



PROJECT: 1X500 MW NTPC VINDHYACHAL STPP STAGE-V  
(STG PKG)

TECHNICAL PREQUALIFYING REQUIREMENTS  
FOR VENDOR FOR  
VIS FOR TG FOUNDATION

SPECIFICATION NO: PE-TS-388-613-C002

REV.NO. 0

DATE 22/09/2012

SHEET 1 OF 3

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

**SPECIFICATION NO: PE-TS-388-613-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 500 MW NTPC VINDHYACHAL STPP STAGE-V (STG  
PKG)

JOB NO. 388 DOCUMENT NO. PE-TS-388-613-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>Parag Kumar</i>	<i>for SKM</i>	<i>Kumar</i>	
	DATE	22-09-12	22-09-12	22-09-12	





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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 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 TG Foundation 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 for Earthquake Resistant Design of Structures).
- c. **Performance certificate** from the end user/customer for at least two successfully executed contracts for applying package shall be furnished.