

सयपत्री हाइड्रोपावर लिमिटेड प्रबद्घित दरम खोला "ए" जलविधुत आयोजनाको TOR बमोजिमको मेसेनरी overhauing गर्नु पर्ने भएको हुँदा उक्त कार्य गर्नका लागि ईच्छुक कम्पनीले यो सूचना प्रकाशित गरेको ७ दिन भित्रमा कबोल रकम सिहत बोलपत्र यस हाइड्रोपावर लिमिटेडको केन्द्रीय कार्यलय चाबहिलमा पेश गर्नुहुन यो सुचना सयपत्री हाइड्रोपावर लिमिटेडको केन्द्रीय कार्यलयको सुचनापाटी र web site – www.sayapatrihydropowerlimited.com प्रकाशित गरिएको छ ।

Terms of Reference For Overhauling of 2.5 MW (1.250*2 MW)

Daramkhola A Hydroelectric Power plant

Background

Daram Khola 'A' hydro-electric project is run—of—river type project located at Tarakhola Rural Municipality, Baglung, Nepal. This project is Under Sayapatri Hydro Power Limited (SPHL), which is a public company, incorporated on July 30, 2007 and promoted by institutional as well as individual promoters from different background. It is currently operating with the capacity of 2.5 MW. The project is constructed under BOOT (Build Own Operate and Transfer) mechanism. The commercial production and sale of energy was started on 26 June, 2016. Daram khola 'A' hydroelectric project consists two units of francis turbine each having the capacity 1.250 MW. Sayapatri Hydro Power Limited is seeking for overhauling of both units which is continuously in operation since 26 June, 2016.

Specification of the project Equipment: Synchronous Generator: (2*1.25 MW)

Model: SFW-W1250-6/1180 Generation Voltage: 6600 volts

Francis Turbine:

Model:

HLFI-WJ-62

Transformer:

Product Model: S11-3150/33 Rated Capacity: 3150 KVA

Excitation System: Brushless Type

Technical Condition:

GB/T7894-2001

1. Objective

Overhauling of both units (Generator, turbine, Transformers and other auxiliaries) within this dry season.

2. Scope of Work

2.1.Field survey for gathering of information/data of the Daramkhola A hydro-electric project to find out the status and exact requirements of the plant.

- **2.2.Overhauling of unit:** After finalizing the status of project, provide us the data of equipment, which is not available at our site and is required for completion of overhauling work. All the works must be completed with in this dry season period.
- **2.3.Document Submission:** Report the status of plant equipment with future monitoring sequences.

Some major point which has to be cover during this overhauling are as follows:

- 1) Generator dismantling, cleaning, checking insulation status and add necessary varnish as per the requirements and re-install the parts after checking all line level.
- 2) In unit 2 there is problem of runner striking when we run the turbine in power ranging from 300kw to 500 kw, these need to be solved through proper leveling of equipment
- 3) Check the leakage from the guide vane of unit 1
- 4) Check all power cable status.
- 5) Check Power transformer (3 Phase 3150 KVA) status and perform all the necessary maintenance task required.
- 6) Check Governor of both units and associated equipment status.
- 7) Check MIV and By-Pass valve function, currently not functioning in automatic mode.
- 8) Check the VCB HV/LV status and conduct the necessary maintenance if any issues observed.
- 9) Check The Protection system status and conduct the necessary maintenance if any issues observed.

3. Qualification of the Contractor/firm

The contractor firm must have an experience of at least one project where they should have perform overhauling/installation/maintenance tasks.

4. Deliverables and Time Frame

he a	bove scope of work must be completed by the consultant as below:	
0	Contract	Signing
	By,	
	Date	
0	Overhauling Work Starts: After 2 weeks of contract signing	
0	Final report: After 2 weeks of overhauling completetion.	

5. Payment Schedule

- 30% upon contract signing
- 60% upon Completion of works at site

• 10% upon submission of final report

6. Other terms and condition for the consultant

- The contractors shall work in close coordination with Sayapatri Hydropower Limited Company team.
- Any information required by the contractors (Hydropower-related) for the work shall be provided by client.
- Transportation shall be manage by contractor itself.

Sayapatri Hydropower Limited DaramKhola A Hydroelectric Project

5 MIV checking and Limit adjustment as per requirement 2 set	ssary), and le and other
7 Protection panel general checking	2 set
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