



পাম্পড স্টোরেজ প্রজেক্ট ডিপার্টমেন্ট
West Bengal State Electricity Distribution Company Limited
(A Government of West Bengal Enterprise)
Pumped Storage Project Department

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Memo No. PSPD/2II/3A-EM/ICB/PQ/341

Dated 02.02.2024

ADDENDUM NO.1

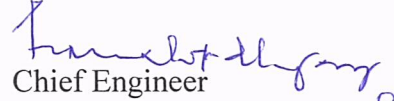
DATED 02.02.2024

Ref. : WBSEDCL/TURGA PSP/EM-3A/PQ-ICB/07/23-24

Date: 21st December 2023

Appendix-A : Scope of Works is hereby uploaded in connection with Tender ID 2023_WBSED_632154_1 related to Electromechanical Equipment (Generating Equipment) (Package 3A) i.r.o. Project for the Construction of Turga Pumped Storage (I) (4 × 250 MW).

Enclosure: As stated


Chief Engineer
Pumped Storage Project Department
WBSEDCL 02/02/24

APPENDIX-A

SCOPE OF WORKS

(PQ Purpose Only, Ratings is tentative value)

This is Turnkey Contract (design build) except civil works (package 1), hydromechanical works (package 2) and substation equipment (package 3B). The Contractor shall have responsibility to complete the plant according to Employer's requirements which is the part of Bidding Documents.

PACKAGE 3A

1. Pump-Turbine

(1)	Fixed speed reversible pump turbine	Two (2) sets
(2)	Variable speed reversible pump turbine	Two (2) sets
(3)	Main Inlet valve	Four (4) sets
(4)	Speed governor	Four (4) sets
(5)	Pressure oil supply system for inlet valve	Four (4) sets
(6)	Pressure oil supply system for speed governor	Four (4) sets
(7)	Compressed air supply system	Six (6) sets
(8)	Cooling Water supply system	Four (4) sets
(9)	Water drainage system	One (1) lot
(10)	Water dewatering system	One (1) lot
(11)	Turbine Control Board	Four (4) sets



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|---------------------------------------|---------------|
| (12) Motor control center | Four (4) sets |
| (13) Lubrication oil treatment system | One (1) lot |
| (14) Spare parts | One (1) lot |

2. Generator-Motor

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|--|---------------|
| (1) Fixed speed Generator-Motor | Two (2) sets |
| (2) Variable speed Generator-Motor | Two (2) sets |
| (3) DC Excitation system | Two (2) sets |
| (4) AC Excitation system | Two (2) sets |
| (5) Neutral grounding device | Four (4) sets |
| (6) Static Frequency Converter (SFC) and related equipment | One (1) set |
| (7) Generator auxiliary equipment | Four (4) sets |
| (8) Inert-gas firefighting system | One (1) lot |
| (9) Spare parts | One (1) lot |

3. Overhead traveling crane

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|--------------------------------|--------------|
| (1) Overhead traveling crane | Two (2) sets |
| (2) Dummy load with load frame | One (1) set |
| (3) Spare Parts | One (1) lot |

4. Power Plant Equipment

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|--------------------------------------|--|
| (1) Control and Protection Equipment | |
|--------------------------------------|--|



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|-----|--|---------------|
| (a) | Main control equipment | One (1) lot |
| (b) | Control annex in main control room | One (1) lot |
| (c) | Unit & GSUT Protection relay boards | Four (4) sets |
| (d) | Unit local control equipment | Four (4) sets |
| (e) | Common control equipment | One (1) lot |
| (f) | DC supply system | One (1) lot |
| (g) | Inverter supply system | One (1) lot |
| (h) | Water level measuring equipment | One (1) lot |
| (2) | Metal enclosed power switchgear | |
| (a) | Generator main circuit switchgear | Four (4) sets |
| (b) | Isolated phase bus for generator main and branch circuit | Four (4) sets |
| (c) | 11 kV metal enclosed power switchgear | One (1) lot |
| (d) | Low voltage metal enclosed power switchgear | One (1) lot |
| (e) | Unit auxiliary power transformer | Four (4) sets |
| (f) | Distribution power transformer | One (1) lot |
| (g) | Protection relays | One (1) lot |
| (h) | Switchgear for dynamic break of generator | Four (4) sets |
| (4) | Power and control Cables | One (1) lot |
| (5) | Power source box for maintenance work | One (1) lot |



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|-----|------------------------|-------------|
| (6) | Unit monitoring system | One (1) lot |
| (7) | Spare parts | One (1) lot |

5. Plant Communication Equipment

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|-----|------------------------|-------------|
| (1) | Telephone System | One (1) lot |
| (2) | DC Power supply system | One (1) lot |
| (3) | Paging System | One (1) lot |
| (4) | Spare parts | One (1) lot |

6. Miscellaneous equipment

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|------|-----------------------------------|--------------|
| (1) | Emergency diesel engine generator | Two (2) sets |
| (2) | Workshop equipment | One (1) lot |
| (3) | Measuring Instrument | One (1) lot |
| (4) | Office IT system with LAN | One (1) lot |
| (5) | Electrical Vehicle | Two (2) |
| (6) | Maintenance supporting system | One (1) lot |
| (7) | Oxygen density monitoring system | One (1) lot |
| (8) | CCTV and security system | One (1) lot |
| (9) | Office furniture and equipment | One (1) lot |
| (10) | Spare parts | One (1) lot |



7. Metal Enclosed Switchgear at Intake Dam and Tailrace

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|-----|---------------|--------------|
| (1) | 11kV Cubicles | Two (2) sets |
| (2) | 400V Cubicles | Two (2) sets |
| (3) | Spare Parts | One (1) lot |

8. Remote Control System of Existing Purulia PSPP

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|-----|--|-------------|
| (1) | Relocation of OPS from Purulia PSP to Turga PSP | One (1) lot |
| (2) | Communication system between Turga PSPP and Purulia PSPP | One (1) lot |

9. Utility Works

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|-----|--|--------------|
| (1) | Lighting system | One (1) lot |
| (2) | Ventilation system with air chiller | One (1) lot |
| (3) | Fire alarm system and portable fire extinguisher | One (1) lot |
| (4) | Firefighting system | One (1) lot |
| (5) | Metal Works (Steel stairs, hatches and so on) | One (1) lot |
| (6) | Elevator in Underground powerhouse | Two (2) sets |
| (7) | Finishing works of underground powerhouse | One (1) lot |

