



PROJECT: 1X800 MW TANGEDCO NORTH CHENNAI TPP
STAGE-III

TECHNICAL PREQUALIFYING
REQUIREMENTS FOR VENDOR FOR
VIS FOR TG FOUNDATION

SPECIFICATION NO:PE-TS-423-613-C002

REV.NO. 0

DATE 12/09/2016

SHEET 1 OF 3

**TECHNICAL PREQUALIFYING REQUIREMENTS OF VENDOR
FOR
VIBRATION ISOLATION SYSTEM (VIS)
FOR
TG FOUNDATION**

SPECIFICATION NO: PE-TS-423-613-C002



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT
PPEI BUILDING, HRD & ESI COMPLEX
Plot No. 25, Sector 16A
NOIDA, U.P. – 201301



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SHEET 2 OF 3

PROJECT TITLE: 1X 800 MW TANGEDCO NORTH CHENNAI TPP STAGE-III

JOB NO. 423 DOCUMENT NO. PE-TS-423-613-C002

BUILDING/SYSTEM: VIBRATION ISOLATION SYSTEM

SUBJECT: TECHNICAL PREQUALIFYING REQUIREMENTS OF VENDOR FOR VIBRATION ISOLATION SYSTEM FOR TG FOUNDATION.

REV. NO.	PARTICULARS	PREPD. BY	CHECKED BY	APPROVED BY	REMARKS
00.	NAME	PK	SKM	TKM	
	SIGN	<i>Pakkiy Venu</i>	<i>Sei</i>	<i>for Sei</i>	
	DATE	12-09-16	12-09-16	12-09-16	



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TECHNICAL PREQUALIFYING REQUIREMENTS OF VENDOR
FOR VIBRATION ISOLATION SYSTEM (VIS)
FOR TG FOUNDATION

- a. Vendor should have **supplied and commissioned VIS (consisting of steel helical springs and viscous dampers)** for TG (Turbo-Generator) foundation or similar machine foundation in power plants (minimum 200 MW rating) and furnish experience list of at least four recently executed contracts where such systems have been successfully installed for such applications. Minimum 2 (two) nos. purchase orders shall be submitted which should not be more than 10 (ten) years old as on date of bid submission for establishing continuity in business. The vibration isolation system shall be of proven make and should be in successful operation for TG Foundation or similar machines for at least two years.
- b. The vendor should have at least two years **design experience** in design of VIS module, selection and finalisation of Layout of VIS as well as design of machine foundations and be able to furnish static and dynamic analysis of the RCC deck slab resting on VIS and supporting the machine. Calculation should establish that no dynamic loads (refer technical specification) are transferred to the structure supporting the VIS and that the foundation system meets the amplitude and frequency requirement as required by the machine manufacturer. The isolation system and R.C.C. deck slab shall be able to withstand seismic loading in addition to other loadings i.e. dead, live, wind, dynamic etc. Seismic design shall conform to IS: 1893 (Criteria for Earthquake Resistant Design of Structures).
- c. **Performance certificate** (along with copy of relevant purchase order) from the end user/customer for at least two (different Customers) successfully executed contracts which are in successful operation for at least two years for the applying package shall be furnished.

OR

The supplier has been awarded **Repeat Purchase order** from same customer (placed with minimum gap of 2 (two) years after commissioning of machine supported on VIS of previous contract). Repeat purchase orders shall be furnished from two different customers.