



PROJECT: 2X500 MW WBPDC, SAGARDIGHI TPP,  
PH-II UNIT # 3&4

TECHNICAL PREQUALIFYING  
REQUIREMENTS FOR VENDOR FOR  
VIS FOR ID/FD/PA FAN FOUNDATION

SPECIFICATION NO. PE-TS-373-618-C002

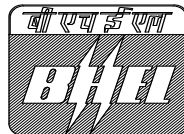
REV.NO. 0

DATE 24/12/2011

SHEET 1 OF 3

**TECHNICAL PREQUALIFYING REQUIREMENTS OF VENDOR  
FOR  
VIBRATION ISOLATION SYSTEM (VIS)  
FOR  
ID, FD AND PA FAN FOUNDATION**

**SPECIFICATION NO. PE-TS-373-618-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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
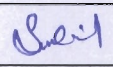
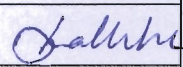
SHEET 2 OF 3

PROJECT TITLE: 2X 500 MW WBPDC, SAGARDIGHI TPP PH-II UNIT # 3&4

JOB NO. 373 DOCUMENT NO. PE-TS-373-618-C002

BUILDING/SYSTEM: VIBRATION ISOLATION SYSTEM

SUBJECT: TECHNICAL PREQUALIFYING REQUIREMENTS OF VENDOR FOR VIBRATION  
ISOLATION SYSTEM FOR ID/FD/PA FAN FOUNDATION

| REV.<br>NO. | PARTICULARS | PREPD.<br>BY                                                                        | CHECKED<br>BY                                                                       | APPROVED<br>BY                                                                        | REMARKS |
|-------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|
| 00.         | NAME        | BR                                                                                  | SKM                                                                                 | HM                                                                                    |         |
|             | SIGN        |  |  |  |         |
|             | DATE        | 24-12-11                                                                            | 24-12-11                                                                            | 24-12-11                                                                              |         |



PROJECT: 2X500 MW WBPDC, SAGARDIGHI TPP,  
PH-II UNIT # 3&4

**TECHNICAL PREQUALIFYING  
REQUIREMENTS FOR VENDOR FOR  
VIS FOR ID/FD/PA FAN FOUNDATION**

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SHEET 3 OF 3

**TECHNICAL PREQUALIFYING REQUIREMENTS OF VENDOR  
FOR VIBRATION ISOLATION SYSTEM ( VIS)  
FOR ID/FD/PA FAN FOUNDATION**

- a. Vendor should have **supplied and commissioned VIS (consisting of steel helical springs and viscous dampers)** for fan (Induced Draft – ID, Forced Draft –FD, Primary Air -PA) foundation or similar machine foundation in power plants of unit capacity not less than 500 MW 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 ID/FD/PA fan 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 for applying package shall be furnished.