MADHYA BHOTEKOSHI JALAVIDYUT COMPANY LIMITED

Middle Bhotekoshi Hydroelectric Project (102 MW)

ADDENDUM No. 2

Lot 1: Civil and Hydro-Mechanical Works (EPC Contract)

Contract Identification No.: MBJCL/MBKHEP/068/69/EPC-1

Table of Content:

1 Introduction

It has become necessary to introduce a number of changes to the Bidding Documents and therefore this Addendum No. 2 has been issued.

The changes are both of contractual and technical natures and are detailed in the following sections.

2 Changes to the Volume 1 Contract Forms

The following change shall be made to the form of the **Performance Security:**

The following existing text at the end of this form shall be deleted:

* The Guarantor shall insert an amount representing the percentage of the Contract Price specified in the Contract in Nepalese Rupees.

and replaced with the following new text:

* The Guarantor shall insert an amount representing the percentage of the Contract Price specified in the Contract in US Dollars and Nepalese Rupees.

The following change shall be made to the form of the **Advance Payment Security:**

The following existing text at the end of this form shall be deleted:

* The Guarantor shall insert an amount representing the amount of the advance payment in Nepalese Rupees of the advance payment as specified in the Contract.

and replaced with the following new text:

* The Guarantor shall insert an amount representing the amount of the advance payment in US Dollars and Nepalese Rupees of the advance payment as specified in the Contract.

3 Changes to the Volume 1 Bid Price Schedule

The following existing text shall be deleted:

The Bidder shall complete the table below and include the price in US Dollars and Nepalese Rupees for the completion of each Milestone. In addition, he shall state the time to completion required for each Milestone.

The prices entered into this table by the Bidders shall be reasonable and shall reflect the quantity of work required in order to complete each Milestone. Bids which contain unbalanced prices may

be determined to be non-responsive and may be rejected by the Employer. It may arise that the Employer shall ask Bidders to correct Bids which contain unbalanced prices during the contract negotiations without allowing any change to the total Bid Price.

and replaced with the following new text:

The Bidder shall complete the table below and include the price in US Dollars and Nepalese Rupees for the completion of each Milestone. In addition, he shall state the time to completion required for each Milestone.

The prices entered into this table by the Bidders shall be reasonable and shall reflect the quantity of work required in order to complete each Milestone. Bids which contain unbalanced prices may be determined to be non-responsive and may be rejected by the Employer. It may arise that the Employer shall ask Bidders to correct Bids which contain unbalanced prices during the contract negotiations.

The following change shall be made to the tables in this document:

The existing Milestones (MS 1-60) Table and Bill of Quantities (BoQ) – Rock Support Measures Table in the Bidding Documents shall be deleted in its entirety and replaced by the New Milestones (MS 1-60) Table and New BoQ – Rock Support Measures Table enclosed in the Appendix 1 attached to this document. The amounts to be included in these tables by the Tenderers shall now be given in both figures and words.

The entire Bid Price Schedule (Appendix 1 of Addendum No. 1) has been replaced by a revised Bid Price Schedule, named the Bid Price Schedule (New Format), which is enclosed in Appendix 1 of this Addendum No. 2. The above-mentioned changes are included in this revised Bid Price Schedule (New Format).

4 Changes to Volume 2 - General Specifications

The following new sections shall be added to this document:

2.3 Water Usage

This Contractor shall be responsible for the design, supply and installation of an adequate water supply for the permanent equipment supplied under this Contract, in particular for the air conditioning system and the domestic water supply. The water supplied shall be of a suitable quality. If necessary, a suitable filter system shall be installed.

2.4 Water Analysis

The Contractor shall carry out a water analysis of the river water within 90 days of the Commencement Date. The water conductivity and mineralization of the water shall be tested and a chemical analysis shall be carried out. The results shall be submitted as soon as they are available to both the Employer and the Employer's Representative. This analysis shall be carried out by an independent reputable company or institute.

5 Changes to Volume 3 - Hydromechanical Specifications

The following changes shall be made to the Volume 3 - Hydromechanical Specifications:

3.4.1 Stoplog Seals

The following existing text shall be deleted:

All stoplog sections shall be provided with seals to prevent water leakage along the whole periphery of the sealing area and between individual stoplog sections. The seals shall be mounted on the upstream side of the stoplog. The sides, the bottom, and the top of the stoplog shall be provided with rubber seals, resistant against wear and ambient conditions.

The seals shall consist of durable synthetic rubber with high resistance to wear. Hardness shall be approximately 50° to 70° by Shore. Clamping bars shall have sufficient strength to press the rubber seals uniformly against their seats. Spacing between fixing screws shall be sufficiently short to ensure uniform sealing. For end-to-end screws, anti-leakage washers, ferrules shall be provided to ensure water tightness. The seals shall be fixed to the gate by means of bolted sealing bars. All bolts and fixing elements shall be of stainless steel, for easy replacement of all seals. All active sealing surfaces shall be manufactured of stainless steel and ground smooth after installation.

The seals shall have the following shapes:

- Top seal: Double stem type
- Lateral seals: P-shaped rubber
- Bottom seal: Strip rubber

The seal surface, related to the gate panel and seat surface on the embedded sealing frame, shall not exceed an out-of-plane tolerance of ±1.5 mm.

The corners of seals shall be secured by vulcanising. Any other connecting surfaces which will not be subject to tensile loading during operation, installation, or removal of stoplog elements, may be glued, subject to the Engineer's approval.

and replaced with the following new text:

All stoplog sections shall be provided with seals to prevent water leakage along the whole periphery of the sealing area and between individual stoplog sections. The seals shall be mounted on the upstream side of the stoplog. The sides and the bottom of the stoplog shall be provided with rubber seals, resistant against wear and ambient conditions.

The seals shall consist of durable synthetic rubber with high resistance to wear. Hardness shall be approximately 50° to 70° by Shore. Clamping bars shall have sufficient strength to press the rubber seals uniformly against their seats. Spacing between fixing screws shall be sufficiently short to ensure uniform sealing. For end-to-end screws, anti-leakage washers, ferrules shall be provided to ensure water tightness. The seals shall be fixed to the gate by means of bolted sealing bars. All

bolts and fixing elements shall be of stainless steel, for easy replacement of all seals. All active sealing surfaces shall be manufactured of stainless steel and ground smooth after installation.

The seals shall have the following shapes:

- Lateral seals: P-shaped rubber
- Bottom seal: Strip rubber

The seal surface, related to the gate panel and seat surface on the embedded sealing frame, shall not exceed an out-of-plane tolerance of ±1.5 mm.

The corners of seals shall be secured by vulcanising. Any other connecting surfaces which will not be subject to tensile loading during operation, installation, or removal of stoplog elements, may be glued, subject to the Engineer's approval.

4.4.1 Settling basin outlet stoplog seals

The following existing text shall be deleted:

All stoplog sections shall be provided with seals to prevent water leakage along the whole periphery of the sealing area and between individual stoplog sections. The seals shall be mounted on the upstream side of the stoplog. The sides, the bottom, and the top of the stoplog shall be provided with rubber seals, resistant against wear and ambient conditions.

The seals shall consist of durable synthetic rubber with high resistance to wear. Hardness shall be approximately 50° to 70° by Shore. Clamping bars shall have sufficient strength to press the rubber seals uniformly against their seats. Spacing between fixing screws shall be sufficiently short to ensure uniform sealing. For end-to-end screws, anti-leakage washers, ferrules shall be provided to ensure water tightness. The seals shall be fixed to the gate by means of bolted sealing bars. All bolts and fixing elements shall be of stainless steel, for easy replacement of all seals. All active sealing surfaces shall be manufactured of stainless steel and ground smooth after installation

The seals shall have the following shapes:

- Top seal: Double stem type
- Lateral seals: P-shaped rubber
- Bottom seal: Strip rubber

The seal surface, related to the stoplog panel and seat surface on the embedded sealing frame, shall not exceed an out-of-plane tolerance of ±1.5 mm. The corners of seals shall be secured by vulcanising. Any other connecting surfaces which will not be subject to tensile loading during operation, installation, or removal of stoplog elements, may be glued, subject to the Employer's Representative approval.

and replaced with the following new text:

All stoplog sections shall be provided with seals to prevent water leakage along the whole periphery of the sealing area and between individual stoplog sections. The seals shall be mounted on the upstream side of the stoplog. The sides and the bottom of the stoplog shall be provided with rubber seals, resistant against wear and ambient conditions.

The seals shall consist of durable synthetic rubber with high resistance to wear. Hardness shall be approximately 50° to 70° by Shore. Clamping bars shall have sufficient strength to press the rubber seals uniformly against their seats. Spacing between fixing screws shall be sufficiently short to ensure uniform sealing. For end-to-end screws, anti-leakage washers, ferrules shall be provided to ensure water tightness. The seals shall be fixed to the gate by means of bolted sealing bars. All bolts and fixing elements shall be of stainless steel, for easy replacement of all seals. All active sealing surfaces shall be manufactured of stainless steel and ground smooth after installation

The seals shall have the following shapes:

- Lateral seals: P-shaped rubber
- Bottom seal: Strip rubber

The seal surface, related to the stoplog panel and seat surface on the embedded sealing frame, shall not exceed an out-of-plane tolerance of ±1.5 mm. The corners of seals shall be secured by vulcanising. Any other connecting surfaces which will not be subject to tensile loading during operation, installation, or removal of stoplog elements, may be glued, subject to the Employer's Representative approval.

Appendix 1

Bid Price Schedule (New Format)