



NHPS (GX250 MW)

MANUFACTURING QUALITY PLAN

Item: Hard Coating Powder (direct procurement of powder from OEM / their representatives)

Doc No. SIVN/QA/NJHC-02

Rev. No. 01

Issue Date: 07.10.15

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For tender purpose only

| Sl. NO | COMPONENT & OPERATION | CHARACTERISTICS | CLASS | TYPE OF CHECK | QUANTUM OR CHECK | REFERENCE DOCUMENT | ACCEPTANCE NORMS | FORMAT OF RECORD | AGENCY M/C | REMARKS |
|--------|-----------------------|-----------------|-------|---------------|------------------|--------------------|------------------|------------------|------------|---------|
| 1 | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |

Supply of Hard Coating Powder

| | | | | | | | | | | |
|-----|--|-------|---------------|-------------------|----------------------------------|----------------------------------|--|-----|---|--|
| 1.1 | Chemical composition of powder for % of Tungsten, Cobalt, Chromium & Carbon | Major | Chemical Test | 01 sample per lot | As per LOA & Tech. Specification | As per LOA & Tech. Specification | Test Certificate | P/V | V | |
| 1.2 | Data from Manufacturer for micro-hardness, porosity, bond strength, surface roughness. | Major | Data | Once | As per LOA & Tech. Specification | As per LOA & Tech. Specification | Manufacturer's Data sheet / Original letter from Manufacturer. | V | V | |

Notes

1. Manufacturer's data sheet (Chemical & Mechanical properties), manufacturer's test certificate for powder (Chemical properties) will be compared with pre-specified values in the supply order/LOA for issuance of MDCC by QA&I Department, SIVN Ltd. Shimla.
2. The material shall be supplied in sealed Bottles. All the Bottles shall be checked for proper sealing and any damage after receipt at NHPS store.
3. Manufacturing date of hard coating powder to be supplied should not be prior to the 06 months period from the date of placement of order/LOA by SIVN.
4. This quality plan is applicable only for already enlisted hard coating powder to be procured from OEM/their representatives with consideration that hard coating powder shall be directly delivered from OEM warehouse to NHPS stores eliminating third party handling of powder in India or abroad.

LEGEND

M/C: MANUFACTURER/CONTRACTOR
 S: SIVN
 P: PERFORM & VERIFIED BY QC DEPT
 W: WITNESS
 V: VERIFICATION
 TC: Test certificate
 TS: Technical Specification

FOR SIVN USE

Prepared by *[Signature]*

REVIEWED BY *[Signature]*

NAME & SIGN OF APPROVING AUTHORITY & SEAL

[Signature]

QUALITY ASSURANCE DEPT
 Approved
 DATE 11/10/15
 SIVN, Shimla