



PROJECT: 2X660 MW RAGHUNATHPUR TPP PHASE-II (STG  
PKG)

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

SPECIFICATION NO: PE-TS-390-614-C002

REV.NO. 0

DATE 03/08/2013

SHEET 1 OF 3

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

**SPECIFICATION NO: PE-TS-390-614-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: **2X 660 MW RAGHUNATHPUR TPP PHASE-II (STG PKG)**

JOB NO. **390** DOCUMENT NO. **PE-TS-390-614-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	<i>P. K. S. / 03/08/13</i>	<i>SKM</i>	<i>TKM</i>	
	DATE	03-08-13	03-08-13	03-08-13	



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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.