



PROJECT: 1X500 MW NTPC UNCHAHAR TPP STAGE-IV

**TECHNICAL PREQUALIFYING REQUIREMENTS
FOR VENDOR FOR
VIS FOR TD/MD BFP FOUNDATION**

SPECIFICATION NO: PE-TS-401-614-C002

REV.NO. 0

DATE 17/05/2014

SHEET 1 OF 3

**TECHNICAL PREQUALIFYING REQUIREMENTS OF VENDOR
FOR
VIBRATION ISOLATION SYSTEM (VIS)
FOR
TDBFP & MDBFP FOUNDATION**

SPECIFICATION NO: PE-TS-401-614-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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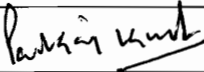
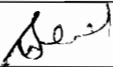
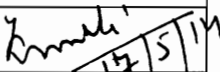
SHEET 2 OF 3

PROJECT TITLE: 1X 500 MW NTPC UNCHAHAR TPP STAGE-IV

JOB NO. 401 DOCUMENT NO. PE-TS-401-614-C002

BUILDING/SYSTEM: VIBRATION ISOLATION SYSTEM

SUBJECT: TECHNICAL PREQUALIFYING REQUIREMENTS OF VENDOR FOR
VIBRATION ISOLATION SYSTEM FOR TD/MD BFP FOUNDATION.

REV. NO.	PARTICULARS	PREPD. BY	CHECKED BY	APPROVED BY	REMARKS
00.	NAME	PK	SKM	TKM	
	SIGN				
	DATE	17-05-14	17-05-14	17-05-14	



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SHEET 3 OF 3

**TECHNICAL PREQUALIFYING REQUIREMENTS OF VENDOR
FOR VIBRATION ISOLATION SYSTEM (VIS)
FOR TD/MD BFP FOUNDATION**

- a. Vendor should have **supplied and commissioned VIS (consisting of steel helical springs and viscous dampers)** for Boiler Feed Pump (Turbine Driven-TD/ Motor Driven- MD) foundation or similar machine foundation in power plants or equivalent large sized industrial plants and furnish experience list of at least ten recently executed contracts where such systems have been successfully installed for such applications. The vibration isolation system shall be of proven make and should be in successful operation for TD and MD Boiler Feed Pumps 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 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.