



TECHNICAL SPECIFICATIONS

FOR

**Design, Supply, Installation, Testing and Commissioning of Electro-
Mechanical Equipment**

(EM PACKAGE)

March 2023

DD Hydropower & Developers Private Limited

Registered Office: Pvt Res, Near Directorate of Eco & Stats, PO RKM,
Itanagar, Arunachal Pradesh, India.
Email: keyihydro@virtuaal.in

Contract Title: Design, Supply, Installation, Testing and Commissioning of Electro-Mechanical Equipment (EM Package) for Keyi Hydropower Project (23 MW) in Arunachal Pradesh

IFB No: *KEYI-W002-EM*

IFB issued on: *22nd March 2023*

Part-I: Technical Specification for E&M Equipment

Volume number	Contents	Section No./ Name
Volume-1	Invitation for Bids	Section 0: Invitation for Bids
	Bidding Procedures and Bidding Forms	Section 1: Instructions to Bidders
		Section 2: Bid Data Sheet
		Section 3: Evaluation, Eligibility and Qualification Criteria
		Section 4: Bidding Forms for Technical Bid
		Section 5: Bidding Forms for Price Bid
	Employer's Requirements	Section 6: Employer's Requirements (the contents of this Section include by reference the contents of Volume-2 and Volume -3)
	Conditions of Contract and Contract Form	Section 7: General Conditions of Contract
		Section 8: Special Conditions of Contract
		Section 9: Contract Forms
Volume-2	Technical Specifications	Part-I: Technical Specification for E & M Equipment
		Part-II: Technical Data Sheet
Volume-3	Drawings	Drawings - E & M System Drawings

Table of Contents

S.No	Description
1	General Technical Specification
2	Turbine and Accessories
3	Governing System
4	Main Inlet Valve with Accessories
5	Generator with Excitation System and Auxiliaries
6	Generator Step Up and Auxiliary Transformers
7	11 kV Switchgear
8	Supervisory Control and Data Acquisition System
9	Protection System
10	415 V Switchgear
11	Grounding System
12	DC System
13	DG Sets
14	Drainage & Dewatering System
15	EOT Crane
16	132 kV Switchyard
17	Air conditioning and ventilation System
18	OLTE System
19	Fire Protection System
20	Illumination System
21	LP Compressed Air System
22	Power, Control & Instrumentation Cables
23	Public Address System
24	Oil Filtration System