



TITLE:

**TECHNICAL PREQUALIFYING REQUIREMENTS
OF VENDOR FOR VIS FOR TD AND MD BFP
FOUNDATION**

SPECIFICATION NO. PE-TS-362-614-C002

REV.NO. 0

DATE 12/12/2011

SHEET 1 OF 3

**TECHNICAL PREQUALIFYING REQUIREMENTS OF VENDOR
FOR
VIBRATION ISOLATION SYSTEM (VIS)
FOR
TD AND MD BOILER FEED PUMP (BFP) FOUNDATION**

SPECIFICATION NO. PE-TS-362-614-C002



**BHARAT HEAVY ELECTRICALS LIMITED
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NEW DELHI, INDIA**



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TECHNICAL PREQUALIFYING REQUIREMENTS
OF VENDOR FOR VIS FOR TD AND MD BFP
FOUNDATION

SPECIFICATION NO. PE-TS-362-614-C002

REV.NO. 0

DATE 12/12/2011

SHEET 2 OF 3

PROJECT TITLE: 2X 800 MW YERAMARUS THERMAL POWER STATIONJOB NO. 362 DOCUMENT NO. PE-TS-362-614-C002BUILDING/SYSTEM: VIBRATION ISOLATION SYSTEMSUBJECT: 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	PANKAJ	SKM	HM	
	SIGN	<i>Pankaj Kumar</i>	<i>SKM</i>	<i>HM</i>	
	DATE	12/12/11	12/12/11	14/12/11	

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OF VENDOR FOR VIS FOR TD AND MD BFP
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SHEET 3 OF 3

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

- a. Vendor should have **supplied and commissioned VIS (consisting of helical spring units 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 or similar machines for at least two years.
- b. Vendor should have at least two years **design experience** 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 of Earthquake Resistant Design of Structures".
- c. **Performance certificate** from the end user/customer for at least two successfully executed contracts shall be furnished.