

**ANNEXURE-I for HMC****PROJECT: KISHANGANGA HEP (3 x 100 MW)****(1) QUANTITY: 3 Nos.****(2) TYPE OF GOVERNOR: PELTON****(3) DRAWINGS:**

- (a) Hydro Mechanical Scheme for Deflector control Drg. No. : 02000018501 Rev. 01 (enclosed)**
- (b) Installation of HMC Drg. No. 02085018501 Rev.02 (enclosed)**
- (c) Wiring Diagram of Deflector Hydro Mechanical Cabinet Drg. No. : 32083918501 rev.01**
will be submitted after placement of P.O. to successful bidder.
- (d) Pedestal Drg. No. : 12085049000 (already available with all the vendors)**
- (e) Port Size: Var. No. 07 of Drg. No. 32083649049 REV. 03 (2 Ports)**
- (f) Modified Sub plate drawing No. 32083949233 Rev.01 for mounting Auto Manual solenoid valve enclosed.**

(6) METERING INDICATION**(6.1.1) Tachometer****(a) Input range: 4-20 mA****(6.1.2) Balance Indicator****(a) Input range: (-) 5.5 – 0 – (+) 5.5 VDC****(6.1.3) Speed Setting Indicator****(b) Input range: 4-20 mA****(6.1.4) Output Setting Indicator****(c) Input range: 4-20 mA****Make : Meco/Rishabh****(6.2) Mechanical Meter:** Deflector position/Limiter indicator dial graduation marking is 250⁰ for 0-100% indication**(6.2.2) Pressure Gauge:****Range: 0 - 100 Kg/cm²****Make: Wika /Budenberge /Forbes Marshal /Ashcraft /Toshniwal**

**(7) Painting:-**

A. Two coats of finish paint for external surface of cabinet and casting shall be of shade No. RAL 1013 Pearl White.

(16) Following particulars to be punched on the rating plate Drg. No. 12083749020 Item No. 1 by the supplier before dispatch of the HMC.

(a) Type of Turbine: Pelton

(b) System Pressure: 60 Kg/Cm²

(c) W.O. No. : Unit-I : 39003P22409
Unit-II : 39004P22409
Unit-III : 39005P22409

Station DC Supply: 220 V DC

Special Feature:

1. **Duplex Filter** – This filter should be designed for max. operating pressure of 70 kg/cm², flow 30 LPM and filtration rate 10 microns with visual and electrical clogging indicator 1 NO + 1 NC potential free contact at pressure differential of 4.5 Kg/cm² and filter pressure drop should not be more than 0.5 Kg/cm². This filter shall be in supplier scope of supply. The filter collapsibility shall not be less than 30 kg/cm² differential.

Make: HYDAC / REXROTH