenum/Nickel-Cobalt