



OFFICE OF THE EXECUTIVE ENGINEER,
GENERATION DIVISION -1ST SUMBAL (Kangan)

(Email id: xenesumbal@gmail.com)

Subject: Notice inviting Budgetary Offers.

Sir,

Budgetary offers for restoration of Capital overhauling of UNIT-I of USHP-I, Sumbal as per attached scope of work is sought within a week's time positively from approved registered companies / reputed agencies with relevant experience for carrying out works of underwater parts of hydro power station clearly mentioning rates, taxes and duties. The scope of work is given as under:

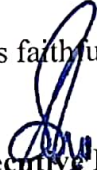
S.No	Description of work	Quantity
1	Preshutdown survey and dismantelling of whole machine including generator stator,rotor, under water parts like turbine ,bearings,guide vanes etc and all associated bearings , HT valves and HT pipelines of cooling system as per SOP,scope of work and site requirements.	1 Job
2	Post dismantelling ,inspection,testing/measurements and analysis of dismantled assemblies like stator winding,rotor ,HV busbar ,HV cables LV and HV breakers ,whole protection system panels (TG &CR) of generator and Governor Panel, shaft,Excitation transformer ,excitation panel ,UGB ,under water parts like turbine and associated bearings etc of unit#1 through various standard tests laid as per SOP and site requirements and given as per scope of work.	1 Job
3	Complete replacement of existing 162 No.stator and 12 No. Rotor coils with Class-F insulation for 11.3 MW BHEL made generator as per NEMA standards and scope of works and site requirements. Conduct relevent test for both rotor and stator as laid down in IS/IEC like tan deta,partial discharge,IR tests ,Elcid test of core, pole drop tests and HV tests etc.complete test painting of core and testing for any hotspots using infra red test as per standards .Installation of RTD inside core and stator for temperature monitoring.	1 Job
4	Complete overhaullling of under water parts like turbine,guide vanes and links,lybrinth plate ,TGB bearings , servo link ,turbine top cover ,associated cooling pipelines ,shaft seal and other associated seals as per scope of work and site requirements. Complete overhauling of existing governor unit along with associated controls, HT pipelines,panes, servo motors and accumilator tank with latest electronic PLC and Scada controlled . Complete overhaulling/replacement of cooling system HT pipes, HT values,PRV along with complete overhaulling of strainer and dewatering sytem.	1 Job
5	Complete centerlised PLC and Scada based data logging meterinig,protection and automation of generator,11kv breakers , protection panels of generator and 132kv line .complete automation of excitation system,TG panels for indication and protection and control.Complete centralised auto operation and control of whole unit along with starting ,synchronisation,stopping.	1 Job
6	Complete overhauling of existing old BHEL Made 7 No.11KV breaker panels along with associated 1200 A busbar, protection and control as per NEMA /IS/IES along with installation of centralized PLC control and installation and commissioning of latest protection system as per scope work and site requirements.	1 Job

7	Assembling of all machine parts like generator, under waters parts, bearings, pipe lines turbine, panels, control, shaft, HV Breakers and cables etc. after overhauling / replacement along with conduction of relevant tests as per scope of work and site requirements.	1 Job
8	Complete Dynamic balancing along with proper corrections, complete alignment, vibration analysis before dry spinning of machine. Precommissioning test of all centralized systems along with newly installed centralized automation system and testing of unit at various loads and at various voltage and final commissioning of the machine before handover.	1 Job

Yours faithfully,

No: GDS/ 503-05
Dated 02/08/21




Executive Engineer
Generation Division USHP-1, Sumbal

Copy to the:-

- 1): Chief Engineer, Generation Wing, Kmr for information.
- 2): Superintending Engineer, Generation Circle-II, JKPDC for information.
- 3): IT cell, JKPDC with a request that the notice be uploaded on official website of JKPDC.