

AMENDMENT - 1 (COMMERCIAL)

एसजेवीएन लिमिटेड
(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
SJVN Limited
(A Joint Venture of Govt. of India & Govt. of H.P.)



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AMENDMENT No.1 (Commercial)

E- Tender No.: SJVN/CHQ/ECD/SUNNI/EMP/2024

Name of Tender: **Electro-Mechanical Works of Sunni Dam HEP (382 MW) located in Distt. Shimla and Mandi in Himachal Pradesh (India).**

In terms of clause 11.0 of '**Section –II Instructions to Bidders**' of the bidding documents for procurement of the subject cited package, following amendment is hereby issued:

S. N	Section, Chapter/ Clause No.	Existing Provisions	Amended provisions
1.	Section-II, ITB cl. 3.1	This invitation to bid is open to all the National/domestic bidders who meet the Qualification Criteria as per Clause - 5.5 hereunder	This invitation to bid is open to all the National/domestic bidders who meet the Qualification Criteria as per Clause – 5 and 6 hereunder
2.	Section-II, ITB cl. 35.3	In case Bidding Company (subsidiary company)..... as per format prescribed in Contract forms, of value equivalent to (3%) three percent of the Contract Price or portion of work (where subsidiary Company is Joint Venture Partner) Bid Document.	In case Bidding Company (subsidiary company)..... as per format prescribed in Contract forms, of value equivalent to (5%) Five percent of the Contract Price or portion of work (where subsidiary Company is Joint Venture Partner) Bid Document.
3.	Section-IV, GC cl. no. 11.4	Any sum of money due and payable to the Contractor (including Performance Guarantee returnable to him) under this Contract may be appropriated by the Employer and set off against any claim of the Employer out of or under any Contract made by the Contractor with the Employer	Any sum of money due and payable to the Contractor (including Performance Guarantee returnable to him) under this Contract may be appropriated by the Employer and set off against any claim of the Employer under this contract.
4.	Section-IV, GC cl. no. 11.5	It is an agreed terms of the Contract that the sum of money so withheld if retained under this clause by the Employer shall be kept, withheld or retained as such by the Employer till the	It is an agreed terms of the Contract that the sum of money so withheld if retained under this clause by the Employer shall be kept, withheld or retained as such by the Employer till the claims arising out of this

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		claims arising out of in the same Contract are either mutually settled or determined by the arbitrator, and the Contractor shall have no claim for interest or damage whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the Contractor.	Contract are either mutually settled or determined by the arbitrator, and the Contractor shall have no claim for interest or damage whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the Contractor.
5.	Section-IV, GC cl. no. 13.2.3	The reduction in advance bank guarantee can be availed once in a year.	The reduction in advance bank guarantee can be availed twice in a financial year.
6.	Section-IV, GC cl. no. 13.3.3	Unless otherwise specified, the security shall be reduced by half on the date of the Operational Acceptance. The Security shall become null and void, or shall be reduced pro rata to the Contract Price of a part of the Facilities for which a separate Time for Completion is provided, five hundred and forty (540) days after Completion of the Facilities or three hundred and sixty five (365) days after Operational Acceptance of the Facilities, whichever occurs first; provided, however, that if the Defects Liability Period has been extended on any part of the Facilities pursuant to GC Sub-Clause 27.8 hereof, the Contractor shall issue an additional security in an amount proportionate to the Contract Price of that part. The security shall be returned to the Contractor immediately after its expiration, provided, however, that if the Contractor, pursuant to GC Sub-Clause 27.10, is liable for an extended defect liability obligation, the performance security shall be extended 60 days beyond the Defects Liability Period pursuant to GC Sub-Clause 27.10 and up to the amount 5%.	The security shall be returned to the Contractor immediately after its expiration, provided, however, that if the Contractor, pursuant to GC Sub-Clause 27.10, is liable for an extended defect liability obligation or pursuant to GC cl. 27.8 , the performance security shall be extended 60 days beyond the Defects Liability Period.
7.	Section-V, SCC cl. no. 15		New Clause Added (sr. no.15) The provision of Building and Other Construction Workers (BOCW) Cess, shall be taken into consideration by the bidders as per prevailing Act/Rules/ Regulations.
8.	Section-IV, GC cl. no. 22.2.7	The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service are available at all times at the Site and at any accommodation for	The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service or availability of any vehicle available for medical emergency at all times at the Site and at any accommodation for Contractor's and

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		Contractor's and Employer's Personnel, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.	Employer's Personnel, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.
9.	Section-IV, GC cl. no. 23.4	<p>The Contractor shall provide the Project Manager with a certified report of the results of any such test and/or inspection.</p> <p>If the Employer or Project Manager or their designated representatives fails to attend the test and/or inspection, or if it is agreed between the Parties that such persons shall not do so, then the Contractor may proceed with the test and/or inspection in the absence of such persons, and may provide the Project Manager</p>	<p>The Contractor shall provide the Project Manager with a certified report of the results of any such test and/or inspection.</p> <p>If the Employer or Project Manager or their designated representatives fails to attend the test and/or inspection, or if it is agreed between the Parties that such persons shall not do so, then the Contractor may proceed with the test and/or inspection in the absence of such persons, and may provide the Project Manager with a certified report of the results thereof.</p>
10.	Section-IV, GC cl. no. 30.1 (b)	the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.	The aggregate liability of the Contractor (including Parent/Holding Company, if applicable) to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.
11.	Section-IV, GC cl. no. 34.1	To the extent specified in the Appendix to the Contract Agreement titled Insurance Requirements, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix. Contractor shall have option either to have a single comprehensive insurance in one cover or separate insurances. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, who should not unreasonably withhold such approval.	To the extent specified in the Appendix to the Contract Agreement titled Insurance Requirements, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix. Contractor shall have option either to have a single comprehensive insurance in one cover or separate insurances. The insurance policy shall be arranged from the IRDAI approved underwriters.

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<p>12.</p>	<p>Section – VIII, Annexure– I and IA</p>	<p>BG format for EMD</p>	<p>Add the following last para in the Annexures at the end.</p> <p>Notwithstanding anything contained hereinabove our liability under this guarantee is restricted to(*)..... and it shall remain in force upto and including(@) and shall be extended from time to time for such period (not exceeding one year), as may be desired by M/s.....[Contractor"s Name] on whose behalf this guarantee has been given.</p> <p>*This sum shall be the amount specified towards bid security in the NIT</p> <p>@This date will be ninety days beyond the bid validity period.</p>
<p>13.</p>	<p>Section – VIII, Appendix – 1, cl. no. 3.0 (last para)</p>	<p>The advance shall be interest bearing which shall be based on yearly SBI Marginal Cost of funds-based Lending Rate (MCLR) plus margin of 200 basis points (to be compounded monthly).</p>	<p>The advance shall be interest bearing which shall be based on yearly SBI Marginal Cost of funds-based Lending Rate (MCLR) plus margin of 200 basis points (to be compounded annually).</p>
<p>14.</p>	<p>Section – VIII, Appendix – 3</p>	<p>c) Third Party Liability Insurance</p> <p>Covering bodily injury or death suffered by third parties (including the Employer’s personnel) and loss of or damage to property (including the Employer’s property and any parts of the Facilities which have been accepted by the employer) occurring connection with the supply and installation of the Facilities.</p>	<p>c) Third Party Liability Insurance</p> <p>Covering bodily injury or death suffered by third parties and loss of or damage to property occurring in connection with the supply and installation of the Facilities.</p>

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		<p>(e) Insurances to be taken by the Employer</p> <p>The employer shall at its expense take and maintain in effect during the performance of the Contract the following insurances.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Amount</th> <th style="text-align: center;">Deductible limits</th> <th style="text-align: center;">Parties insured</th> <th style="text-align: center;">From</th> <th style="text-align: center;">To</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;">-----NIL-----</td> </tr> </tbody> </table>	Amount	Deductible limits	Parties insured	From	To	-----NIL-----					<p>Insurances to be taken by the Employer</p> <p>NIL</p>
Amount	Deductible limits	Parties insured	From	To									
-----NIL-----													
15.	Section – VIII, Appendix – 1, cl. no. 1.2.1 (iii)	A copy of an irrevocable and unconditional Bank Guarantee for the amount equal to ten percent (10 %) of the Contract price towards Contract Performance Security initially valid till sixty (60) days after the expiry of defect liability period of the last equipment covered under the package <i>if not submitted earlier against Sr. No. 1.1.</i>	A copy of an irrevocable and unconditional Bank Guarantee for the amount equal to five percent (5%) of the Contract price towards Contract Performance Security initially valid till sixty (60) days after the expiry of defect liability period of the last equipment covered under the package <i>if not submitted earlier against Sr. No. 1.1.</i>										
16.	Section – VIII, Appendix – 1, cl. no. 6.1	An irrevocable Letter of Credit(LC) with usance period of 45 days (revolving type amounting to 1/6th of the total Ex-works price (Price Schedule-1) including corresponding taxes & duties shall be established from a reputed bank within sixty (60) days from the issuance of contract and providing of all information/details by supplier required for the establishment of the Letter of Credit.	An irrevocable Letter of Credit (LC) with usance period of 45 days (automatic revolving type amounting to 1/6th of the total Ex-works price (Price Schedule-1) including corresponding GST and limited to total Ex-Works Price (Schedule-1) plus corresponding GST, as applicable) shall be established from a reputed bank within sixty (60) days from the issuance of contract and providing of all information/details by supplier required for the establishment of the Letter of Credit.										
17.	Section-V, SCC cl. no. 4.0 (GC Clause 13.3.3)	Delete the Sub-Para. (GC Clause 13.3.3)	Modified the Sub-Para as per sr. no. 6 of Amendment – 1.										
18.	Section-VIII, Annexure-VIA, VIB and VIC	<p>NOTE: 1. This bank guarantee shall be submitted by Parent /Holding company.</p> <p>(*) This sum shall be three percent (5%) of the Contract Price.</p> <p>(@) This date will be sixty (60) days beyond the issuance of Defect Liability certificate.</p>	<p>NOTE: 1. This bank guarantee shall be submitted by Parent /Holding company.</p> <p>(*) This sum shall be Five percent (5%) of the Contract Price.</p> <p>(@) This date will be sixty (60) days beyond the issuance of Defect Liability certificate.</p>										

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19.	Section-VIII, Appendix-2	----	Revised Appendix-2 (Price Adjustment) has been attached.
20.	Section-VII, Attachment-15	-----	Revised Attachment-15 (Labour indices for Price Adjustment) has been attached.

Note: 1. The amount of Performance Guarantee shall be read as five percent (5%) of the Contract Price, wherever mentioned in the clauses of the bid document.

2. In Section-VII, Attachment-3, page no. 08 of 09, Last 3 years may be read as last 5 years.

3. As per sr. no. 19 of Technical Amendment, In Appendix – 1, under 1.5 D) (iii), the requisite documents (as built drawing and documents, O&M Manual, Technical Datasheets, Repair process/procedure manual for equipment/system, as built Relay settings, as built Settings for temperature, pressure, position, level, vibration, etc.) are required for following components only:

- i. Turbine and Governor.
- ii. Generator and Excitation
- iii. Busduct, GT and GIS
- iv. Protection and CMS
- v. LV, MV & DC System
- vi. DG Set and Fire Fighting System

Note:- Other documents of respective Chapters shall be submitted before defect liability period.

4. As specified at Sr. no. 1 & 2 of Technical Amendment, the bidders are required to include the prices of tools, tackles, instruments and earthing requirements (as per GTS Schedule B-1) in Price Schedule – I, accordingly.

**REVISED
PRICE ADJUSTMENT****Appendix – 2**

The Contract price shall be subject to price adjustment during performance of the Contract to reflect changes in the cost of labour and material components in accordance with the provisions described below:

1. APPLICABILITY: -

- (i) The price adjustment provisions shall be applicable separately for price components relating to Plant & Equipment **i.e. Price Schedule -1** and Installation works **i.e. Price Schedule -3** as per price break-up furnished by the Contractor in respective Schedules.
- (ii) The price adjustment shall be applied only if the resulting increase or decrease is more than 1% of the contract price as defined in the contract agreement.

2. EXTENT OF APPLICABILITY: -

- (i) Only following components of the Contract Price will be subject to Price adjustment:
 - a. 90 (Ninety) % Ex-Works prices for the plant and equipment (*If 10 % interest bearing advance is drawn*) **i.e. Price Schedule-1.**

100% (Hundred) % Ex-Works prices for the plant and equipment minus amount of advance, if drawn **i.e. Price Schedule-1**
 - b. Erection portion of Installation Price Component of Contract Price **i.e. Price Schedule -3.**
- (ii) The indices for price adjustment shall be well established and nationally recognized in the country of manufacture. Preferably Government indices shall be used.

3. PRICE ADJUSTMENT FORMULA: -

The price adjustment formula for the components of the contract price shall be as stipulated hereinafter.

3.1 EX-FACTORY IN CASE OF PLANT & EQUIPMENT *i.e.* PRICE SCHEDULE -1:

It is understood that the price component of the equipment or any shipment/ dispatch comprises a fixed portion (*designated as 'F' and the value of which is specified hereunder*) and variable portion linked with the indices for various materials and labour (*description and co-efficient as enumerated below*).

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The amount of price adjustment towards variable /recoverable on each shipment/ dispatch shall be computed as under (except for oil filled transformer) :

EC1 will be computed as follows :

$$EC1 = EC0 \left(F + a \frac{A1}{A0} + b \frac{B1}{B0} + c \frac{C1}{C0} + L_b \frac{L1}{L0} \right) - EC0$$

For Oil Filled Transformer the formula shall be as bellow:-

$$EC1 = EC0 \left(F + a \frac{C}{C_0} + b \frac{ES}{ES_0} + c \frac{IS}{IS_0} + d \frac{IM}{IM_0} + e \frac{TO}{TO_0} + L_b \frac{L1}{L_0} \right) - EC0$$

Where

EC1= Adjustment price component expressed in the currency of the contract payable to the contractor for each shipment/ dispatch.

EC0= 90% Ex-Works price for the equipment/materials excluding type test / Model test charges of the Contract shipment/dispatch wise.

- The fixed portion of the ex-factory component of the Contract price (F) shall be 0.15.
- a, b, c, etc. shall be co-efficient of major material/ items involved in the ex-factory Component of the Contract price.
- A, B, C etc. shall be published price indices of corresponding major materials/ items. Such indices shall necessarily be of the country of origin of goods.
- "L_b" shall be co-efficient for labour component in the ex-factory component of the Contract price.
- 'L' shall be labour index.

C0 = Price of CC copper rods

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ES0 = Price of CRGO Electrical Steel Lamination

IS0 = Average price of steel Plates 10 mm thick

IM0 = Price of Insulating Materials

TO0 = Price of Transformer Oil

L0 = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base: 2016 = 100)

Sum of all the material co-efficient and the labour co-efficient shall be 0.85.

Price Adjustment on Ex-factory prices for the plant and equipment shall be subject to a ceiling of $\pm 30\%$ (thirty percent) of Ex-Works component of the contract price respectively. The actual payment of escalation at any stage shall not exceed $\pm 30\%$ of cumulative Ex-Works of plant and equipment already supplied. Any escalation at any stage exceeding the aforesaid actual payment in either the Contract Price Component shall be kept to the credit of the contractor and shall be released as and when the actual payment of escalation falls below $\pm 30\%$ of cumulative Contract Price of plant and equipment already supplied, as the case may be. Any unadjusted credit shall however, lapse when the actual cumulative price adjustment payments reach the ceiling amount of $\pm 30\%$ of Contract Price component of the contract.

The price adjustment for Erection portion of installation component of contract price shall be without any ceiling

In case of shipments/dispatch which are delayed beyond the scheduled date of shipment/dispatch for reasons attributable to the Contractor the price adjustment provision shall not be applicable for the period of time between the scheduled date of shipment/dispatch and the actual date of shipments/dispatch. For this purpose, the scheduled date of shipment/dispatch shall be as identified in line with provisions of Time Schedule of Contract Agreement.

3.2 FOR ERECTION PORTION OF INSTALLATION PRICE COMPONENT OF THE CONTACT i.e. PRICE SCHEDULE -3:

- (a) It is understood that the price component for any erection portion of installation work comprises a fixed portion and variable portion linked with the index of labour (description and co-efficient as enumerated).

The monthly price adjustment amount for the erection portion of installation price component of the Contract Price will be computed to expatriate supervision/ labour as per the formula given below:

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For Indian Rupee portion of the Erection Portion of Installation Price

$$ER = ER1 - ER0$$

ER1 will be computed as follows:

$$ER1 = ER0 \left(F + L_E \frac{L1}{L0} \right)$$

Where:

- "F" The fixed component of Erection portion of installation component of Contract price and shall be 0.15
- 'L_E' shall be co-efficient for labour component of Erection portion of installation component of Contract price which shall be 0.85
- 'L' shall be labour index.

ER = Adjustment to Erection portion of installation component of contract price payable to the contractor for each billing.

ER1 = Adjusted amount payable to the Contractor of Erection portion of Installation component of Contract Price.

ER0 = Value of the Erection work done in the billing period, which shall be calculated as under:

For the purpose of computing ER0, each erection bill (which is excluding initial Advance and amount payable on completion of the Facilities and on successful completion of guarantee Test) during the Erection period Up to the 'Completion of the Facilities' shall be divided by a factor as indicated below:

{Erection Portion of installation component of the Contract Price - (Initial Advance amount + Erection Portion of Installation component of the Contract price payable on completion of the Facilities + Erection Portion of Installation component of the Contract Price payable on successful completion of guarantee test)} / Erection Portion of installation component of the Contract Price.

The payment of price adjustment amount so computed shall be made against a separate invoice, linking the corresponding invoice for Erection Portion of Installation payment after retaining the pro-rata amount due on completion of the Facilities and on Completion of the Guarantee Test. The amounts so retained shall be paid on completion of the Facilities and on successful completion of Guarantee Test respectively.

In case the billing period of Erection work falls beyond the time period identified for Completion of Facilities as per the Contract for the reasons

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attributable to the contractor, the price adjustment provisions shall not be applicable for the period of time between such date identified in the contract for the Completion of Facilities and actual completion period/date.

4. NON-APPLICABILITY PRICE ADJUSTMENT: -

It is expressly understood that the following components of the contract price shall not be subject to price adjustment and shall remain firm during the execution of the contract:

- (1) Local Transportation, Inland Transit Insurance (including port clearance & port charges for plant & equipment and Spare Parts) **i.e. Price Schedule-2**
- (2) Type Test/ Model Test Charges **i.e. Price Schedule -4A**
- (3) Training Charges **i.e. Price Schedule -4B**
- (4) Drawing and Documents **i.e. Price Schedule -4C**
- (5) EDMS Software **i.e. Price Schedule -4D**

5. SOURCE OF INDICES AND BASE VALUE: -

The source of applicable indices and their base values for the purpose of computing price adjustment under the contract shall be as under:

A. Mechanical Component

Ex-factory Price Component of the mechanical equipments covered in Chapter - 2,3,4,5,6,23,24, 25, 26 of Technical Specifications (excluding type test charges):

S. No.	Value of coefficient	Name of Material	Base Date Indices	Source of Indices
1.	a=0.50	Basic Metal	A=....	Whole sales price index number published by office of the Economic Advisor, Ministry of Industry, Government of India for the month.
2.	L _b =0.35	Labour	L=...	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

B. Electrical Component

Ex-factory Price Component of the Electrical equipment covered in Chapter 8, 9, 10, 12, 14, 15, 16, 17, 19, 20, 21, 22, 27, 28 & 29 of technical specifications (excluding type test charges):

S. No.	Value of coefficient	Name of Material	Base Date Indices	Source of Indices
1.	a=0.32	Basic Metal	A=....	Whole sales price index number published by office of the Economic Advisor, Ministry of Industry, Government of India for the month.
2.	b=0.18	Copper bar/ rods/ plates/ strips	B=....	Whole sales price index number published by

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				office of the Economic Advisor, Ministry of Industry, Government of India for the month.
3.	$L_b = 0.35$	Labour	$L = \dots$	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

C. Oil Filled Transformer

Ex-factory Price Component for oil filled transformer i.e. GT under Chapter 11 of Technical Specifications (excluding type tests charges):

S. No.	Value of coefficient	Name of Material	Base Date Indices	Source of Indices
1.	$a = 0.30$	Copper Rod	$C = \dots$	IEEMA
2.	$b = 0.25$	CRGO Electrical steel Lamination	$ES = \dots$	IEEMA
3.	$c = 0.09$	Steel Plate 10mm thick	$IS = \dots$	IEEMA
4.	$d = 0.02$	Insulating Material	$IM = \dots$	IEEMA
5.	$e = 0.09$	Transformer Oil	$TO = \dots$	IEEMA
6.	$L_b = 0.10$	Labour	$L = \dots$	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

D. Cables (with copper conductor)

Ex-factory Price Component of Power, control, instrumentation cables covered in Chapter 13 & 18 of Technical specifications (excluding type test charges):

S. No.	Value of coefficient	Name of Material	Base Date Indices**	Source of Indices
1.	$a = 0.10$	Basic Metals	$A = \dots$	IEEMA
2.	$b = 0.32$	Copper	$B = \dots$	IEEMA
3.	$c = 0.08$	PVC/XLPE compound (insulation)	$C = \dots$	IEEMA
4.	$L_b = 0.35$	Labour	$L = \dots$	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

E. Cables (with Aluminum conductor)

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Ex-factory Price Component of Power, control, instrumentation cables covered in Chapter 18 of Technical specifications (excluding type test charges):

S. No.	Value of coefficient	Name of Material	Base Date Indices	Source of Indices
1.	a= 0.15	Basic Metals	A=....	IEEMA
2.	b=0.25	Aluminum	B=....	IEEMA
3.	c=0.1	PVC/XLPE compound (insulation)	C=....	IEEMA
4.	L _b =0.35	Labour	L=...	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

F. Installation price component

S. No.	Item	Base Date Indices	Source
1.	Labour	F=.....	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

The above information shall be filled compulsorily.

-For A,B,C & L

Subscript '0' refers to indices as on 30 days prior to date of bid opening (for supply & services).

Subscript '1' refers to indices as of (for supply):

(a) Three months prior to the date of shipment/dispatch for labour, **and**

(b) at the expiry of two third (2/3) period from the date of notification of award to the date of shipment/dispatch for material. For the purpose of this clause the date of shipment/dispatch shall mean the contract date of shipment/dispatch or actual date of shipment/dispatch, whichever is earlier.

Subscript '1' refers to indices as of (for service):

L2 Date or actual date (for EOT attributable to employer) based on Completion Certificate issued by EIC on signing of all protocols i.r.o EM Erection/Installation/Commissioning activities etc. i.e equipment/ component/ system/ sub-system as the case may be.

REVISED**ELECTRO MECHANICAL PACKAGE FOR
SUNNI DAM HYDRO ELECTRIC PROJECT (382 MW)****(Labour and Material indices for price adjustment)**

Bidder's Name and Address:

To

Executive Director
Electrical Contracts Deptt.
SJVN Ltd,
SJVN Corporate Head Quarter,
Shanan, Shimla
Himachal Pradesh, India.

Dear Sir,

We hereby furnish the relevant details pertaining to the price adjustment provisions in your specifications and documents.

Equipment price component

A. Mechanical Component

Ex-factory Price Component of the mechanical equipments covered in Chapter - 2,3,4,5,6,23,24, 25, 26 of Technical Specifications (excluding type test charges):

S. No.	Value of coefficient	Name of Material	Base Date Indices**	Source of Indices
1.	a=0.50	Basic Metal	A=....	Whole sales price index number published by office of the Economic Advisor, Ministry of Industry, Government of India for the month.
2.	L _b =0.35	Labour	L=...	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

B. Electrical Component

Ex-factory Price Component of the Electrical equipments covered in Chapter 8, 9, 10, 12, 14, 15, 16, 17, 19, 20, 21, 22, 27, 28 & 29 of Technical specifications (excluding type test charges):

S. No.	Value of coefficient	Name of Material	Base Date Indices**	Source of Indices
1.	a= 0.32	Basic Metal	A=....	Whole sales price index number published by office of the Economic Advisor, Ministry of Industry, Government of India for the month.
2.	b=0.18	Copper bar/rods/ plates/ strips	B=....	Whole sales price index number published by office of the Economic Advisor, Ministry of Industry, Government of India for the month.
3.	L _b =0.35	Labour	L=...	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

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C. Oil Filled Transformer

Ex-factory Price Component for oil filled transformer i.e. GT under Chapter 11 of Technical Specifications (excluding type tests charges):

S. No.	Value of coefficient	Name of Material	Base Date Indices**	Source of Indices
1.	a= 0.30	Cc Copper Rod	C=.....	IEEMA
2.	b=0.25	CRGO Electrical Steel Lamination	ES=.....	IEEMA
3.	c=0.09	Steel Plate 10mm thick	IS=.....	IEEMA
4.	d=0.02	Insulating Material	IM=....	IEEMA
5.	e=0.09	Transformer Oil	TO=.....	IEEMA
6.	L _b =0.10	Labour	L=....	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

D. Cables (with copper conductor)

Ex-factory Price Component of Power, control, instrumentation cables covered in Chapter 13 & 18 of Technical specifications (excluding type test charges):

S. No.	Value of coefficient	Name of Material	Base Date Indices**	Source of Indices
1.	a= 0.1	Basic Metals	A=....	IEEMA
2.	b=0.32	Copper bar/rods/ plates/strips	B=....	IEEMA
3.	c=0.08	PVC/XLPE compound (insulation)	C=....	IEEMA
4.	L _b =0.35	Labour	L=...	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

E. Cables (with Aluminum conductor)

Ex-factory Price Component of Power, control, instrumentation cables covered in Chapter 18 of Technical specifications (excluding type test charges):

S. No.	Value of coefficient	Name of Material	Base Date Indices**	Source of Indices
1.	a= 0.15	Basic Metals	A=....	IEEMA
2.	b=0.25	Aluminum	B=....	IEEMA

Bid Document for EM Works of Sunni Dam HEP 382 MW No. SJVN/CHQ/ECD/SDHEP/EMP/2024	Section-VII (Attachments)	Page 2 of 3
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AMENDMENT - 1 (COMMERCIAL)

3.	c=0.1	PVC/XLPE compound (insulation)	C=....	IEEMA
4.	L _b =0.35	Labour	L=...	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

F. Installation price component

S. No.	Item	Base Date Indices**	Source
1.	Labour	L _E =.....	All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India.

The above information shall be filled compulsorily.

**** Base date of indices shall be taken as thirty (30) days prior to the deadline for submission of bids.**

Sum of all material co-efficient and labour co- efficient shall be **0.85**

Date : (Signature).....

Place : (Printed Name).....

(Designation).....

(Common Seal).....

Notes:

- Continuation sheets of like size & format may be used if required.
- Indices values shall be supported by documentary evidence.

Bid Document for EM Works of Sunni Dam HEP 382 MW No. SJVN/CHQ/ECD/SDHEP/EMP/2024	Section-VII (Attachments)	Page 3 of 3
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CLARIFICATION (COMMERCIAL) - 1

CLARIFICATION (COMMERCIAL) - 1

Electro Mechanical Works of Sunni Dam HEP (382 MW)

Sl.No.	Section/Clause No.	Subject	Tender stipulation	Queries / Clarification	SJVN's Reply
1	General	Editable Copy of Tender Documents		M/s SJVN is requested to provide the editable copy of Section-VII Letter of Tender, Attachments and Bid Price Schedules & Section -VIII Contract Form & Procedure	Shall not be provided.
2	General	Clearances		Kindly provide the status of all clearance like environment, forest ,wildlife etc. and required land for the project . Also, kindly inform status of Financial Closure of the project.	Environment Clearance: Granted Forest Clearance Stage – II: Granted Wildlife Clearance: Wildlife Clearance is not required, as SDHEP does not fall in the Wild Life area . Financial Closure of the project has been acheived.
3	Section 1, General Technical Specification (GTS)/ 1.10. Civil Works	Civil Works	Civil Works mentioned anywhere in the tender document	We request customer to exclude civil works of any nature from E&M works scope. We request M/s SJVNL to kindly confirm.	Bid provision shall prevail.
4	Section 1, General Technical Specification (GTS)/1.11 Training of Engineers	1.11 Training of Engineers	The scope of work shall also include the training of engineers at the works of respective suppliers for the equipment / system specified herein: <input type="checkbox"/> Turbine and Governor <input type="checkbox"/> Generator and excitation system <input type="checkbox"/> GIS <input type="checkbox"/> Control & Protection System <input type="checkbox"/> EOT Crane	We understand that all other expenditure apart from training including that towards living / boarding & travelling (to & fro) shall be borne by SJVN. Kindly note that no discount in price shall be offered in case training is not availed. Kindly confirm.	Bid provision shall prevail.
5	Section 1, General Technical Specification (GTS) /1.12 Selection of Sub-Vendor for Bought out items (Bol) and Bought out Services (BoS)	Sub-Vendor approval of Bol or/and BoS		As per Government of India Guidelines to CPSEs, all CPSEs to register themselves on Gem portal and procurement of Goods and services are mandatory from GeM for which product/ service categories are available on GeM. Tentative list of vendors as on date of submission of bid, shall be submitted alongwith Bid, however vendor list may vary at the time of execution of the project. Also confirm that bidder shall also be allowed to propose additional vendors / sub-contractors after award of contract/ during the execution of the contract.	Bid provision shall prevail.
6	Section 1: General Technical Specifications Annexures (GTS)/Specified Duration for interface activities of E&M	Sr No 4 E&M Works i.e. Generator Erection & Boxing up by E&M Contractor		Duration; specified for acitivtes mentioned against Sr no 4; is on lower side wrt to quantum of work executed in this acivity. We request customer to please review and increase the duration considered for as per attached sheet We request M/s SJVNL to kindly confirm.	Bid provision shall prevail.
7	Section-I Press Notice, NIT, IFB/Bid Security	Bid Security (INR)	Rs. 16.72 Cr.	We request M/s SJVN to accept bid security declaration instead of Bid security. Please confirm.	Bid provision shall prevail.
8	Section-I Press Notice, NIT, IFB/Completion Period Section VIII - Contract Forms/Appendix 4	Completion Period (Months) Time Schedule	43 months Time to complete the facilities is as follows from the effective dates: - First (1st) Unit commissioning (73MW) : 40.5 months Second (2nd) Unit commissioning(73MW) : 41 months Third (3rd) Unit commissioning (73MW) : 41.5 months Fourth (4th) Unit commissioning (73MW) : 42 months Fifth (5th) Unit commissioning (73MW) : 42.5 months Sixth (6th) Unit commissioning (17MW) : 43 months Note: First Unit means any unit of 73 MW and Second Unit means second of 73 MW and so on. No alternative time schedule is acceptable.	There is possibility of Land slides and blockade on highway and other approach roads during winter seasons. Also considering the cycle of model test, design, engineering, procurement, manufacturing and E&C , We request SJVN to kindly review and increase the time span of project completion from 43 months to at least 60 months. Please confirm.	Bid provision shall prevail.

CLARIFICATION (COMMERCIAL) - 1

9	Section-I Press Notice, NIT, IFB and Section-II, ITB/3.0 The Integrity Pact /3. Eligible bidders (3.3)	The Integrity Pact	To improve transparency and fairness in the tendering process the Employer is implementing Integrity Pact. The Integrity Pact, signed by all the prospective Bidders and the Employer, shall commit the persons/officials of both the parties, not to exercise any corrupt /fraudulent/collusive/coercive practices in the Tendering process and also during implementation of the Contract. Only those Bidders who have entered into Integrity Pact with the Employer shall be eligible to participate in the bidding process. Entering into Integrity Pact is a basic qualifying requirement. In case of JV, each partner of JV shall sign Integrity Pact with the Employer. The Bidder shall sign an Integrity Pact with the Manufacturer(s) on the similar lines as signed by him with the Employer. Bidders signing Integrity Pact shall not approach the courts while representing the matter to IEMs and he/she will await the decision in the matter.	SJVN is requested to confirm the value of Non-Judicial Stamp paper on which Integrity pact shall be executed after signing of Bid. Please delete the below paragraph from the said clause; "Bidders signing Integrity Pact shall not approach the courts while representing the matter to IEMs and he/she will await the decision in the matter."	Integrity pact shall be executed after signing of Bid Non-Judicial Stamp paper of Rs. 100 value. Being standard the paragraph as requested cannot be deleted. Hence, in this regard bid provision shall prevail.
10	Section-I Press Notice, NIT, IFB and Section-II, ITB/4.4 Bid Capacity 5.5.4 Bid Capacity		The available Bid Capacity of the bidder of the date after NIT, calculated as under should not be less than INR 836.18 Cr.: - Available Bid Capacity = 2.0 x A x N - B, B = Value of existing commitments (on the date after NIT) and ongoing works to be completed in the next 'N' years."	a)Please clarify weather the value of Bid capacity i.e INR 836.18 Cr. is inclusive or exclusive of GST. b)It is submitted that the value of B (i.e.Value of existing commitments (on the date after NIT) is not possible as in PSUs company's financial results are published on quarterly basis. Accordingly, SJVN is requested to allow value of B in given formula (as on previous quarter)	a) The value of Bid capacity i.e INR 836.18 Cr. is exclusive of GST. b) Bid provision shall prevail. (Pl. ref. Attachment-3, Section –VIII)
11	Section-I Press Notice, NIT, IFB/	Bid Submission	Bidder needs to login on SJVN tendering portal i.e. https://etender.sjvn.co.in Search tender by filling necessary searching criteria after Login. Please refer to attach document of "Bidder User manual".	We request M/s SJVN kindly provide Bidder User Manual.	The Bidder Manual is attached herewith. Furthermore, the Bidder User Manual is also available on SJVN e-tendering portal.
12	Section-I Press Notice, NIT, IFB /6.0 The key particulars/details and dates of this invitation are as under	Venue, Time and date of the pre bid meeting (only in Physical mode)	Venue: Conference Hall, Electrical Contract Department, SJVN Corporate Head Quarter,, Shakti Sadan, Shanan, Shimla – 171006 (H.P.) Date: 19.09.2024. Time: 1130 Hrs.	It is submitted that BHEL manufacturing units are located all over India and to ensure physical participation from each units is not feasible. Hence, we request SJVN hold online Pre-bid meeting through (VC) so that prebid meeting can be attended by all concerned in BHEL. Please confirm.	Bid provision shall prevail.
13	Section-I Press Notice, NIT, IFB/6.0 The key particulars/details and dates of this invitation are as under	Deadline for submission of bids	1. Online submission 28.10.2024 (1300 Hrs.) 2. Offline submission 04.11.2024 (1800 Hrs.) (Hard Copy)	We request M/s SJVN to provide at least 6 - 8 weeks' time for preparation and submission of bid after issue of all pre-bid replies to clarifications by M/s SJVN.	Requested noted. However, information in this regard shall be intimated separately through amendment, if required.
14	Section-I Press Notice, NIT, IFB/7	Transporation Route	Transportation of equipment at Project site area	We request employer to extend all help during transportation of equipment in the project area by providing dozers, pullers from civil agency free of cost, if required. Please confirm.	Bid provision shall prevail.
15	Section-I Press Notice, NIT, IFB/8.0	Bidder's Responsibility:	Minor work (illustrative lists are: permit/ liaison with Administration/ handling of Electric & telecom poles, civil works like filling, temporary arrangement on bridge/ culvert etc.) for transportation of EM equipments along the route shall be in Bidders' responsibility.	a)In case of requirement of Road Permit for supply of goods including BOIs / DD items in State, the same shall be provided by SJVN. Any document required for transportation of equipment/material envisaged in the Bidding Document shall be provided by SJVN during execution. b)Handling of Electric & telecom poles, civil works like filling, temporary arrangement on bridge/ culvert etc. to be taken care by the employer. Please confirm.	Bid provision shall prevail.
16	Section-I Press Notice, NIT, IFB/9.0	OTHER LOGISTIC INFRASTRUCTURE	The Contractor shall establish facilities such as Site Office, Storage facility (Covered & Stockyard etc), Contractors Camp/Colony, Sanitation, Wireless communication system, internet facilities for smooth and effective monitoring & execution of EM work at site at his own Cost.	Facilities shall be created at site during project execution however, levelled land required for the same shall be provided by SJVN to BHEL free of cost. Please confirm.	Bid provision shall prevail.
17	Section-I Press Notice, NIT, IFB/11.0	Water	It is expressly understood that water supplies, sanitation etc. shall be arranged by contractor at his own cost.	SJVN is requested to provide Domestic and Construction water (i.e. drinking water and water for hydro test of component like Spiral casing and embedded pipelines etc.) free of cost. Please confirm.	Bid provision shall prevail.
18	Section-I Press Notice, NIT, IFB/13.0	TEMPORARY POWER AND LIGHTING	The work relating to all temporary lighting and power facilities required for the installation work shall be carried out by the Contractor under this contract and shall be included by the Contractors in their offer.	Temporary lighting for installation work shall be carried by bidder related to their work area. However, overall temporary lighting of complete power house during construction is responsibility of owner/civil agency. Please confirm.	Bid provision shall prevail.
19	Section-I Press Notice, NIT, IFB/15.0	Civil Works	However, the Contractor shall provide design data for foundations and install the inserts/embedment; support steels and/or components for foundation /supports purpose, shall perform minor civil work such as any chipping / levelling works, denting / painting etc. & Civil Works of Pole lighting of Illumination Section.	We request employer to delete civil works from the scope of E&M works. Bidder shall provide cabeling for the equipment in its scope only. Any other requirement pertaining to third party /owner's equipment shall be carried out by other parties. In case, any help is required for interface assistance shall be given, however responsibility for the same shall lie with concerned party. Please confirm	Bid provision shall prevail.

CLARIFICATION (COMMERCIAL) - 1

20	Section-I Press Notice, NIT, IFB/17.0	Earthing Works	Employer shall be responsible for laying for Earthing Grid/Mat including provision of Risers in all floors, Yard of Power House area (Power House, PHY and TRT), Dam area, FF & CW tanks etc. Contractor shall design and provide Two (02) no Earthing terminals for each equipment (whose earthing is compulsory as per regulation, technical requirement or/and safety requirement) of these specifications. Contractor shall be responsible for connecting all EM equipment under this package of earthing terminals to Risers of Earthing Grid/Mat.	Being E&M contractor, it will not be feasible for us to do any kind of civil work. However, we shall intimate SJVN about the required civil works needed for installation of E&M equipment in PH. Such civil works may kindly be executed by SJVN through already deputed civil agency at their end. Besides, "Employer shall be responsible for laying for Earthing Grid/Mat including provision of Risers in all floors, Yard of Power House area (Power House, PHY-1 & PHY-2 and TRT), Dam area, FF & CW tanks etc" Contractor scope is only design and connecting the earthing terminals of EM equipment to risers of earthing mat. Accordingly, we understand that no civil work related to earthing work is in scope of E&M Contractor. Please confirm.	Bid provision shall prevail.
21	Section-II, ITB Section-VII, Attachments/13. Documents Comprising the Bid Attachment-15	Attachment 15: Labour and Material indices for price adjustment.	Bidder shall provide the requisite indices as indicated under price adjustment clause.	In the given price adjustment formula, bidder is required to furnish value of coefficient, which can brought substantial change in bid price of each bidder during execution stage. In order to bring uniformity at evaluation as well as execution stage among all bidders, we request SJVN to fix value of coefficient in each price adjustment formula at their end. Kindly provide value of coefficient.	Corresponding appendix and attachment has been revised and are part of Amendment.
22	Section-II, ITB/15. Price Schedule	h) GST or any other tax if any,	(h) The bidder shall quote the prices inclusive of all duties, taxes and other levies except GST and after considering the input credit available, if any.	We request SJVN to kindly confirm applicability of taxes & duties with percentage so that all bidders can quote their prices be at par. Kindly also indicate any other tax i.e. apart from GST applicable in state for supply and service of E&M works.	Bid provision shall prevail and bidder has to ascertain themselves in this regard.
23	Section-II, ITB/15. Price Schedule	Online Submission & Offline Submission	All instructions in this respect contained in Section- II (Instructions to Bidders) and Addenda, if any, shall be followed. The Envelope-I and Envelope-II are to be uploaded online only. Further, the documents listed under clause 21.6 of ITB, shall be submitted in hard copy to the Employer.	We understand that hard copy of the bid is not required to be submitted except documents mentioned at clause no.21.6. We request you to kindly confirm the total capacity (MB) limit for uploading of documents. Kindly confirm. Further we understand that Signed Tender document is not required to be uploaded/submitted physically. Kindly confirm.	There is no limit of no. of documents to be uploaded, however the document should be of maximum 5 MB only. It is confirmed that signed document are not required to be uploaded/submitted physically as the provision in this regard already exists at Sr.no.1 of Letter of Tender wherein the bidder gives his confirmation towards the conditions of bid document.
24	Section-II, ITB/15. Price Schedule/30. Evaluation And Comparison Of Bids	Adjustment Factor for Bid Evaluation	Evaluation And Comparison Of Bids: Adjustment Factor for Bid Evaluation A) Weighted Average Efficiency of Turbine & Generator : Against 73 MW Unit - 7,50,000/- per unit for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidderin their bid. Against 17 MW Unit - 1,50,000/- per unit for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder their bid. Transformer Losses : INR 1,75,000/- per transformer (for total losses = no load losses+ load losses + auxiliary losses) for each KW by which the Transformer losses quoted by the bidder exceeds over the least amount of losses quoted in one of the responsive bids.	The proposed adjustment factor during bid-evaluation stage is very much on the higher side . Hence, it is requested to please review and amend the same as per details bellow . A) Weighted Average Efficiency of Turbine & Generator : Against 73 MW Unit- INR 4,00,000 per turbine for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder Against 17 MW Unit - INR 1,00,000 per turbine for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder C) Transformer Losses : Normally not considered for evaluation so please delete this accordingly.	Bid provision shall prevail.
25	Section 1, General Technical Specification (GTS)/FUNCTIONAL GUARANTEE SCHEDULE	Annexure - A		The proposed rate of Evaluation, Penalty and Rejection Criteria as envisaged in the tender may please be reviewed and amended in accordance with point no. 28 above. Kindly confirm.	Bid provision shall prevail.
26	Section-II, ITB/30. Evaluation And Comparison Of Bids	30.4 E-Reverse	After arriving at L1 evaluated bid price through e-tender, the qualified bidders shall participate in E-Reverse auction process as follows:	We submit that already L1 bidder has been established through competitive bidding. Therefore ,E-Reverse auction may not be insisted. Kindly delete this clause.	Bid provision shall prevail.
27	Section-II, ITB/30. Evaluation And Comparison Of Bids	30.4 E-Reverse	III. Eligible bidders at Price Bid stage is 2 or more than 2, then e-RA process will be followed after e-tendering provided that the Evaluated Bid Price (including taxes & duties and loading of differential prices on account of guaranteed loss, efficiency, production capacity etc.) of the lowest evaluated techno commercially responsive bidder is higher with respect to Approved Cost Estimate, as hereunder More than 7.5% for a Package having Approved Cost estimate upto Rs 200 Cr. More than 5% for a Package having Approved Cost estimate more than Rs 200 Cr and upto Rs 500 Cr. More than 2.5% for a Package having Approved Cost estimate above Rs 500 Cr.	SJVN is requested kindly arrange to provide approved Cost estimate of E&M works.	Information regarding Cost estimate shall be provided before bid submission date.

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28	Section-IV, GC/1. Definitions	1.22 Effective Date	Effective Date for Determining Time for Completion of the contract shall be determined from the date of Notification of Award provided all of the following conditions are fulfilled within a period of two (2) months from the date of issuance of Letter of Acceptance:	Kindly accept the Effective Date means the date of signing of the Contract Agreement between the Employer and the Contractor.	Bid provision shall prevail.
29	Section-IV, GC/7. Scope of Facilities	7.3 Scope of Facilities	The Contractor shall carry sufficient inventories to ensure an ex-stock supply of consumable spares for the Plant. Other spare parts and components shall be supplied as promptly as possible, but at the most within six (6) months of placing the order. In addition, in the event of termination of the production of spare parts, advance notification will be made to the Employer of the pending termination, with 12 months time to permit the Employer to procure the required spare parts. Following such termination, the Contractor shall provide at no cost to the Employer the blueprints, drawings and specifications of the spare parts, if requested.	Please rephrase the sentence "other spare parts and components shall be supplied as promptly as possible, but at the most within six (6) months or in case of long lead items duration to be mutually agreed. Please confirm.	Bid provision shall prevail.
30	Section-IV, GC/9. Contractor's Responsibilities	9.3 Contractor's Responsibilities	The Contractor shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located which such authorities or undertakings require the Contractor to obtain in its name and which are necessary for the performance of the Contract, including, without limitation, visas for the Contractor's and Subcontractor's, manufacturer's, personnel and entry permits for all imported Contractor's Equipment. The Contractor shall acquire all other permits, approvals and/or licenses that are not the responsibility of the Employer under GC Sub-Clause 10.3 hereof and that are necessary for the performance of the Contract.	In case of requirement of Road Permit /or any other requisite document required for supply of goods including for BOIs / DD items in State, the same shall be provided arranged by SJVN. Please confirm.	Bid provision shall prevail.
31	Section-IV, GC	10.2 Employer's Responsibilities	The Employer shall be responsible for acquiring and providing legal and physical possession of the Site and access thereto, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way, as specified in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer. The Employer shall give full possession of and accord all rights of access thereto on or before the date(s) specified in that Appendix.	We request SJVN to provide timely possession. Further, during execution of contract, upgradation and maintenance of all roads for access to and within Power House shall be in the scope of SJVN Please confirm.	Bid provision shall prevail.
32	Section-IV, GC/11 Contract Price	11.1 Contract Price	The Contract Price shall be as specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement.	Please define type of contract i.e single or multi contract.	Single contract
33	Section-IV, GC/11 Contract Price	11.4 & 11.5 Contract Price	11.4 Any sum of money due and payable to the Contractor (including Performance Guarantee returnable to him) under this Contract may be appropriated by the Employer and set off against any claim of the Employer out of or under any Contract made by the Contractor with the Employer 11.5 It is an agreed terms of the Contract that the sum of money so withheld if retained under this clause by the Employer shall be kept, withheld or retained as such by the Employer till the claims arising out of in the same Contract are either mutually settled or determined by the arbitrator, and the Contractor shall have no claim for interest or damage whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the Contractor.	We request to remove sub-clause 11.4 & 11.5. Money to be adjusted only under the same contract (i.e. Sunni Dam Contract) and not from any other contract.	Bid provision shall prevail.
34	Section-IV, GC/13. Securities	13.2.3 Advance Payment Security	13.2.3 The reduction in advance bank guarantee can be availed once in a year.	The advance bank guarantee shall be reduced once in every six months. Request SJVN to accept for same.	Please refer Amendment..
35	Section-IV, GC/13. Securities	13.3.4 & 13.3.5 Performance Security	13.3.5 In case the contractor fails to submit the performance security within the above period, liquidated damages (to be calculated at the rates charged by the bank for issuing the BG submitted by the supplier) shall be charged for the delayed period.	Plaeae delete clause "13.3.5. Further kindly add under metioned clause : In case of delay in completion of project for reason not attributable to Contractor, BG charges along with taxes & duties shall be paid to contractor for extended period. SJVN is also requested to return the Performance Security immediatly after expiry of the Contract.	Bid provision shall prevail. (Please refer Appendix-9).
36	Section-IV, GC/14. Taxes and Duties	14.2 Taxes and Duties	If any tax exemptions, reductions, allowances or privileges may be available to the Contractor in the country where the Site is located, the Employer shall use its best endeavors to enable the Contractor to benefit from any such tax savings to the maximum allowable extent.	SJVN is requested to inform, if any exemption is available for the project. Further, to enable contractor avail any tax exemption, SJVN is requested to provide requisite Forms/ documents (if any). Please Confirm.	Any tax exemption is to ascertained by Contractor.
37	Section-IV, GC/14. Taxes and Duties	14.3 Taxes and Duties	If any rates of Tax are increased or decreased, a new Tax is introduced, an existing Tax is abolished, or any change in interpretation or application of any Tax occurs in the course of the performance of Contract, which was or will be assessed on the Contractor, Subcontractors or their employees in connection with performance of the Contract, an equitable adjustment of the Contract Price shall be made to fully take into account any such change by addition to the Contract Price or deduction there from, as the case may be, in accordance with GC Clause 36 hereof.	Please confirm, if aforesaid changes shall be applicable for contract period (Completion period) or during extension also. Please confirm.	If EOT is granted for any reason mentioned under Cl.40.1 of bid document. However, in case EOT is granted due to delay on Contractor's part then the provisions shall not be applicable.

CLARIFICATION (COMMERCIAL) - 1

38	Section-IV, GC/19.1	19.1 Subcontracting	The corresponding attachment (list of sub-contractor) specifies major items of supply or services and a list of sub-contractor including vendors. The Employer reserves the right to delete any proposed sub-contractor from the list prior to award of contract. The contractor may from time to time propose any addition to or deletion from any such list. The Contractor shall submit any such list or any modification thereto to the Employer for its approval in sufficient time so as not to impede the progress of work on the facilities. The Contractor shall select and employ its Subcontractors for such major items from those listed in the list.	As per Government of India Guidelines to CPSEs, all CPSEs to register themselves on Gem portal and procurement of Goods and services are mandatory from GeM for which product/ service categories are available on GeM. Tentative list of vendors (as applicable as on date of submission of bid), shall be submitted alongwith Bid, however vendor list may vary at the time of execution of the project.	Bid provision shall prevail.
39	Section IV: General Condition (GC)/22. Installation	22.2	The Contractor is encouraged to use local labor that has the necessary skills.	Noted. However, since nature of E&M work is highly skilled and specialized job and requires experienced staff/labour which are deployed by our sub-contractor at site. Applicability of clause 11.0 may be removed or not applicable for E&M works. Kindly confirm.	Bid provision shall prevail.
40	Section-IV, GC	22.2.6 Facilities for Staff and Labor	Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel. The Contractor shall also provide facilities for the Employer's Personnel as stated in the Specification. The Contractor shall not permit any of the Contractor's Personnel to maintain any temporary or permanent living quarters within the structures forming part of the Permanent Works.	We are not clear about clause "The Contractor shall also provide facilities for the Employer's Personnel as stated in the Specification.". We understand that SJVN will be available at site during execution and subsequent period of Generation and shall be creating facilities (accomodation, medical, welfare etc) for thier personnel. Hence, kindly delete this line. Further, we request SJVN to extend same facilities to contractor's personnel also. Kindly confirm.	Bid provision shall prevail.
41	Section-IV, GC/22. Installation	22.2.7 Health and Safety	The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service are available at all times at the Site and at any accommodation for Contractor's and Employer's Personnel, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics..	Maintaining all time ambulance at site by EM contractor will not be possible. Kindly suitably modify this clause.	Ambulance service refers to availability of vehicle for medical emergency. Suitable amendment is being issued in this regard.
42	Section-IV, GC/22. Installation	22.2.11 Supply of Water	The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.	We request SJVN to provide construction water as well as potable water for labor and other personnel at the worksite /colony free of cost.	Bid provision shall prevail.
43	Section-IV, GC/22. Installation Section-I Press Notice, NIT, IFB/16	22.7 Site Clearance	22.7.1 Site Clearance in Course of Performance: In the course of carrying out the Contract, the Contractor shall keep the Site reasonably free from all unnecessary obstruction, store or remove any surplus materials, clear away any wreckage, rubbish or temporary works from the Site, and remove any Contractor's Equipment no longer required for execution of the Contract. 22.7.2 Clearance of Site after Completion: After Completion of all parts of the Facilities, the Contractor shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site and Facilities in a clean and safe condition.	Site Clearance in Course of Performance: Clearance of Site after Completion: We understand that site clearance only for the materials supplied under E&M package is in the scope of present tender. Also, all the scrap materials generated during erection and commissioning and surplus materials left after completion of facilities shall be the property of contractor. We understand that surplus material left out after completion of E&M works shall remain the property of E&M Contractor and after completion of the project, E&M Contractor shall be free to remove surplus material and take it away from the project site. Also E&M Contractor shall remain owner of packing material/containers (wooden/iron etc) and shall be free to remove packing material and take it away from the project. We request M/s SJVNL to kindly confirm.	Bid provision shall prevail. SJVN shall be the owner of packing material/containers (wooden/iron etc).
44	Section-IV, GC/22. Installation	22.8 Watching and Lighting	Watching and Lighting	We understand that outside power house, watching and lighting shall be required at E&M stores only. Kindly confirm.	Watching and Lighting shall be required outside power house and E&M stores.
45	Section-IV, GC/25. Commissioning and Operational Acceptance	Commissioning and Operational Acceptance	Commissioning and Guarantee Test	We request SJVN to provide commissioning power during commissioning & guarantee test of machines free of cost.	Bid provision shall prevail. The same shall be treated as per Govt. guidelines.
46	Section-IV, GC/25. Commissioning and Operational Acceptance	Commissioning and Operational Acceptance	Commissioning and Guarantee Test	We request SJVN for conducting field efficiency & output tests by contractor on one machine only in line with industry practice. Kindly confirm.	Bid provision shall prevail.
47	Section-IV, GC/25. Commissioning and Operational Acceptance	Delayed Pre-commissioning and/or Guarantee Test	25.5.3 In the event that the period of suspension under above Sub-Clause 25.5.1 actually exceeds one hundred eighty (180) days, the Employer and Contractor shall mutually agree to any additional compensation payable to the contractor.	In the event that if project gets delayed for reason not attributable to contractor for any reason for cumilative period of more than 180 days, Contractor will be suitably compensated for delayed period (including cumilative period of 180 days) and Employer will release compensation payment before the start of work.	Bid provision shall prevail. (Please refer Appendix-9).

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48	Section-IV, GC/26. Completion Time Guarantee	26.2 Completion Time Guarantee	Liquidated Damages shall be payable for delay in completion of commissioning of any Unit @ of 0.05% of the price of each unit for a delayed period of 1(one) day or part thereof with a maximum limit for each unit as 10% price of each unit.	The rate at which liquidated damages is to be computed is very much on the higher side. Generally for other E&M Tender the rate at which liquidated damages are calculated is 0.05% of the contract price per week per unit. Please review & amend. Any GST liability on account of levy of Liquidated damages shall be borne by Employer. Kindly confirm	Bid provision shall prevail. The same shall be treated as per Govt. guidelines.
49	Section-IV, GC/27. Defect Liability	27.2 Defect Liability	The Defect Liability Period shall be five hundred and forty (540) days from the date of Completion of the Facilities (or any part thereof) or one year from the date of Operational Acceptance of the Facilities (or any part thereof), whichever first occurs, pursuant to GC Sub-Clause 27.10.	In the event project gets delayed for reasons not attributable to contractor for any reason then extended Defect liability shall be given by Contractor against additional warranty charges for delayed period. In case of delay in commissioning of project, defect liability period shall be deemed to be completed within 24 months from last major despatch of equipment.	Covered under Appendix-9. 2nd point is not acceptable.
50	Section-IV, GC/32.1 Care of Facilities	Care of Facilities	The Contractor shall be responsible for the care and custody of the Facilities or any part thereof until the date of issuance of Operational Acceptance Certificate pursuant to GC Clause 25, and shall make good at its own cost any loss or damage that may occur to the Facilities or the relevant part thereof from any cause whatsoever during such period.	In the event project is delayed beyond the original contract completion period, SJVN shall pay preservation charges and repair / replacement charges of damaged items due to prolonged storage. Alternatively, SJVN may take over certain items like spare etc. on completion of 24 months from last major despatch of equipment. Please confirm.	Covered under Appendix-9. 2nd point is not acceptable.
51	Section-IV, GC/34. Insurance	34.1 Insurance	To the extent specified in the Appendix to the Contract Agreement titled Insurance Requirements, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix. Contractor shall have option either to have a single comprehensive insurance in one cover or separate insurances. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, who should not unreasonably withhold such approval.	The Insurance policy is to arranged from IRDAI approved Underwriters Therefore, approval for identity of the insurers and the form of the policies by the Employer is not required. Kindly, suitably be modify this clause. Further, It is submitted that Insurance Policies should be effective from 1st shipment. Please confirm.	PI. refer Amendment.
52	Section-IV, GC/36. Change in Laws and Regulations	36.1 Change in Laws and Regulations	If, after the date twenty-eight (28) days prior to the date of Bid submission, in the country where the Site is located, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed which shall be deemed to include any change in interpretation or application by the competent authorities, that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced costs shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, pursuant to GC Sub-Clause 11.2.	Please confirm, if aforesaid changes shall be applicable for contract period (Completion period) or during extension also. Please confirm.	If EOT is granted for any reason mentioned under Cl.40 of bid document, then it is applicable. However, if delay is on part of Contractor then it is not applicable on that period.
53	Section-IV, GC/37. Force Majeure	37.6 Force Majeure	If the performance of the Contract is substantially prevented, hindered or delayed for a single period of more than sixty (60) days or an aggregate period of more than one hundred and twenty (120) days on account of one or more events of Force Majeure during the currency of the Contract, the Parties will attempt to develop a mutually satisfactory solution, failing which either Party may terminate the Contract by giving a notice to the other, but without prejudice to either Party's right to terminate the Contract under GC Sub-Clause 38.5.	We request SJVN to kindly confirm following: If the performance of the Contract is substantially prevented, hindered, or delayed for a single period of more than 60 days or an aggregate period of more than 120 days on account of one or more events of Force Majeure during the currency of the Contract, then also contractor shall be suitably compensated.	Already covered under SCC Cl.12.
54	Section-IV, GC/39. Change in the Facilities	39.2.2 Changes Originating from Employer	(a) accept the Contractor's estimate with instructions to the Contractor to proceed with the preparation of the Change Proposal	We request SJVN to modify clause as below: accept the Contractor's estimate with instructions to the Contractor to proceed with the preparation of the Change Proposal.	Bid provision shall prevail.
55	Section-IV, GC/39. Change in the Facilities	39.2.7 Changes Originating from Employer	If the Employer and the Contractor cannot reach agreement on the price for the Change, an equitable adjustment to the Time for Completion, or any other matters identified in the Change Proposal, the Employer may nevertheless instruct the Contractor to proceed with the Change by issue of a "Pending Agreement Change Order." Upon receipt of a Pending Agreement Change Order, the Contractor shall immediately proceed with effecting the Changes covered by such Order. The Parties shall thereafter attempt to reach agreement on the outstanding issues under the Change Proposal.	We request SJVN to settle prices alongwith issuance of change Order.	Bid provision shall prevail.
56	Section-IV, GC/41. Suspension	41.1 Suspension	The Employer may request the Project Manager, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be suspended, the effective date of the suspension and the reasons therefor. The Contractor shall thereupon suspend performance of such obligation, except those obligations necessary for the care or preservation of the Facilities, until ordered in writing to resume such performance by the Project Manager.	We request SJVN to add following at last of this para: Contractor shall be paid preservation charges and other cost incurred during period of extended & suspension. Please Confirm.	As per Appendix-9

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57	Section-IV, GC/42. Termination	Termination	Termination for Employer's Convenience	In case of termination / cancellation of contract, all applicable taxes & duties on account of termination / cancellation of contract shall be to SJVN's account.	As per bid provisions & Govt. Guidelines applicable in this regard.
58	Section-V, SCC/1.0	GC 8.2- Time for Completion	The successful Bidder shall be required to prepare detailed Network(s) and Project implementation plans & programmes including resource loading (men material and machine made) in primavera software and finalize the same with the Employer as per requirement specified in Technical Specifications, which shall form a part of the Contract.	We request SJVN allow Project implementation plans & programmes including resource loading in MS Projects software.	Bid provision shall prevail.
59	Section-V, SCC/6.0	GC 21.3.7 Packing	After unpacking of Goods the packing material shall become the property of Employer	Packing material shall be the property of Contractor	Packing material shall be the property of Owner.
60	Section-V, SCC/11.0	GC18 Add a new sub clause no. 18.6 as under :	Add a new sub clause no. 18.6 as under : Web based e-diary system shall be maintained by the EIC/Project Manager to keep record of all event like major milestone, activity, letter/claims by contractor and its response etc. in respect of the contract. Supplement the Clause SCC 11 (GC 18): The report/records should be kept in electronic form and need to be shared with the Head Quarter on real time basis by the EIC.	We understand that this clause is only applicable to EIC of SJVN, Please confirm.	Yes
61	Section-V, SCC/12.0	Supplement the clause as under:	Notwithstanding provisions elsewhere provided in the contract for cost compensation resulting from extension of time for completion, in the event of stoppage of work in situations described in sub-paragraphs (b) to (f) of sub clause 37.1, occurs in the country, the contractor shall be entitled to 50% of such cost subject to adjustment of payment under GC clause 34 (Insurance).	We understand that this clause is not applicable for EM contractor.	Clause is applicable for EM contractor.
62	Section-V, SCC/13.0	Add a new clause as under :	If work is stalled for any reason other than natural calamity, the contractor shall inform within reasonable time to EIC/Project Manager who should resolve and / or inform (whether contractor has informed or not) its Management to resolve the issue, e.g. facilitate resumption of work by contractor or cancellation of contract and rebidding of works or any other mechanism found suitable for quick resumption of work etc., and should ensure that work is not stalled for more than 60 days.	Please confirm that E&M contractor shall only be responsible to adhere this clause, if work is stalled for the reasons solely attributable to E&M contractor.	Bid provision shall prevail.
63	Section-VII, Letter of Tender, Attachments and Bid Price Schedules	Letter of Tender	Having examined the Bid Documents, including Addenda Nos. (Insert Numbers), the receipt of which is hereby acknowledged, we the undersigned, offer to construct and install such Works and remedy the defects therein in conformity with the Conditions of Contract, Specifications, Drawings, price schedules, Appendix to Bid and addenda (if any) for the sum of(Prices to be left blank in Envelope-I (Insert amounts in words)(.....) (Amount in Figures) as specified in the Appendix to Bid or such other sums as may be determined in accordance with the terms and conditions of the Contract.	We understand that the value to be filled in the Letter of Tender shall be the price as mentioned in Grand total of Schedule No. 5 (Grand Summary). Please confirm. Kindly confirm , Price of Schedule No. 7A (RECOMMENDED SPARES for Operation & Maintenance & Schedule-7B: Recommended Annual Maintenance Tools shall not be part of price indicated in Letter of Tender.	As per Clause 21 of ITB duly filled Letter of Tender with prices shall be submitted with Price Bid only containing Grand Total of Schedule No. 5 Yes, we confirm Price of Schedule No. 7A (RECOMMENDED SPARES for Operation & Maintenance & Schedule-7B: Recommended Annual Maintenance Tools shall not be part of price indicated in Letter of Tender.
64	Section-VII, Letter of Tender, Attachments and Bid Price Schedules	Bid Price Schedules	SCHEDULE NO. 1 [Plant and Equipment (including Mandatory Spare parts) Quoted on Ex-works basis] SCHEDULE NO. 2 (Local Transportation, Insurance and other incidental services charges) SCHEDULE NO. 3 (Installation Service) SCHEDULE NO. 4A (Type Test and Model Test Charges) SCHEDULE NO. 4B (Training Charges for Various Equipment of Electro- Mechanical Works as per training clause specified in TS) SCHEDULE NO. 4C (Prices towards supply of Documents Charges) SCHEDULE NO. 4D (Prices towards supply of EDMS Software) Schedule No. 7A (RECOMMENDED SPARES for Operation & Maintenance) Schedule-7B: Recommended Annual Maintenance Tools	We understand that the value to be filled in the Price Schedule No. 1,2,3,4A,4B,4C,4D,7A& 7B shall be exclusive of Taxes and Duties. Please confirm. Requested kindly provide Separate Price Schedule for Taxes and Duties.	All the Taxes & Duties shall be included in price to be quoted except GST which shall be payable separately as per prevailing rates. No separate schedule for Taxes & Duties has been envisaged..
65	Section VIII – Contract Forms/Appendix-1	Terms and Procedures of Payment	Ten Percent (10%) of the total Ex-works price as identified in Price schedule as interest bearing advance (If opted for) within 30 days after submission of following:-....	We request SJVN to consider Ten Percent (10%) of the total Ex-works price as identified in Price schedule as interest free advance .	Bid conditions shall prevail.
66	Section VIII – Contract Forms/Appendix-1	Terms and Procedures of Payment	Delay of Payment	In case of delay in release of payment by SJVN, SJVN shall pay Interest Charges at MCLR plus 4% for amount of payment delayed.	Already covered under Cl. 12 of GC.
67	Section VIII - Contract Forms/Appendix-1	Terms and Procedures of Payment	Payment for supply	SJVN is requested to replace payment term as bellow: Payment for Supply (i.e. Plant & Equipment including Mandatory spare, Tools & tackles): Price Schedule-1 <input type="checkbox"/> Advance: - 10% Interest free <input type="checkbox"/> On Shipment/ Dispatch: 80% On Shipment + 80% of Price adjustment amount <input type="checkbox"/> On Testing, Commissioning & Operational Acceptance: 20% + corresponding amount of Price adjustment . Please confirm.	Bid conditions shall prevail.

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68	Section VIII - Contract Forms/Appendix-1	Payments for Installation Services (Erection, Commissioning & Testing)	Terms of Payment for Installation Services (i.e. Erection, Commissioning & Testing)- Price Schedule-3	SJVN is requested to kindly confirm that 100% price adjustment against erection, commissioning and testing shall be payable to Contractor at the time of erection, commissioning and testing payment.	Bid conditions shall prevail.
69	Section VIII - Contract Forms/Appendix-1	Terms and Procedures of Payment	6.0 MODE OF PAYMENT: The Employer shall make all payments other than payments made through LC promptly within forty-five (45) days of submission of an invoice/ claim by contractor through electronic mode.	We request SJVN to kindly make all payments other than payments made through LC promptly within Fifteen (15) days of submission of an invoice/ claim by contractor through electronic mode.	Bid provision shall prevail.
70	Section VIII - Contract Forms/Appendix-2	Price Adjustment	Price Adjustment For Supply i.e. Plant & Equipment including Mandatory spare, Tools & tackles (Price Schedule-1) Ceiling of ±30%	We request SJVN to kindly confirm Price Adjustment without ceiling. SJVN Ltd is requested to consider price adjustment (without ceiling.) against Other Services (i.e loading, inland transportation, insurance, unloading, storage, preservation etc) : i.e. Price Schedule-2 Model Test and Type Test Charges: i.e. Price Schedule – 4A Training Charges: i.e. Price Schedule – 4B Drawing and Documents: i.e. Price Schedule – 4C EDMS Software: i.e. Price Schedule – 4D	Bid provision shall prevail.
71	Section VIII - Contract Forms/Appendix 2	Price Adjustment	SOURCE OF INDICES AND BASE VALUE: - The source of applicable indices and their base values for the purpose of computing price adjustment under the contract shall be as under: Name of Material- Iron and steel Name of Material- Copper	It is submitted that Iron and steel and Copper indices are no longer available in All India average consumer price index number for industrial workers published by Labour Bureau, Govt. of India. We request SJVN replace Iron & Steel with MANUFACTURE OF BASIC METALS and Copper with Copper shapes - bars/rods/plates/strips respectively . SJVN requested review and amend the same .	Corresponding appendix has been revised.
72	Section VIII - Contract Forms/Appendix 2	Price Adjustment	SOURCE OF INDICES AND BASE VALUE: - The source of applicable indices and their base values for the purpose of computing price adjustment under the contract shall be as under: Name of Material- CRGO steel (ES) Name of Material- Transformer Oil (TB) Name of Material-PVC/XLPE compound (insulation) Name of Material- Basic Metals Name of Material-Aluminum	It is submitted that indices for CRGO steel (ES) and Transformer Oil (TB) are no longer available. Hence, kindly replace same with CRGO Electrical Steel Lamination (ES) and Transformer Oil (TO) respectively. Basic Metals is not available in IEEMA, if available, kindly provide or change the indices or source. Also replace Aluminum with LME ALUMINIUM : (AI)	Corresponding appendix has been revised.
73	Section VIII - Contract Forms/Appendix 2	Price Adjustment	Subscript '1' refers to indices as of: (a) Three months prior to the date of shipment/dispatch for labour, and (b) at the expiry of two third (2/3) period from the date of notification of award to the date of shipment/dispatch for material. For the purpose of this clause the date of shipment/dispatch shall mean the contract date of shipment/dispatch or actual date of shipment/dispatch, whichever is earlier.	Kindly specify date of adjustment in case of PV for Installation price component.	Corresponding appendix has been revised.
74	Section VIII - Contract Forms/Appendix 3	Insurance	Insurance to be taken out by the Contractor	"We request SJVN not to mention any deductible limit or amount in the tender and mention the following under deductible limit: Deductible limit under various insurances defined under Appendix-3 shall be as per IRDAI guidelines or as per actual deductibles finalised through tendering of insurance policies by underwriter for the project. Further, whatever be the deductible, the Insurance policy is to be arranged from IRDAI approved Underwriters.	Pl. refer the Amendment.
75	Section VIII - Contract Forms/Appendix 3	Insurance	e. Insurances to be taken by the Employer	The insurance cover should include the provision for war, SRCC, terrorism etc. We understand that these covers shall be taken care by SJVN. Please confirm.	No, all the insurances are in the scope of Contractor. Pl. refer the Amendment.
76	Section VIII Contract Form /Appendix 6 Section-I Press Notice, NIT, IFB	Construction Power	It is expressly understood that construction power requirements shall be arranged by contractor at his own cost.	We request M/s SJVNL to provide 3 phase 415V power supply for construction power, free of cost at following locations: Power house, switchyard and other work areas. We request M/s SJVNL to kindly confirm.	Bid provision shall prevail.
77	Section VIII Contract Form Appendix-6 Section-I Press Notice, NIT, IFB/10	Land for Infrastructure & Storage Facilities:	The land upon which the Facilities are to be installed only shall be provided to the Contractor for execution EM Package. It is expressly understood that any additional land required for contractor's infrastructure works (labour camp, site office etc.), Storage and construction facilities (workshop etc.) shall be arranged by contractor at his own cost.	We request M/s SJVNL to provide levelled & compacted land (approx 10000sqm) for Storage of project materials free of cost basis. In case any additional land is required same shall also be provided free of cost by SJVN during execution of the the project or progress of work. We request M/s SJVNL to kindly confirm.	Bid provision shall prevail.

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78	Section VIII - Contract Forms/Appendix 8	Functional Guarantees	Guarantees, Liquidated Damages for Non-Performance	The proposed rate of Liquidated Damages is very much on the higher side . Hence, it is requested to please review and reduce the same .	Bid provision shall prevail.
79	Section VIII - Contract Forms/Appendix 9	Determination of Idling Time cost Claims	Determination of Idling Time cost Claims:	The cost claim shall be limited for delay period of 1 to 2 years maximum and not undefined period. In case project gets delayed beyond 2 years from schedule completion, both supply and services contract shall be reviewed and amended.	Bid provision shall prevail.
80	Section VIII - Contract Forms		Bid Security Form-Bank guarantee in case of single entity:Annexure-I Bid Security Form-Bank guarantee in case of bid from Joint Venture: Annexure-I-A Proforma of Joint Deed of Undertaking by The Manufacturer and The Bidder/Contractor: Annexure-II Parent/Holding company agreement in case of sole bidder : Annexure-III Parent/Holding company agreement in case of Joint Venture: Annexure-III-A Form of Integrity Pact:Annexure-IV Form of Declaration of Eligibility : Annexure-IV(A) Form of Declaration Regarding Conflict of Interest : Annexure-IV(B) Form of Joint Venture Agreement : Annexure-V Form of Indemnity Bond for Equipment handed over in one lot by employer for performance of its contract : Annexure-XII Form of Indemnity Bond for Equipment handed over in installments by employer for performance of its contract.: Annexure-XIII Format for Power of Attorney: Annexure-XVII	SJVN is requested to confirm the value of Non-Judicial Stamp paper on which following Annexures shall be executed . Bid Security Form-Bank guarantee in case of single entity:Annexure-I Bid Security Form-Bank guarantee in case of bid from Joint Venture: Annexure-I-A Proforma of Joint Deed of Undertaking by The Manufacturer and The Bidder/Contractor: Annexure-II Parent/Holding company agreement in case of sole bidder : Annexure-III Parent/Holding company agreement in case of Joint Venture: Annexure-III-A Form of Integrity Pact:Annexure-IV Form of Declaration of Eligibility : Annexure-IV(A) Form of Declaration Regarding Conflict of Interest : Annexure-IV(B) Form of Joint Venture Agreement : Annexure-V Form of Indemnity Bond for Equipment handed over in one lot by employer for performance of its contract . : Annexure-XII Form of Indemnity Bond for Equipment handed over in installments by employer for performance of its contract.: Annexure-XIII Format for Power of Attorney: Annexure-XVII	Rs. 100 each
81.	Section –1 / Notice Inviting Tender		Bid Security	Bid Security as per NIT is of 16.72 Cr. which is on higher side, kindly consider to include provision of Bid Security Declaration in line with previous tenders of SJVN Limited.	Bid provision shall prevail.
82.	Section – 2, Instructions to Bidders		30.4 Evaluation of Bids 5.5.4 Bid Capacity	We understand that the Approved cost estimate of 836.18 Cr. is excluding Taxes, Duties, Levies or any other miscellaneous charges / cess, please confirm.	Information regarding Cost estimate shall be provided before bid submission date.
83.	Section – 2, Instructions to Bidders/Clause 30.4		Evaluation of Bids (e-RA)	As per said clause e-RA will be conducted if price is more than 2.5% of the Approved cost estimate of the project. This is in contradiction to the report issued by Ministry of Power in Jan 23, which addresses contractual issues and different modes of contracting in Hydropower projects. As per report e-RA will be not be conducted if the discovered price is up to 105% of the estimated price. Please amend clause to reflect the same.	Bid provision shall prevail.
84.	Section – 2, Instructions to Bidders/ Clause 35.3 and Clause 5.4		Performance bank Guarantee (By Parent Company)	Kindly clarify the parent PBG requirement. As per Clause 35.3 of ITB parent PBG is 3% whereas as per Clause 5.4 ITB, parent PBG is 5%.	PBG is 5% and suitable amendment shall be issued in this regard.
85.	Section 4 General Condition/ Clause 11.4		Payment	Kindly delete the word “any” from “under any Contractthe Employer”	Pl. refer amendment.
86.	Section 4 General Condition/ Clause 11.4		Deductions from contract prices- Any sum of money due and payable to the Contractor (including Performance Guarantee returnable to him) under this Contract may be appropriated by the Employer and set off against any claim of the Employer out of or under any Contract made by the Contractor with the Employer.	We understand that set off (including those from performance Security) under this Contract, can be undertaken by the Employer only for any undisputed amount payable by the Contractor under any other contract with the Employer, which remains unpaid beyond a reasonable time. We would request you to confirm this.	Pl. refer amendment.
87.	Section 4 General Condition / Clause 13.2.3		Advance Payment Security	Please modify to reflect that the reduction in advance bank guarantee can be done on quarterly basis.	Pl. refer amendment.
88.	Section 4 General Condition/ Clause 23.4		Test and Inspection	Last sentence of the 2nd paragraph is not complete. Kindly clarify	Noted and suitable amendment shall be issued in this regard.
89.	Section 4 General Condition/ Clause 34		Insurance and Appendix 3 Insurance Requirements	It has been observed in the recent past that the Glacial Lake Outburst Floods (GLOFs), earthquakes, landslides and other incidences have been frequently occurring in the Himalayan region adversely affecting the Hydro Projects in the region. These incidences are generally covered under Acts of God (AOGs) and GLOFs provision under Installation/Erection All Risks Insurance. Due to frequent and increased incidences related to AOG the Insurance companies are unwilling to provide full contract coverage of AOG and GLOFs under Installation All Risks Insurance, limiting the risk coverage related to AOG and GLOFs to part percentage of Contract Price (not covering full or 125% of Contract Value) Since the Contractors are able to procure Insurance policy covering only limited portion of the Contract Price against risks associated with AOG and GLOF for the projects in the Himalayan region, it exposes the Contractors to the balance risk which is substantial and cannot be absorbed by Contractors (Refer GC Clause 32 Care of Facilities) In view of above, the only suitable way out would be for SJVN to consider Installation /Erection All Risks Insurance including Acts of God (AOGs), Glacial Lake Outburst Floods (GLOFs) etc under the Employer's scope, SJVN being the developer of this project / asset.	Bid provision shall prevail.

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90.	Section 8 Contract Forms/ Appendix 1		Terms and Procedures of Payment	<p>1.2.1 (ii), 1.2.2 (ii), 1.2.3 (ii), 1.2.4 (ii) – Kindly add at the end “or Contractor statement stating that above requirements are complied and Project manager has not issued the Certificate within 7 days of submission”</p> <p>1. 3.(iv) - Kindly add at the end “or Contractor statement stating that MDCC is not issued by Project manager within 7 days of request by Contractor for issuance of MDCC”</p> <p>1.4 (iii) - Kindly add at the end “or Contractor statement stating that Employer has not provided Acknowledgement of Delivery Challan within 7 days of request by Contractor for issuance of such acknowledgement”</p> <p>1.4.(iv) – Kindly delete</p> <p>1.5 A) & 1.5 B) – Kindly delete “1/6th of” from the first sentence</p> <p>1.5 A) (iii) Kindly add at the end “or deemed Completion Certificate issued by Contractor”</p> <p>1.5 B) (iii) Kindly add at the end “or deemed Commissioning Certificate issued by Contractor”</p> <p>1.5 C) (iii) Kindly add at the end “or deemed Operational Certificate issued by Contractor</p> <p>1.5 D) (iii) Kindly add at the end “or deemed Certificate issued by Contractor</p>	Bid provision shall prevail.
91.	Section 4 General Condition / Clause 13.2		Advance Payment Security	<p>2.1.ii) Kindly add at the end “or Contractor statement stating that Employer has not provided the Certificate of receipt of safe delivery of items at Sunni Dam within 7 days of request by Contractor for issuance of such Certificate”</p> <p>3.2 Please modify: * Pro-rata payment for each unit to the extent of 1/6th of specified payment amount in percentage</p> <p>3.2.iii) Kindly add at the end “or deemed Completion Certificate issued by Contractor”</p> <p>3.3. iii) Kindly add at the end “or deemed Operational Certificate issued by Contractor</p> <p>4.1 A) Kindly delete “by the Employer in the first sentence</p> <p>4.2.(ii) Kindly add at the end “or Contractor statement stating that Employer has not provided the Certificate within 7 days of request by Contractor for issuance of such Certificate”</p> <p>4.3.(ii) - Kindly add at the end “or deemed Operational Certificate issued by Contractor.</p>	Bid provision shall prevail.
92.	Section 4 General Condition / Clause 13.1			<p>4.4.(ii) Kindly add at the end “or Contractor statement stating that Project Manager has not provided the Certificate within 7 days of request by Contractor for issuance of such Certificate.</p> <p>6.0 – Kindly replace this clause with below: All payments except advance shall be made through irrevocable automatic revolving LC covering total contract price plus applicable taxes and duties less advance received with revolving amount of 40% of Contract price. LC shall be payable at sight, based on UCP latest version issued by a first class bank acceptable to the Contractor. The value of LC shall be automatic revolving and automatically reinstated to the extent of the value of LC and on cumulative basis up to the total contract price plus applicable taxes and duties less advance. LC shall be established by the Employer within 60 days from Effective Date of Contract in form and substance mutually agreed between Employer and Contractor having validity of last payment plus 60 days. All costs for opening of Letter of credit shall be borne by the Employer. It will the obligation of the Employer to extend /amend Letter of Credit within 14 days from the request of the Contractor.</p>	BG is 5% and suitable amendment shall be issued in this regard.
				<p>We request that Advance payment up to 10% of contract price should be allowed without any interest and against submission of equivalent Advance Bank Guarantee (ABG), to be submitted within 28 days of the date of signing of the Contract. The ABG will come into effect from the date of receipt of the advance onto the Contractor's bank account and will be automatically reduced in proportion to the value of the items/ equipment dispatched or services rendered against presentation of a photocopy of Contractor's pro rata invoice.</p>	
				<p>13.1 Please clarify – PBG is mentioned for 5% whereas in Appendix I – Terms and Procedures of Payment – 1.2.1.(iii) it is mentioned 10% In sub-clause 13.3.1, we request to allow submission of performance security within 28 days from signing of Contract Agreement instead of Letter of Acceptance. Please delete the provisions for submission of additional PBG from the Parent Holding Company We also want to discuss and finalize the formats of all BGs to bring them in line with prevailing banking practices</p>	

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93.	Section 8, Contract Forms		Contract Forms, Appendix 2, Price Adjustment	Price adjustment formula is proposed to be without ceiling. Transportation Services are proposed to be included in the PV Formula The price adjustment formula for Transformers is to be revised in line with the IEEMA formula Effective 01st Sept 2021 for Transformers. PV Formula to be updated in line with above	Bid provision shall prevail.
94.	Section 8, Contract Forms - PARENT/HOLDING COMPANY AGREEMENT 3(a)		PARENT/HOLDING COMPANY AGREEMENT (a) The Parent/holding Company hereby agrees to the Employer to ensure due and faithful performance of the obligations and liabilities by the Bidder under the Contract and remain responsible to irrevocably and unconditionally provide full technical and financial support to the Bidder for completion of the works covered under the Contract. The provisions of Contract shall mutatis-mutandis apply to the Parent/holding Company.	The rationale of having a Parent Company Agreement is to ensure that the Parent steps in and performs under the Contracts and hence must have the same rights as if it has the same rights as it was a party to the Contract. Therefore we request the following changes to the Parent Company Agreement: 1. Is the intention of the Employer to ensure that the Parent/ Holding Company steps in and performs the obligations and liabilities of the Bidder, only cases where the Bidder fails to perform the said obligations within the time frame provided in the Contract? 2. Is the intention of the Employer to first address the breach or failure under the Contract with the Bidder and then resort to its rights against the Parent/Holding Company?	Bid provision shall prevail.
95.	Section 8, Contract Forms - PARENT/HOLDING COMPANY AGREEMENT 3(b)		(b) In the event of breach and/ or failure on the part of the Bidder to perform or fulfil any of its obligations and liabilities under the Contract, the Employer may at its discretion call upon the Parent/holding Company and the Parent/holding Company shall be obliged to execute and perform or cause to be executed and performed and to satisfy the obligations and liabilities of the Bidder under the Contract in accordance with the terms and conditions thereof without prejudice to any other right or remedy, besides encashing the Bank guarantee(s).	3. If the answer to (1) and (2) is yes, then request you to make the below mentioned additions/deletions to clauses 3 (a) (b) (a) Subject to the Contractor not rectifying the breach under the Contract, The Parent/holding Company hereby agrees to the Employer to ensure due and faithful performance of the obligations and liabilities by the Bidder under the Contract and remain responsible to irrevocably and unconditionally provide full technical and financial support to the Bidder for completion of the works covered under the Contract. The provisions of Contract shall mutatis-mutandis apply to the Parent/holding Company. (b) In the event of breach and/ or failure on the part of the Bidder to perform or fulfil any of its obligations and liabilities under the Contract, the Employer may subject to the Contractor's failure in rectifying the breach under the Contract, may at its discretion call upon the Parent/holding Company and the Parent/holding Company shall be obliged to execute and perform or cause to be executed and performed and to satisfy the obligations and liabilities of the Bidder under the Contract in accordance with the terms and conditions thereof without prejudice to any other right or remedy, besides encashing the Bank guarantee(s).	Bid provision shall prevail.
96.	Section 8, Contract Forms - PARENT/HOLDING COMPANY AGREEMENT 3(c)		(c) The Parent/holding Company shall indemnify and keep indemnified and harmless the Employer at all times against any loss, damage, cost charge and expense whatsoever that may be suffered or incurred by or caused to the Employer on account of such breach	The Bidder would like to understand and confirm the following: 1. Is the intention to ensure that the Parent/Holding company steps in and indemnifies the Employer for all losses caused by the Bidder under the Contract and in so performing will have the same rights and obligations of indemnity as provided under the Contract? If yes, then request you to make the below mentioned additions/deletions to clauses 3 (c) <u>(c) Upon occurrence of 3(b), the Parent/ Holding Company shall step in and the Parent/holding Company shall indemnify and keep indemnified and harmless the Employer at all times against any loss, damage, cost charge and expense, whatsoever that may be suffered or incurred by or caused to the Employer payable by the Bidder on account of such breach by the Bidder and in so indemnifying the Parent Company shall have be bound by the same Limitation of Liability provided under the Contract</u>	Bid provision shall prevail.
				The Bidder would like to understand and confirm the following: 1. Is our understanding correct that the rights, obligations and limitations under the Contract shall apply to the Parent Company as well? If yes, please add an additional clause stating: <u>All rights, obligations, and defenses, including but not limited to any Limitation of Liability, Indemnities, and Exclusions available under the Contract between the Parties, shall apply mutatis mutandis to the Parent Company under this Parent Company Agreement as if the Parent Company were a party to the Contract.</u>	Pl. refer amendment.
97.	Section -1 , Notice Inviting Tender		Deadline for submission of bids	Considering the magnitude of work, different configuration of machines and complexity it is requested to kindly extend present bid submission to minimum 8 Weeks.	Requested noted. However, information in this regard shall be intimated separately through amendment, if required.
98	0		CIVIL FRONTS Civil fronts for EM equipment installation shall be provided free from hindrances/ restrictions as far as practicable including their access	We request SJVNL to add following line at the end of this clause which is as under:- Any delay in providing the civil fronts as per schedule will imply in additional time & cost corresponding to such delay will provided by SJVNL to Contractor.	Bid provisions shall prevail.
99	Section-II, ITB/14		CIVIL FRONTS Civil fronts for EM equipment installation shall be provided free from hindrances/ restrictions as far as practicable including their access	We request SJVNL to add following line at the end of this clause which is as under:- Any delay in providing the civil fronts as per schedule will imply in additional time & cost corresponding to such delay will provided by SJVNL to Contractor.	Bid provisions shall prevail.

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100	Section-I, NIT, IFB/4.3.2		Working Capital Capacity to have a cash flow amount /working capital of at least INR 58.34 Cr. or equivalent as evident from the immediately preceding financial year as per the audited balance sheet/ equivalent financial statements. Working capital/ cash flow amount shall be calculated by subtracting current liabilities (CL) from Current Assets (CA) i.e (CA-CL).	We request SJVNL to add following line at the end of this clause which is as under:- <u>For this purpose current assets and current liabilities will be considered as classified in the audited balance sheet /equivalent financial statements including profit and loss statement of the immediately preceding financial year. If audited financial statement for the immediate preceding financial year is not available, then the bidder shall submit these statements certified by a Chartered Accountant. In case there is a shortfall in the Working Capital as per this, the unutilized Cash Credit Limits sanctioned to the applicant by the Banks /Financial Institutions of international repute shall be considered to meet the shortfall.</u>	Pl. refer the amendment.
	Section-II, ITB/5.5.3				
101	Section-I, NIT, IFB/4.4		Bid Capacity The available Bid Capacity of the bidder of the date after NIT, calculated as under should not be less than NR 836.18 Cr.	From the bid capacity mentioned INR 836.18Cr., we understand this is the project budget without taxes out taxes and duties considerations. Please confirm.	Information regarding Cost estimate shall be provided before bid submission date.
	Section-II, ITB/5.5.4				
102	Section-I, NIT, IFB/15		Civil Works However, the Contractor shall provide design data for foundations and install the inserts/embedment; support steels and/or components for foundation /supports purpose, shall perform minor civil work such as any chipping / levelling works, denting / painting etc. & Civil Works of Pole lighting of Illumination Section.	We understand that in E&M Contractor scope is limited only to providing the required data for the foundation design by the Civil contractor. Please confirm.	Bid provision shall prevail.
103	Section-II, ITB/6.3		Parent Company Guarantee	We understand the aggregate liability of the Parent/ Holding company and the Contractor shall be read in conjunction with the Limitation of liability clause no 30 of GCC. We would like to mentioned that similar clause is already there in our existing project (Tender Ref No.: SJVN/CHQ/ECD/DSHEP/EMP/2021) or Electro Mechanical Works of (2x33) MW Dhaulasidh HE P, situated on Beas River near Sanotu village in Hamirpur district of Himachal Pradesh- India (Pre-bid reply no 15 dated 07.07.21 . Please Confirm.	Pl. refer the amendment.
104	Section-II, ITB/30.4		Evaluation And Comparison Of Bids After arriving at L1 evaluated bid price through e-tender, the qualified bidders shall participate in E-Reverse auction process as follows:.....	The NIT calls National/ Domestic Competitive Bidding in Single Stage -Two-Part bidding Basis with e- reverse Auction. Conduction of e-RA after submission of best prices would put an undue burden on the bidders to lower the prices further and sometimes well below the estimate which may result in pressures during execution, which may not be in the interest of the project. Further, please note that Electro-mechanical tenders consist of a highly specialized/engineered technical scope of supply and services where there are both prices as well as other technical criteria are considered for offering the best price for the project to become an L1 bidder. Therefore, e-RA is generally avoided in the procurement of high-end products in which quality, safety aspects, and stakes of commercial losses are major considerations. Therefore, we request you kindly delete the e-Reverse Auction for this project. We would also like to mention that e-Reverse Auction is not applicable in many Central PSUs. Therefore, we request you to kindly remove this clause. Please accept the removal of e-RA from this tender.	Bid provision shall prevail.
105	Section - II-ITB/8.0 SITE VISIT		b) Requirement and availability of land and other facilities, for their enabling works, colonies, stores and workshops etc. Apart from the land available with the Employer, if required, the Contractor shall have to arrange additional land for his own purpose at his own cost.	We request SJVNL to provide free of cost basis suitable land for Construction stores, and sheds required for handling the E&M material of our scope for smooth execution of work and it indirectly reduces the project cost. In case any additional land is required same shall also be provided on a free- of-cost basis by SJVNL during the execution of the project. Please accept.	Bid provision shall prevail.
106	SECTION - III,BDS/ITB 1.2, 30.1.2, 30.1.3(b)		Period of completion : Time to complete the facilities is as follows from the effective dates:- First (1st) Unit commissioning (73MW) : 40.5 months Second (2nd) Unit commissioning(73MW) : 41 months Third (3rd) Unit commissioning (73MW) : 41.5 months Fourth (4th) Unit commissioning (73MW) : 42 months Fifth (5th) Unit commissioning (73MW) : 42.5months Sixth (6th) Unit commissioning (17MW) : 43 months	The timeline for completion of the works in 43 months is too short and challenging, considering the size of the Project, the size of the equipment, and 6 nos. of units. We therefore request SJVNL to increase the timelines for completion of work to 52 months (Fifty-Two). Please Accept	Bid provision shall prevail.

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107	Section - IV- GCC/Definitions, 1.22, Effective Date		<p>Effective Date for Determining Time for Completion of the contract shall be determined from the date of Notification of Award provided all of the following conditions are fulfilled within a period of two (2) months from the date of issuance of Letter of Acceptance:</p> <p>a) Contract Agreement has been signed between the Employer and the Contractor (after submission of Contract Performance Guarantee by contractor).</p> <p>b) The Contractor has submitted the Contract Performance Guarantee and additional Bank Guarantees as per clause GC clause 13.3.1 read with SCC 4.0 acceptable to SJVN within 28 days from the issuance of LOA.</p> <p>c) The Contractor has submitted the bank Guarantee equivalent to 110% of advance payment acceptable to SJVN within 30 days from the issuance of LOA, if applicable.</p> <p>d) The advance payment has been released to the Contractor,if applicable.</p> <p>e) Establishment of L/C (revolving type) for 1/6th of the total Ex-Works price (under price schedule-1) acceptable to Contractor within sixty (60) days from the date of issuance of LOA as well as the receipt of Bank & L/C details from the Contractor within fifteen (15) days from the date of issuance of LOA.</p> <p>Any delay by the Contractor in completion of above activities will be to his account and the contract will be deemed to be effective from the date of issuance of LOA. If the above conditions are not fulfilled within two (2) months from the date of issuance of Letter of Acceptance because of reasons attributable to the Employer, the effective date shall be shifted by those many days by which the delay has been caused by the Employer. Effective date shall constitute the beginning of Contractor's contractual obligation and will be considered for all purposes and intents</p>	<p>We request SJVNL to modify this clause as under:- Effective Date for Determining Time for Completion of the contract shall be determined from the date of Notification of Award provided all of the following conditions are fulfilled within a period of two (2) months from the date of issuance of Letter of Acceptance:</p> <p>a) Contract Agreement has been signed between the Employer and the Contractor (after submission of Contract Performance Guarantee by contractor).</p> <p>b) The Contractor has submitted the Contract Performance Guarantee and additional Bank Guarantees as per clause GC clause 13.3.1 read with SCC 4.0 acceptable to SJVN within 28 days from the issuance of LOA.</p> <p>c) The Contractor has submitted the bank Guarantee equivalent to 110% of advance payment acceptable to SJVN within 30 days from the issuance of LOA, if applicable.</p> <p>d) The advance payment has been released to the Contractor,if applicable.</p> <p>e) Establishment of L/C (revolving type) irrevocable, transferable, confirmed and at sight Letter of Credit issued by Scheduled Bank/ first-class bank for 1/6th of the total Ex-Works price (under price schedule-1,2,3 & 4) acceptable to Contractor within sixty (60) days from the date of issuance of LOA as well as the receipt of Bank & L/C details from the Contractor within fifteen (15) days from the date of issuance of LOA. Any delay by the Contractor in completion of above activities will be to his account and the contract will be deemed to be effective from the date of issuance of LOA. If the above conditions are not fulfilled within two (2) months from the date of issuance of Letter of Acceptance because of reasons attributable to the Employer, the effective date shall be shifted by those many days by which the delay has been caused by the Employer. Effective date shall constitute the beginning of Contractor's contractual obligation and will be considered for all purposes and intents</p>	Bid provision shall prevail.
108	Section - IV- GCC/10. Employer's Responsibilities		The Employer shall be responsible for acquiring and providing legal and physical possession of the Site and access thereto, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way, as specified in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer. The Employer shall give full possession of and accord all rights of access thereto on or before the date(s) specified in that Appendix	We understand that Upgradation and maintenance of all roads for access to and within Power House shall be SJVNL responsibility. <u>Please confirm.</u>	Bid provision shall prevail.
109	Section - IV- GCC/11 Contract Price		11.4 Any sum of money due and payable to the Contractor (including Performance Guarantee returnable to him) under this Contract may be appropriated by the Employer and set off against any claim of the Employer out of or under any Contract made by the Contractor with the Employer 11.5 It is an agreed terms of the Contract that the sum of money so withheld if retained under this clause by the Employer shall be kept, withheld or retained as such by the Employer till the claims arising out of in the same Contract are either mutually settled or determined by the arbitrator, and the Contractor shall have no claim for interest or damage whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the Contractor	We request SJVNL to remove sub-clause 11.4 & 11.5. "Money to be adjusted under the same contract and not from any other contract." <u>We would also like to mention that this clause is not applicable in many Central PSUs. Therefore, we request you to kindly remove this clause.</u> <u>Please Confirm.</u>	Pl. refer the amendment.
110	Section - IV- GCC/22. Installation		22.2.11 Supply of Water The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.	We request SJVNL to provide construction water as well as potable water for labor and other personnel at the worksite /colony. <u>Please Confirm.</u>	Bid provision shall prevail.
111	Section - IV- GCC		22.7.1 Site Clearance in Course of Performance: In the course of carrying out the Contract, the Contractor shall keep the Site reasonably free from all unnecessary obstruction, store or remove any surplus materials, clear away any wreckage, rubbish or temporary works from the Site, and remove any Contractor's Equipment no longer required for execution of the Contract. 22.7.2 Clearance of Site after Completion: After Completion of all parts of the Facilities, the Contractor shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site and Facilities in a clean and safe condition.	We request SJVNL to confirm that the ownership of surplus material which is with customer, which upon completion of works will be transferred to Contractor free of cost. Contractor Shall be free to remove surplus material including packing material & take away on completion of project. <u>Please Confirm.</u>	SJVN shall be the owner of packing material/containers (wooden/iron etc).
112	Section - IV- GCC/22. Installation		22.8 Watching and Lighting The Contractor shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper execution and the protection of the Facilities, or for the safety of the owners and occupiers of adjacent property and for the safety of the public.	We understand that watch and ward shall be arranged by us in our store. Security in Power house project area along with handling of local law and order shall be provided by owner. <u>General lighting facility in Power house and other work are during erection, testing and commissioning shall be made available by Owner. Please confirm</u>	Watching and Lighting shall be required outside power house and E&M stores.
113	Section - IV- GCC/25.1, Commissioning		25.2 Guarantee Test 25.2.2 If for reasons not attributable to the Contractor, the Guarantee Test of the Facilities or the relevant part thereof could not be successfully completed within 9 (nine) months from the date of Completion and GC Sub-Clauses 28.2 and 28.3 shall not apply	We request SJVNL to If for reasons not attributable to the Contractor, the Guarantee Test of the Facilities or the relevant part thereof could not be successfully completed within 9 (nine) three (3) months from the date of Completion and GC Sub-Clauses 28.2 and 28.3 shall not apply	Bid provision shall prevail.

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114	Section - IV- GCC & Appendix – 3/34. Insurance		<p>If the Contractor fails to take out and/or maintain in effect the insurances referred to in GC Sub-Clause 34.1, the Employer may take out and maintain in effect any such insurances and may from time to time deduct from any amount due the Contractor under the Contract any premium that the Employer shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Contractor. If the Employer fails to take out and/or maintain in effect the insurances referred to in GC 34.5, the Contractor may take out and maintain in effect any such insurances and may from time to time deduct from any amount due the Employer under the Contract any premium that the Contractor shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Employer. If the Contractor fails to or is unable to take out and maintain in effect any such insurances, the Contractor shall nevertheless have no liability or responsibility towards the Employer, and the Contractor shall have full recourse against the Employer for any and all liabilities of the Employer herein.</p> <p>The Employer shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to GC Sub-Clause 34.1, except for the Third Party Liability and the Contractor's Subcontractors shall be named as co-insureds under all insurance policies taken out by the Contractor pursuant to GC Sub-Clause 34.1, except for the Cargo and Employer's Liability Insurances. All insurer's rights of subrogation against such coinsureds for losses or claims arising out of the performance of the Contract shall be waived under such policies</p>	In the event project is delayed beyond the original contract completion period, SJVNL shall pay insurance premium plus overhead charges including taxes & duties for delayed period. Please Confirm.	Appendix-9 along-with Cl. 40 & 41 of GC may be referred.
115	Section - IV- GCC & Appendix – 3/ 34.1(b)/ page 47 also Appendix-3/page 103(c)		c) Third Party Liability Insurance Covering bodily injury or death suffered by third parties (including the Employer's personnel) and loss of or damage to property (including the Employer's property and any parts of the Facilities which have been accepted by the employer) occurring connection with the supply and installation of the Facilities.	<p>We request SJVNL to kindly remove "(including the Employer's personnel)". Insurance cover for third party including Employer's and/or Contractor's employees is not available as per insurance regulations. By virtue of definition of "third party" employees of Employer and Contractor are excluded. Therefore, appropriate insurance coverage for its employees is the responsibility of Employer. Hence kindly provide clarity in this regard.</p> <p>Furthermore, all insurance covers shall be established in line with the governing regulations of IRDA.</p>	Noted and suitable amendment shall be issued in this regard.
116	Section - IV- GCC & Appendix – 3/ 34.1(b)/ page 47 also Appendix-3/page 103(b)		(b) Installation/ Erection All Risks Insurance. Covering physical loss or damage to the Facilities at the Site, occurring till Commissioning of the Facilities, with extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the Defect Liability Period while the Contract is on the Site for the purpose of performing its obligations during the Defect Liability Period	We understand Act of God (AOG) is excluded from Contractor scope and will be in SJVNL scope. Please Confirm.	Bid provision shall prevail.
117	Section - IV- GCC/39. Change in the Facilities		Changes Originating from Employer 39.2.5 If before or during the preparation of the Change Proposal it becomes apparent that the aggregate effect of compliance therewith and with all other Change Orders that have already become binding upon the Contractor under this GC Clause 39 would be to increase or decrease the Contract Price as originally set forth in Article 2 (Contract Price) of the Contract Agreement by more than fifteen percent (15%), the Contractor may give a written notice of objection thereto prior to furnishing the Change Proposal as aforesaid. If the Employer accepts the Contractor's objection, the Employer shall withdraw the proposed Change and shall notify the Contractor in writing thereof	We request SJVNL to remove the limit of fifteen percent (15%) of Contract Price under this clause. Please accept.	Bid provision shall prevail.
118	Section - IV- GCC & Section - V - SCC/13.31 Performance Bank Guarante & 4, SCC		Performance Security 13.3.1 The Contractor shall, within twenty-eight (28) days of the issuance of Letter of Acceptance, provide a security for the due performance of the Contract for an amount equivalent to 5% of the Contract Price in currency of the bid with validity upto 60 days beyond the Defects Liability Period. (ii) A copy of an irrevocable and unconditional Bank Guarantee for the equivalent to 110% value of advance payment valid till 90 days beyond the date of completion of facilities.	There is a discrepancy in the GCC clause 13.1 & SCC clause 4, We understand that the successful bidder shall submit, within twenty-eight (28) days of the issuance of Letter of Acceptance, provide a security for the due performance of the Contract for an amount equivalent to 5% of the Contract Price in currency of the bid with validity upto 60 days beyond the Defects Liability Period . Please confirm.	Suitable amendment shall be issued in this regard.
119	Section - II- ITB 35 & Section - V - SCC & Additional Performance security		<p>In case Bidding Company (subsidiary company) gets qualified and awarded the work package, the Parent company/Holding Company, within 28 days from the date of issue of Letter of Acceptance, will be required to furnish an additional performance bank guarantee, as per format prescribed in Contract forms, of value equivalent to (3%) three percent of the Contract Price or portion of work (where subsidiary Company is Joint Venture Partner) as the case may be, in addition to normal Performance Bank Guarantee to be submitted by the Bidder to the Employer besides entering into a separate agreement in the requisite Format provided in the bid document.</p> <p>In case Subsidiary Company gets qualified and awarded the work package, the Parent/ Holding Company will furnish an additional performance bank guarantee of value equivalent to (5%) five percent of the Contract Price or portion of work as the case may be, in addition to normal Performance Bank Guarantee to be submitted by the Applicant Company to the Employer besides entering into a separate Agreement as per Contract forms.</p>	There is a discrepancy in the ITB clause 35 & SCC clause 4, We understand that in case Bidding Company (subsidiary company) gets qualified and awarded the work package, the Parent company/Holding Company, within 28 days from the date of issue of Letter of Acceptance, will be required to furnish an additional performance bank guarantee, as per format prescribed in Contract forms, of value equivalent to (3%) three percent of the Contract Price or portion of work (where subsidiary Company is Joint Venture Partner) as the case may be, in addition to normal Performance Bank Guarantee to be submitted by the Bidder to the Employer besides entering into a separate agreement in the requisite Format provided in the Bid Document. Please confirm.	PBG is 5% and suitable amendment shall be issued in this regard.
120	Section - V - SCC/14.1 Pre-requisite activities for Contract Closure		<p>14.1.4 Commissioning/Taking over After works are completed/test charged at rated parameters, Taking Over Certificate (TOC) shall be issued as provided in the contract. The issuance of TOC is an important milestone in contract closing as it signifies completion of works and commencement of defects liability/warranty period.</p> <p>14.1.5 PG (Performance Guarantee) Test</p> <p>14.1.6 Time Extension & Settlement of LD <u>14.1.7 Extra Claims and Settlement of disputes</u></p>	We request SJVNL to remove the 14.1.4, 14.1.5, 14.1.6 & 14.1.7 mentioned in Pre- requisite activities for Contract Closure clause. Please confirm.	Bid provision shall prevail.

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121	Section VIII - Contract Forms/Payment terms		Appendix-1 Terms and Procedures of Payment	We request SJVNL to kindly consider of request which is as under:- All payment shall be released as mentioned under Price Schedule 1,2,3 & 4 (except advance payment if applicable) shall be made through irrevocable, transferable, confirmed and at sight Letter of Credit issued by Scheduled Bank/ first-class bank . Kindly consider our request.	Bid provision shall prevail.
122	Section VIII - Contract Forms/Payment terms		D) ACCEPTANCE OF AS-BUILT DRAWINGS & OTHER DOCUMENTS Two per cent (2%) of total Ex-Works amount (under Schedule-1) and corresponding amount of Price adjustment (if any), after handing over of documents as per requirement of bid document and on submission of following and after recovery of equivalent percentage amount of advance along with interest (if applicable):	We request SJVNL to release the final Two percent (2%) payment of total ex-works amount (under Schedule-1) and corresponding amount of Price adjustment (if any) on Operational acceptance against submission on Performance Bank Guarantee of equivalent amount of two (2%) valid till defect liability . Please accept.	Bid provision shall prevail.
123	Section VIII - Contract Forms/Payment terms		Appendix-1 Terms and Procedures of Payment The advance shall be interest bearing which shall be based on yearly SBI Marginal Cost of funds-based Lending Rate (MCLR) plus margin of 200 basis points (to be compounded annually).	We request SJVNL to kindly consider of request which is as under:- The advance shall be interest free bearing which shall be based on yearly SBI Marginal Cost of funds-based Lending Rate (MCLR) plus margin of 200 basis points (to be compounded annually) again at submission of Advance bank guarantee. We would also like to mention that Interest bearing advance is not applicable in many Central PSU's. Therefore, we request you to modify this clause as per our request. Please accept	Bid provision shall prevail.
124	Section VIII - Contract Forms/Payment terms		Appendix-1 Terms and Procedures of Payment 6.0 MODE OF PAYMENT	We understand that the LC shall be of the total amount of Contract Value less advance. Please confirm.	Pl. refer the amendment.
125	Section VIII - Contract Forms/Price Adjustment, Appendix -2		1. APPLICABILITY: - (ii) The price adjustment shall be applied only if the resulting increase or decrease is more than 1% of the contract price as defined in the contract agreement	We request SJVNL to kindly consider of request which is as under:- The price adjustment shall be applied only if the resulting increase or decrease is more than 1% of the contract item price as defined in the contract agreement	Bid provision shall prevail.
126	Section VIII - Contract Forms/Price Adjustment, Appendix -2		3.1 Price Adjustment on Ex-factory prices for the plant and equipment shall be subject to a ceiling of ±30% (thirty percent) of Ex-Works component of the contract price respectively. The actual payment of escalation at any stage shall not exceed ±30% of cumulative Ex-Works of plant and equipment already supplied. Any escalation at any stage exceeding the aforesaid actual payment in either the Contract Price Component shall be kept to the credit of the contractor and shall be released as and when the actual payment of escalation falls below ±30% of cumulative Contract Price of plant and equipment already supplied, as the case may be. Any unadjusted credit shall however, lapse when the actual cumulative price adjustment payments reach the ceiling amount of ±30% of Contract Price component of the contract	We request SJVNL to kindly remove the ceiling limit+/- 30% under the Price Adjustment formulae. We would also like to mention that Ceiling limit in Price Adjustment formula is not applicable in many Central PSUs. Therefore, we request you to kindly remove this clause	Bid provision shall prevail.
127	Section VIII - Contract Forms/Price Adjustment, Appendix -2		5. SOURCE OF INDICES AND BASE VALUE A..... B..... C. Oil Filled Transformer D. Cables (with copper conductor) E. Cables (with Aluminium conductor)	The price variation indices of Oil-filled transformers and Cables do not consider all the material as per IEEMA. Therefore, you are requested to please consider the Price variation formula for both Oil filled Transformer & Cables as per IEEMA. Please accept.	Corresponding appendix has been revised.
128	General		Bank Guarantee format (EMD)	We request SJVNL to add Notwithstanding clause in the Bank guarantee format as requested by the bank (attached) which is as under:- This guarantee is non-assignable. This bank guarantee shall be governed by the laws of India and competent courts in xxxxxxxx shall have exclusive jurisdiction. Notwithstanding anything contained hereinabove: I. Our liability under this guarantee shall not exceed Rs. xxxxxxxx. II. This guarantee shall be valid for the period up to xx-xx-xxxx. III. Unless a demand or claim under this guarantee is made on us in writing on or before xx-xx-xxxx (expiry plus 12 months), we shall be discharged from all the liabilities under this guarantee, thereafter, irrespective of the original guarantee received or not.	Pl. refer the amendment. Also The following paras are acceptable: 1. This guarantee is non assignable. 2. This BG shall be governed by the laws of India and Competent Court in Shimla shall have exclusive jurisdiction.

CLARIFICATION (COMMERCIAL) - 1

129	General		ABG & PBG Guarantee format	We would like to inform you that our bank has made very few minor comments on the formats of Advance Bank Guarantees and Performance Bank Guarantees. These comments are standard in nature as per the bank's guidelines. We are enclosing herewith commented copies of the aforementioned Bank Guarantees. Request you to please provide us with your consent on the same to enable us to proceed further.	The following paras are acceptable: 1. This guarantee is non assignable. 2. This BG shall be governed by the laws of India and Competent Court in Shimla shall have exclusive jurisdiction. 3. "The Bank undertakes not to revoke this guarantee during its currency without previous consent of the Employer and further agrees that the guarantee herein contained shall continue to be enforceable till the Employer discharges this guarantee or till expiry date of the bank guarantee i.e xxxxx-xxxx whichever is earlier. "
130	General		BOCW Cess	As the tender is silent against BOCW cess applicability for the subject project. Moreover, as our scope of work is limited to E&M works, and hence we understand that the BOCW Cess is not applicable as per the judgment of the Supreme Court and Himachal Pradesh High Court. Further, if BOCW cess shall be applicable for this project. Kindly confirm the same will be applicable only on the services portion price or on the total contract price (supply and services both). Please confirm.	Pl. refer the amendment.
131	Section-I (Press Notice, NIT & IFB)		Bid Security: Rs. 16.72 Cr	We would like to inform that Bid Security as mentioned in your referred NIT is INR 16.72 Cr for 382 MW Sunni Dam HEP E&M Package. We would like to inform that for 540 MW Kwar HEP E&M Package as per Annexure-1 enclosed, the Bid Security Amount mentioned is INR 9.5 Cr. In this tender the budget for E&M package mentioned is INR 946.48 Cr that means Bid Security amount is 1% of the budget. We request you to kindly review your Bid Security Amount which in our opinion should not be more than INR 5.42 Cr. This bid security amount based on Sunni Dam E&M package budget of INR 542.96 Cr vide Annexure-2- Page No. 7/40 of Ministry of Power Office Memorandum ref no. 2/HP/58/CEA/2017-PAC/97-135 dated 11.02.2021 as enclosed.	Bid provision shall prevail.
132	Section-I (Press Notice, NIT & IFB)/4.3.2		WORKING CAPITAL : Capacity to have a cash flow amount /working capital of at least INR 58.34 Cr. or equivalent as evident from the immediately preceding financial year as per the audited balance sheet/ equivalent financial statements. Working capital/ cash flow amount shall be calculated by subtracting current liabilities (CL) from Current Assets (CA) i.e (CA-CL).	We request SJVN to kindly add following in the Working Capital Clause. If the Working capital calculated from the audited balance sheet is negative then Such working Capital shall be treated as Zero. In case there is a shortfall in the Working Capital as per this, the unutilized Cash Credit Limits sanctioned to the applicant by the Banks/ Financial Institutions of international repute shall be considered to meet the shortfall. The statement displaying Cash Credit limits should not be more than three months old as on the last date for submission of bids.	Pl. refer the Corrigendum - 6.
133	Section-I (Press Notice, NIT & IFB)/4.3.3		Average Annual Turnover: The second para : Related business means turnover from hydro business of the company	We request SJVN to kindly delete the second para.	Bid provision shall prevail.
134	Section-I (Press Notice, NIT & IFB)		General Notes for Financial Situation: (iii): Turnover of the bidder/partner from the related business shall only be taken into consideration for the purpose of evaluation. In case turnover is not shown separately in the financial statements, certificate from Chartered Accountant certifying turnover shall be submitted.	We request SJVN to kindly delete the clause.	Bid provision shall prevail.
135	Section-II (ITB)/3.1		Sr.No.3 of ITB: Eligible Bidders: Clause 3.1: This invitation to bid is open to all the National/domestic bidders who meet the Qualification Criteria as per Clause-5.5 hereunder	The clause need to be modified as follows: This invitation to bid is open to all the bidders who meet the Qualification Criteria as per ITB Clause No 5 (Qualification of bidder) & 6 (Nature of Bidders) hereunder.	Pl. refer the amendment.
136	Section-IV (GC)/10		Employer's Responsibilities	New Clause 10.9 to be added: Employer to provide free of cost plain land near to Power House Entrance for Storage of Plant & Contractor's Equipment, Site office & for temporary township as per contractor's requirement.	Bid provision shall prevail.

CLARIFICATION (COMMERCIAL) - 1

137	Section-IV (GC)	<p>General Conditions: Guarantees & Liabilities: Completion Time Guarantee: Liquidated Damages shall be payable for delay in completion of commissioning of any Unit @ of 0.05% of the price of each unit for a delayed period of 1(one) day or part thereof with a maximum limit for each unit as 10% price of each unit. The aggregate of liquidated damages payable shall, however, in total not exceed 10% (ten percent) of the aggregate of the total contract Price. The price of each unit for the sole purpose of calculation of Liquidated Damages only shall be as follows: First (1st) Unit (73 MW) : 19.11% of total contract price Second (2nd) Unit (73 MW): 19.11% of total contract price Third (3rd) Unit (73 MW): 19.11% of total contract price Fourth (4th) Unit (73 MW): 19.11% of total contract price Fifth (5th) Unit (73 MW): 19.11% of total contract price First (6th) Unit (17 MW) : 4.45% of total contract price</p> <p>Such payment shall completely satisfy the Contractor's obligation to attain Completion of the Facilities or the relevant part thereof within the Time for Completion or any extension thereof under GC Clause 40. The Contractor shall have no further liability whatsoever to the Employer in respect thereof. However, the payment of liquidated damages shall not in any way relieve the Contractor from any of its obligations to complete the Facilities or from any other obligations and liabilities of the Contractor under the Contract. Save for liquidated damages payable under this GC Sub-Clause 26.2, the failure by the Contractor to attain any milestone or other act, matter or thing by any date specified in the Appendix to the Contract Agreement titled Time Schedule, and/or other program of work prepared pursuant to GC Sub-Clause 18.2 shall not render the Contractor liable for any loss or damage thereby suffered by the Employer.</p>	<p>The first para of the clause to be modified as follows: Liquidated Damages shall be payable for delay in completion of commissioning of any Unit @ of 0.05% of the price of each unit for a delayed period of 1(one) day or part thereof with a maximum limit for each unit as 5% price of each unit. The aggregate of liquidated damages payable shall, however, in total not exceed 5% (five percent) of the aggregate of the total contract Price.</p>	Bid provision shall prevail.
138	Section-V (SCC)4	<p>Special Condition of Contract (SCC): Reference to GC 13.3.3: Delete the Sub-Para</p>	<p>Vide Section-IV, GC 13.3.3 Para as follows:Unless otherwise specified, the security shall be reduced by half on the date of the Operational Acceptance. The Security shall become null and void, or shall be reduced pro rata to the Contract Price of a part of the Facilities for which a separate Time for Completion is provided, five hundred and forty (540) days after Completion of the Facilities or three hundred and sixty five (365) days after Operational Acceptance of the Facilities, whichever occurs first; provided, however, that if the Defects Liability Period has been extended on any part of the Facilities pursuant to GC Sub-Clause 27.8 hereof, the Contractor shall issue an additional security in an amount proportionate to the Contract Price of that part. The security shall be returned to the Contractor immediately after its expiration, provided, however, that if the Contractor, pursuant to GC Sub-Clause 27.10, is liable for an extended defect liabilityobligation, the performance security shall be extended 60 days beyond the Defects Liability Period pursuant to GC Sub-Clause 27.10 and up to the amount 5%.</p> <p>There is no Subpara in GC 13.3.3. Please Clarify.</p>	PI. refer the amendment.
139	Section-V (SCC)	<p>Special Condition of Contract (SCC): Reference to GC 13.3.6: Deleted</p>	<p>Actually there is no GC 13.3.6 Clause in Section-IV</p>	As the clause is deleted hence the same is not reflecting in the GC.
140	Section-VIII (Contract Forms)	<p>Performance security form- Bank Guarantee (In case bid is submitted by Merged/Acquired/Subsidiary Company)</p> <p>NOTE: 1. This bank guarantee shall be submitted by Parent /Holding company. (*) This sum shall be three percent (5%) of the Contract Price.</p>	<p>Please check the amount in words & in figures.</p>	PI. refer the amendment.
141	Section-VIII (Contract Forms)/Annexure-VI-C	<p>Performance security form- Bank Guarantee (To be submitted by Manufacturer)</p> <p>Notes : 1. (*) This sum shall be three percent (5%) of the value of the sub-let works as identified in the Contract denominated in the types and proportions of currencies.</p>	<p>Please check the amount in words & in figures.</p>	PI. refer the amendment.

CLARIFICATION (COMMERCIAL) - 1

142	Section-VIII (Contract Forms)		<p>Insurance Requirements: Clause (b) Installation/ Erection All Risks Insurance.Covering physical loss or damage to the Facilities at the Site, occurring till Commissioning of the Facilities, with extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the Defect Liability Period while the Contract is on the Site for the purpose of performing its obligations during the Defect Liability Period. AMOUNT: 125% of the (Contract Price)</p>	<p>we would like to inform that we cannot guarantee to cover required insurance coverage of 125% as per SJVN Ltd insurance requirements. The reason is it depends on the Insurance Company to provide the required coverage.</p> <p>We strongly recommend the following:</p> <p>(i) SJVN Ltd as Owner should take insurance cover of the following occurrences, which are Major Perils/Acts of God beyond the control of Contractor:</p> <ul style="list-style-type: none"> (a) Earthquake (b) Landslide/Rockslide/Subsidence (c) Flood/Inundation (d) Storm /Tempest /Hurricane/Typhoon/Cyclone/Lightning or other atmospheric disturbances 	Bid Provision shall prevail.
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AMENDMENT - 1 (TECHNICAL)

AMENDMENT-I				
Electro-Mechanical Works of Sunni Dam HEP (382 MW)				
Sr. No.	Chapter No.	Clause No.	Original Tender Provision	Amended Tender Provision
1	Chapter 2, 8 & 18	Schedule V	Tools, Tackles and Instruments 1. Turbine & associated auxiliaries- 1 Lot 2. Generator & Associated Auxiliaries- 1 Lot 3. LV,MV Cable & cable trays-1 Lot	The Scope were covered in technical specification including at corresponding Schedule V; However, it was inadvertently left out at Price Schedule-I (Plant and Equipment (including Mandatory Spare parts Quoted on Ex-works basis) The bidders are requested to quote or load the price of items in price schedule-I at Part-A (in respective chapters i.e. A1, A7 & A17) corresponding to the items listed in Schedule V of Technical Specification.
2		GTS	Earthing Requirement in EM Package as per GTS Schedule B1	The Scope were covered in technical specification at corresponding Schedule B1. However, it was inadvertently left out at Price Schedule-I (Plant and Equipment (including Mandatory Spare parts) Quoted on Ex-works basis).-The bidders are requested to quote or load the price of items in respective chapters from Part A1 to A28 corresponding to the items listed in Schedule B1 of General Technical Specification.
3	1. General Technical Specification		NIL	<p>New Clause as "1.28" to be inserted after the clause 1.27 Draft Tube Profile for 73 MW Unit of Chapter-1 of GTS</p> <p>1.28 Definition of Lot:</p> <p>Contract price for (i) the items for which quantity have been indicated as lump sum or lot or set and / or (ii) where the quantities are to be estimated by the contractor shall remain constant unless there is a change made in the scope of the work by the employer. The quantities and unit prices (i) subsequently arrived while approving the bill of quantities (BOQ)/ Billing breakup of lump sum quantities/lot/set and/or (ii) estimated by the contractor shall be for on account of payment purpose only. In case additional quantities, over and above the quantities in BOQ/Billing breakup and/or estimated by the contractor are required for successful completion of the scope of work as per Technical Specification, the contractor shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum contract price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the contractor and they shall be allowed to take back the same from the site for which no deduction from the lump sum contract price shall be made. Further in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ/ Billing breakup and/ or estimated by the contractor, the lump sum contract price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities. It shall be the responsibility of the contractor to pay all statutory taxes, duties an levies to the concerned authorities for such surplus material which would other wise have been, lawfully payable in case of non-deemed export contracts. The contractor shall submit an indemnity bond to keep employer harmless from any liability, before release of such material to the contractor by employer.</p>
4		1.6	Preference for latest IEC standards for particular equipment / system shall be governed over IEEE/ IS/ ISO standards.	Preference for latest IS standards for particular equipment / system shall be governed over ISO/IEC/ IEEE standards.
5	2A. Turbine & associated auxiliaries	Clause 2.1.1	The bidder may propose the one speed lower for machine 10.0 m (L) x 5.0 m(W) x 5.0 m(H) (H from Road).	In addition to the TS provision, the Bidder may propose speed of 73 MW unit as 150 rpm and 300 rpm for 17 MW unit subjected that no change in Centre line in machine, no major change in dimension of power house (LXWXH) and shall be within the transport limit road dimensions of 10.0 m (L) x 5.0 m(W) x 5.0 m(H) (H from Road)."
6	2A. Turbine & associated auxiliaries	2.4.14.1	Shaft shall be ultrasonically inspected according to provision of ASTM-A-668.	Shaft shall be ultrasonically inspected according to provision of ASTM-A-668 with minimum. grade D material.

AMENDMENT - 1 (TECHNICAL)

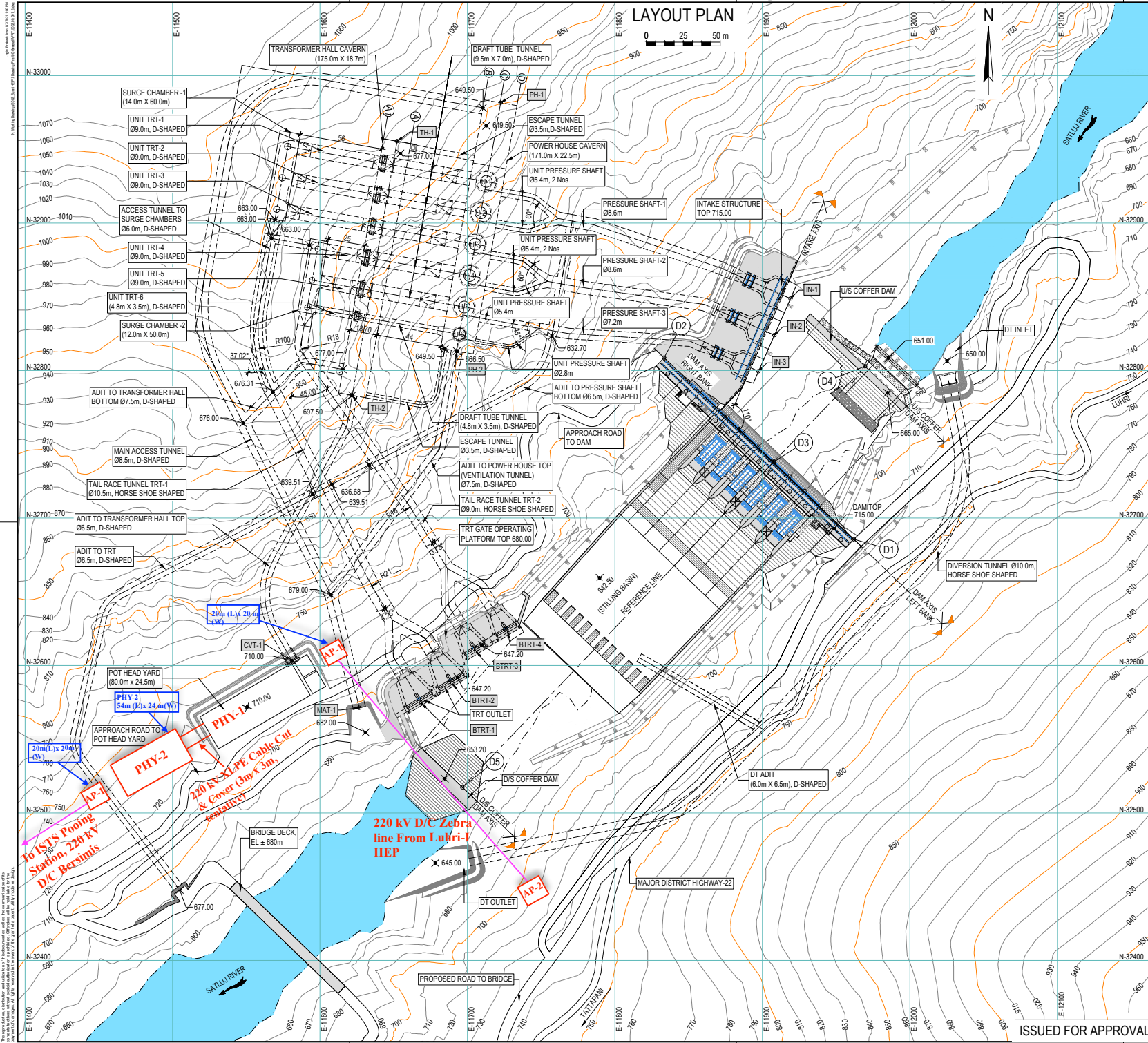
7	11.0 GENERATOR TRANSFORMER	Clause 11.1.1.2 (iii)	One (1) no. oil filtration system of capacity 5 kLPH..... suitable length i.e. from GT-1 to GT-6 as per layout.	One (1) no. portable oil filtration system of capacity 5 kLPH, suitable for dehydrating & vacuuming the transformer in minimum possible time along with provision of PPM measurement, vacuuming and sufficient no. of hoses having suitable length for one GT (for all the three phases at a time).
8	11.0 GENERATOR TRANSFORMER	Clause 11.1.1.2 (iv)	Tyre mounted towable capacity then the same shall be in the scope of bidder.	Tyre mounted towable adequately reinforced Insulating oil storage tanks each of capacity 10kl (2 sets) and 5 kl (1 sets) along with necessary hoses and accessories like straight coupling, level gauge, breathing equipment, drain & vents, clamps etc.
9	11.0 GENERATOR TRANSFORMER	11.7.1.8	Insulating Oil Following test of insulating oil shall be carried out in accordance with IEC 60296:- a) Dielectric strength b) Water content measurement c) Dielectric loss d) Power factor/ dissipation factor e) Interfacial tension f) Acidity g) Oxidation stability	Insulating Oil Test of insulating oil shall be carried out in accordance with IS-335
10	13.0 220kV XLPE Cables	Clause 13.1.1.1.A) 13.1.1.1.B)	Seven (7) nos. - single-phase, 220-kV, 800A, copper conductor, XLPE cables (including one spare cable of the longest length) for the interconnection of GIS to Pot Head yard-1, each run complete as per site condition, with all necessary auxiliary equipment and hardware. The tentative cumulative length of cable will be 3000 Meter. Seven (7) nos. - single-phase, 220-kV, 2000A, copper conductor, XLPE cables (including one spare cable of the longest length) for the interconnection of GIS to Pot Head yard-2, each run complete as per site condition, with all necessary auxiliary equipment and hardware. The tentative cumulative length of cable will be 3500 Meter.	Seven (7) nos. - single-phase, 220-kV, 800A-, copper conductor ,500 sq mm, XLPE cables (including one spare cable of the longest length) for the interconnection of GIS to Pot Head yard-1, each run complete as per site condition, with all necessary auxiliary equipment and hardware. The tentative cumulative length of cable will be 3000 Meter. Seven (7) nos. - single-phase, 220-kV, 2000A, copper conductor ,2500 sq mm, XLPE cables (including one spare cable of the longest length) for the interconnection of GIS to Pot Head yard-2, each run complete as per site condition, with all necessary auxiliary equipment and hardware. The tentative cumulative length of cable will be 3500 Meter.
11	14.0 Protection	Clause 14.3.2 (a-7)	Check Synchronizing Relay	Check synch relay for line breakers can be part of Distance protection. But for closing of buscoupler also check synch function to be considered in separate relay.Further separated Check Synch relay for line and Buscoupler shall be required for closing of C.B from OWS of CMS.
12				
13	8. Generator & Associated Aux	SCHEDULE OF MAND. SPARES	Schedule-III amended and enclosed.
14		8.3.1	Generator Shaft Material ASTM A 668	Generator Shaft Material ASTM A 668 Grade D
15		Clause 18.1.1.1	Please refer amended GAD Drawing no AFRY.5002.00.001 for distances. OFC to be routed in trenches.

AMENDMENT - 1 (TECHNICAL)

16	18. LV, MV Cable and Cable Trays	Clause 18.1.1.1 & 18.1.1.2	<p>1. Power Cables: vi. One (1) lot of power cables from EM panels to third party interface such as Hydro-mechanical equipment, civil infra equipment (ejector, water purification plant etc.) Load list of third-party equipment shall be as per Annexure-1 of this section.</p> <p>2. Control and Instrumentation Cables: iv. One (1) Lot of control cables from EM panels to third party interface such as hydro-mechanical panels, FOTE panels of Associated Transmission system (ATS). (Refer Annexure-1 of this section).</p>	Load requirement for third party panels attached as annexure-A
17	27. DG Sets	Clause 27.3.1 ii	Class of Insulation F	Insulation class of H.
18	15. Control & Monitoring Ssystem	Clause 15	GAD Drawing No. AFRY.5002.00.001	Please refer GAD No. AFRY.5002.00.001. for various Route Distances
	19. DC System	Clause 19		
19	Section-8	Payment terms	Appendix-1	Please refer amendment to Appendix 1 (Rev. 1)
20	Section-7 & 8	Price Adjustment	Appendix-2 & Attachment-15	Please refer amendment to Appendix 2 (Rev. 1) and attachment 15 (Rev. 1)

AMENDMENT - 1 (TECHNICAL)

LAYOUT PLAN



- Tentative Distance between Major Locations:**
1. Distance between SAT-1 to 22kV Board at GIS Floor=80m
 2. Distance between 22kV board at GIS floor & 22kV board at DAM=800m.
 3. Distance between 22kV board at GIS floor & SST-1=15m
 4. Distance between 22kV board at GIS floor & DSST-1=300m
 5. Distance between 22kV board at GIS floor & DST-2=305m
 6. Distance between 22kV board at DAM & DSST-1=20m
 7. Distance between 22kV board at DAM & DSST-2=20m
 8. Distance between LCB to Phyhead-2=500m
 9. Distance between LCB PHY-2 to control room = 375m
 10. Distance between DAM control room to Power house control room=900m
 11. Distance between Power house control room to TRT=500m
 12. Distance from DAM control room to TRT=450m

SETTING OUT POINTS

POINTS	EASTING	NORTHING
D1	11961.943	32685.615
D2	11833.321	32808.661
D3	11907.387	32737.806
D4	11969.602	32802.839
D5	11696.549	32517.418
IN-1	11919.009	32848.733
IN-2	11908.123	32823.970
IN-3	11897.368	32799.505
PH-1	11722.476	32981.574
PH-2	11692.782	32813.172
TH-1	11652.276	32955.467
TH-2	11621.888	32783.126
MAT-1	11626.695	32571.253
CVT-1	11581.184	32603.098
BTRT-1	11668.665	32574.521
BTRT-2	11690.033	32587.497
BTRT-3	11705.952	32609.449
BTRT-4	11727.320	32622.425

REFERENCE DRAWINGS:

- AFRY.5002.00.002 PROJECT LAYOUT
- AFRY.5002.00.003 GENERAL ARRANGEMENT
- AFRY.5002.00.004 WATER CONDUCTOR SYSTEM & LONGITUDINAL SECTIONS

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETER AND ELEVATIONS ARE IN METER UNLESS OTHERWISE SPECIFIED.
2. NO DIMENSION IS TO BE SCALED OUT. ONLY WRITTEN DIMENSIONS SHALL BE TAKEN AS CORRECT.
3. FOR DETAILS OF INDIVIDUAL STRUCTURE LIKE DIVERSION TUNNEL, COFFER DAM, INTAKE, DAM, PRESSURE SHAFT, POWER HOUSE & TRT, REFER SEPARATE RELEVANT DRAWINGS.
4. THE ACCESS ROADS SHOWN ARE INDICATIVE ONLY. THE ROAD ALIGNMENT AND GRADIENT SHALL BE MODIFIED AS PER SITE CONDITION.

REV No.	REVISION DESCRIPTION	DRAWN	CHECKED	APPD	DATE
5	ADIT TO TRT & ADIT TO TRANSFORMER HALL TOP UPDATED	PCJ	SRN	SSE	30.04.24
4	INTAKE AND PRESSURE SHAFT UPDATED	PCJ	SRN	SSE	12.03.24
3	ADDITION OF SURGE CHAMBERS	PCJ	SRN	SSE	16.02.24
2	REVISED AS PER LETTER NO. SJV/NSD/HEP/PC/CIVIL&M WORKS/2023-79	PCJ	SRN	SSE	25.09.23
1	REVISED AS PER SMH COMMENTS VIDE LETTER NO. SJV/NSD/HEP/PC/CIVIL&M WORKS/2023-204	DSR	SRN	SSE	26.05.23

- BID DRAWINGS
- INCEPT & BASIC DESIGN
- CONSTRUCTION DESIGN
- FEASIBILITY STUDY
- TENDER DESIGN
- AS-BUILT DRAWINGS

SJVN LIMITED
RITHVIK PROJECTS PRIVATE LIMITED
SUNNI DAM HEP (H.P.)

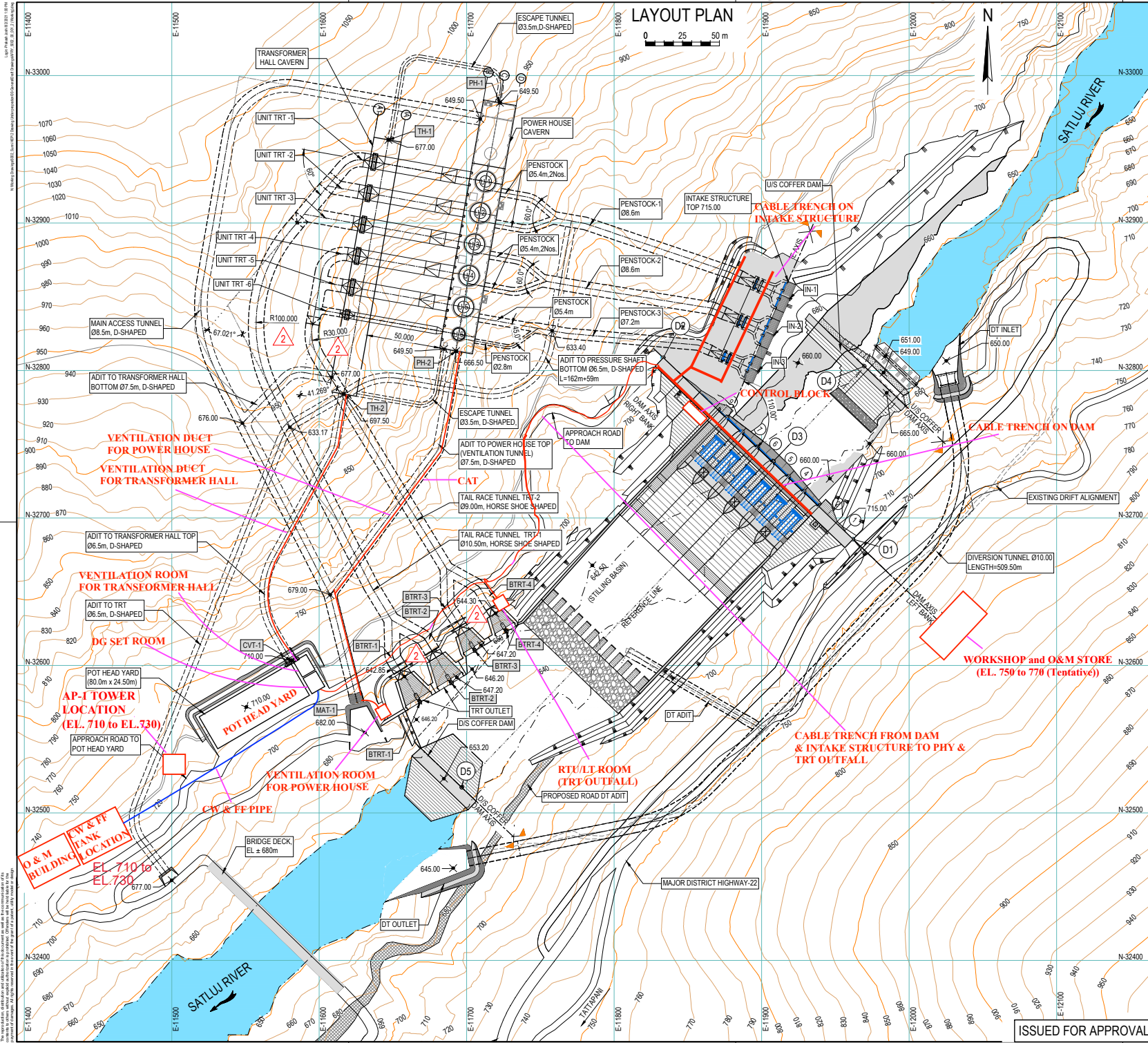
PROJECT LAYOUT GENERAL ARRANGEMENT

DESIGNED: SRN	SCALE: 1: 1500	FORMAT: A1
DRAWN: DSR	[1: 3000]	[A3]
CHECKED: TSK	DRAWING No.	REV No.
APPROVED: SSE	AFRY.5002.00.001	5
DATE: 15.03.23		



ISSUED FOR APPROVAL

AMENDMENT - 1 (TECHNICAL)



DIMENSIONS (L (m) x W(m))

1. O&M BUILDING - 15 m x 30 m
2. CW & FF TANK AREA - 30 m x 12 m
3. AP-1 TOWER AREA - 20 m x 20 m
4. DAM CONTROL ROOM (2 STORY) - 12 m x 10 m
5. DG SET AREA - 20.5 M x 12 m
6. VENTILATION ROOM (PH) AREA - 11 m x 21 m
7. VENTILATION ROOM (T-HALL) AREA - 11 m x 21 m
8. PHY AREA - 80 m x 24.5 m (as per Employer Requirement)
9. WORKSHOP and O&M store - 15 m x 30 m
10. CABLE TRENCH (DAM & Intake Structure) - 0.6 m x 0.6 m (tentative)
11. CABLE TRENCH (PHY & TRT) - 0.9 m x 1.2 m (tentative)
12. RTU/LT ROOM. - 5 m x 5 m

SETTING OUT POINTS

POINTS	EASTING	NORTHING
D1	11961.943	32685.615
D2	11833.321	32806.661
D3	11907.387	32737.806
D4	11969.602	32802.839
D5	11696.549	32517.418
IN-1	11919.009	32848.733
IN-2	11908.123	32623.970
IN-3	11897.368	32799.505
PH-1	11722.476	32981.574
PH-2	11692.782	32813.172
TH-1	11646.958	32956.405
TH-2	11616.570	32784.063
MAT-1	11626.695	32571.253
CVT-1	11581.184	32603.098
BTRT-1	11668.405	32574.948
BTRT-2	11689.774	32587.925
BTRT-3	11705.692	32609.876
BTRT-4	11727.061	32622.852

REMARKS: Draft Tube, TRT tunnel are on hold for awaiting Transient studies for downstream Surge Gallery.

REFERENCE DRAWINGS:

- AFRY.5002.00.002 PROJECT LAYOUT PLAN & GENERAL ARRANGEMENT
- AFRY.5002.00.003 L-SECTIONS

NOTE :

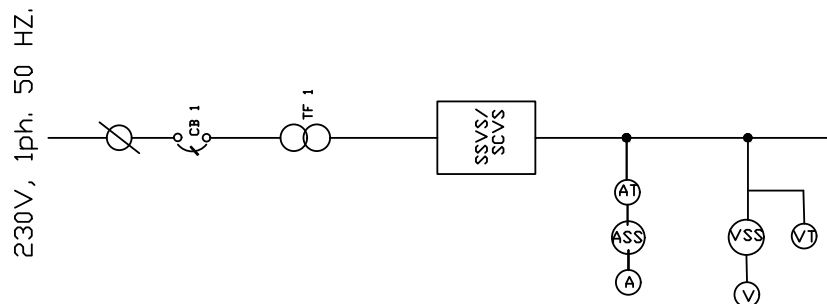
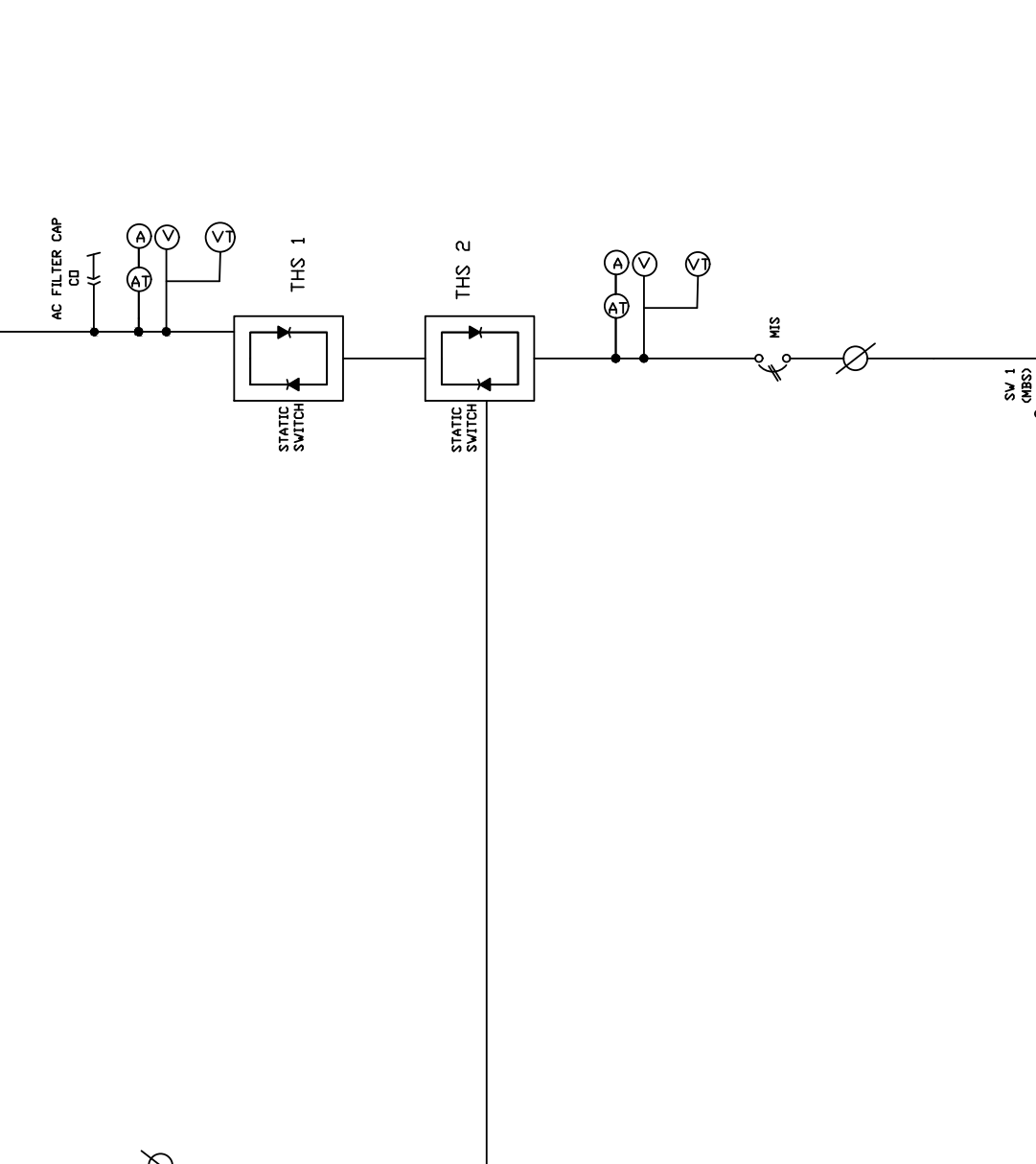
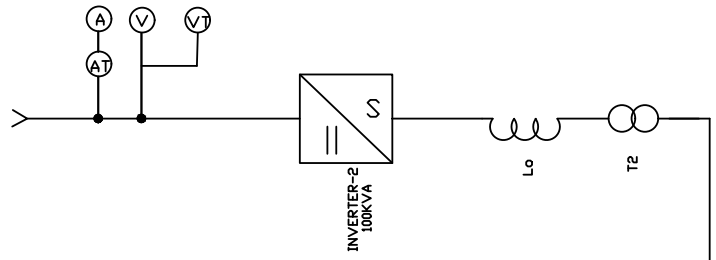
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2. NO DIMENSION IS TO BE SCALED OUT. ONLY WRITTEN DIMENSIONS SHALL BE TAKEN AS CORRECT.
3. FOR DETAILS OF INDIVIDUAL STRUCTURE LIKE DIVERSION TUNNEL, COFFER DAM, INTAKE, DAM, PRESSURE SHAFT, POWER HOUSE & TRT, REFER SEPARATE RELEVANT DRAWINGS.
4. THE ACCESS ROADS SHOWN ARE INDICATIVE ONLY. THE ROAD ALIGNMENT AND GRADIENT BE MODIFIED AS PER SITE CONDITION.

2		REVISED AS PER LETTER NO. SJVNS/DHEPE/CIVIL&HM WORKS/2023-79	PCJ	SRN	SSE	25.09.23
1		REVISED AS PER SAH COMMENTS VIDE LETTER NO. SJVNS/DHEPE/CIVIL&HM WORKS/2023-34M	DSR	SRN	SSE	26.05.23
REV. NO.	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED	DATE	
<input type="checkbox"/>	BID DRAWINGS	<input type="checkbox"/>	INCEPT. & BASIC DESIGN	<input type="checkbox"/>	CONSTRUCTION DESIGN	
<input type="checkbox"/>	FEASIBILITY STUDY	<input type="checkbox"/>	TENDER DESIGN	<input type="checkbox"/>	AS-BUILT DRAWINGS	
SJVN LIMITED						
RITHVIK PROJECTS PRIVATE LIMITED						
SUNNI DAM HEP (H.P.)						
PROJECT LAYOUT PLAN						
GENERAL ARRANGEMENT						
LAYOUT PLAN						
AFRY AFRY India Pvt. Ltd.		DESIGNED: SRN	SCALE: 1: 1500	FORMAT: A1		
		DRAWING: DSR	[1: 3000]	[A3]		
		CHECKED: TSK	DRAWING No.	REV. No.		
		APPROVED: SSE	DATE: 15.03.23	AFRY.5002.00.001		

ISSUED FOR APPROVAL

AMENDMENT - 1 (TECHNICAL)

220V
MAIN DCDB-1/2



NOTES:

1. ABOVE SCHEME IS FOR ESTIMATION PURPOSE ONLY. FEEDER RATINGS & QUANTITIES SHALL BE FINALIZED DURING DETAIL ENGINEERING AS PER SYSTEM REQUIREMENT.
2. MINIMUM 20% SPARE DC FEEDERS FOR EACH SIZE SHALL BE KEPT AS SPARE & MINIMUM ONE.
3. ALL TRANSDUCER SHALL PROVIDE ANALOG INTERFACE TO SCADA.

LEGEND:-

S.No.	SYMBOLS	DESCRIPTION
1.		INVERTER
2.		MOULDED CASE CIRCUIT BREAKER
3.		VOLTMETER
4.		AMMETER
5.		VOLTAGE TRANSDUCER
6.		CURRENT TRANSDUCER
7.		VOLTAGE SELECTOR SWITCH
8.		CURRENT SELECTOR SWITCH
9.		INDUCTOR
10.		TRANSFORMER
11.		TERMINAL BOX
12.		STATIC SWITCH
13.		HRC FUSE
14.		AC UNDERVOLTAGE PROTECTION
15.		EARTH FAULT RELAY

FOR TENDER PURPOSE ONLY

SHEET 3 OF 4

SJVN LIMITED		
सुन्नी डम जल विद्युत परियोजना SUNNI DAM HYDRO ELECTRIC PROJECT		
SINGLE LINE DIAGRAM FOR INVERTER -100KVA (AT POWER HOUSE)		
DSGN.	CHKD.	RECM.
DRWN.	RECM.	APPD.
ELECT. DESIGN DEPTT. SJVN LTD.		
DRG.NO. SJVN/ED/SDHEP/EM/14- Rev-1		OCT,2024

TENTATIVE LT LOAD REQUIREMENT FOR SUNNI DAM HEP

A. HM Loads				
Sr. No.	Description	Required Active Power (kW)	Remarks	
DAM COMPLEX				
1	Sluice Stoplogs- Gantry Crane (1 No.)	50	The load requirement is tentative as detailed design & drawings are yet to be submitted by contractor.	
2	Sluice Radial Gates- Hydraulic Hoists (6 sets)	600		
3	Spillway Flap Gate-Hydraulic hoist (1 set)	40		
INTAKE COMPLEX				
4	Trash Rack Cleaning Machine (1 No.)	130		
5	Main Intake Gates- Hydraulic Hoists (2 sets)	110		
6	Auxiliary Intake Gate- Hydraulic Hoists (1 set)	35		
7	EOT Crane at Intake (1 No.)	40		
POWER HOUSE COMPLEX				
8	Draft Tube Gates for Main Units-Rope Drum Hoists (5 sets)	300		
9	Draft Tube Gates for Auxiliary Units-Rope Drum Hoists (1 set)	25		
TRT OUTFALL STRUCTURE				
10	TRT Outfall Gates-Rope Drum Hoists (6 sets)	110		
CONTROL CABLE		LENGTH		
11	7C X 1.5 mm ²	2 km		
12	14C X 1.5 mm ²	2 km		

Notes - I:

- The electrical supply shall be 415V, Three Phase, 50Hz.
- Backup DG Supply shall be required for Sluice Radial Gates (Sr. No. 2), Main Intake Gates (Sr. No. 5), Auxiliary Intake Gates (Sr. No. 6) and Draft Tube Gates (Sr. No. 8 & 9)
- Electrical load of 5kW for each component has been considered in the above requirement for lighting & illumination of HM components only.

Notes – II:

- Please refer **GTS clause no. 1.17 & Annexure – X** also.

B. Civil Loads			
Sr. No.	Description	Required Active Power (kW)	Remarks
DEWATERING PUMP			
1.	Foundation Gallery	2 x 50 kW	
2.	Lift at Dam	50 kW	

C. EM Third Party Control Cables			
Sr. No.	Description	Length	Remarks
FOTE panels of ATS			
1.	4C X 4 mm ²	500 m	
2.	7C X 1.5 mm ²	500 m	
3.	12C X 1.5 mm ²	500 m	

**SCHEDULE III****SCHEDULE OF MANDATORY SPARES**

S. No.	Description	73 MW UNIT	17 MW UNIT
1.	Stator bars complete with insulation, insulation materials binding materials, windings etc.	5% of one complete set of top and bottom bar.	5% of one complete set of top and bottom bar.
2.	Pole assembled with winding damper buses (assembled with spare poles).	3 Nos.	2 Nos.
3.	Pole fastening wedges	4 pairs	2 pairs
4.	Upper guide bearing pads	Complete set of 1 unit	50% of Complete set requirement of 1 unit
5.	Thrust bearing pads	Complete set of 1 unit	50% of Complete set requirement of 1 unit
6.	Lower guide bearing pads	Complete set of 1 unit	50% of Complete set requirement of 1 unit
7.	Brushes for slip rings	Complete set for 1 unit	50% of Complete set requirement of 1 unit
8.	Brush holders	Complete set for 1 unit	50% of Complete set requirement of 1 unit
9.	Brake shoes/pads	Complete set for 1 unit	50% of Complete set requirement of 1 unit
10.	Air cooler units complete	1 No.	1 No.
11.	Oil coolers for bearings	Complete set for 1 unit	Complete set requirement of 1 unit
12.	RTD's for air circuits, bearings etc.	10% of complete plant requirement	
13.	Dial type thermometer for air circuit, bearing and bearing oil system	10% of complete plant requirement	



AMENDMENT - 1 (TECHNICAL)

SUNNI DAM HEP (382 MW)

S. No.	Description	73 MW UNIT	17 MW UNIT
14.	Thermostat/smoke detectors for fire extinguisher	1 no. of each type	1 no. of each type
15.	Water flow relays for air coolers, bearing oil reservoirs etc.	1 no. of each type	1 no. of each type
16.	Gasket for brake cylinders	2 Sets	2 Sets
17.	Gasket/washers for air coolers	4 Sets	4 Sets
18.	Coils, contacts, springs etc. for relays, contactors, breakers and auxiliary switches etc.	1 Set of each type	1 Set of each type
19.	Level switches/pressure switches, pressure gauge	2 no. of each type	2 no. of each type
20.	Gate valves & valves for water & oil piping	1 no. of each size	1 no. of each size
21.	Filter bags for brake dust collector		5 nos.
22.	Filter bags for carbon dust collector		5 nos.
23.	Vibration sensors		1 no.
24.	Oil moisture detector		1 no.

**SCHEDULE III****SCHEDULE OF MANDATORY SPARES**

Sr. No.	Description	Quantity
1.	Numerical Relay Unit	One (1) no. of each type
2.	Electromechanical relays	One (1) no. of each type
3.	Switches	Two (2) no. of each type
4.	MCB	Two (2) no. of each type
5.	DC supervision relay	One (1) no. of each type

CLARIFICATION -1 (TECHNICAL)

CLARIFICATION-I

Electro-Mechanical Works of Sunni Dam HEP (382 MW)

PRE BID TECHNICAL cum Techno-Commercial Clarification dated 14.10.2024

Sl. No.	Chapter No.	Chapter Name	Clause No.	Bidders Queries	SJVN Reply	Remarks																																																
General Technical Specification (GTS)_ Chapter-1																																																						
1			Clause 1.1.3	Climatic Condition Maximum Ambient Temperature : 40°C Minimum Ambient Temperature : 0°C Max. River Water Temperature : 15°C Minimum River Temperature : 6 °C Relative Humidity : 95% Maximum (during monsoons: 16 % (Minimum)	These are peak conditions. For Air Conditioning and Ventilation designing, detailed ambient conditions may please be furnished. 1.0 Summer - DBT, WBT, RH 2.0 Winter - DBT, WBT, RH 3.0 Monsoon - DBT, WBT, RH	The System to be designed as per the provisions of TS. However, the climatic conditions (i.e. DBT, WBT and RH) for Summer, Winter & Monsoon seasons shall be provided during detailed engineering.																																																
2			Clause 1.8	<input type="checkbox"/> Pushbuttons, indicating lamps, indicating instruments, recording instruments shall be from same supplier throughout the EM Package. <input type="checkbox"/> Numerical relays and Electromagnetic relays shall be from same supplier respectively throughout the EM Package.	We assume that a) Scope of work for a particular packages (like LTAC, DC system etc.) is splitted amongst various units/divisions of Bidder. b) Also Sub-vendor shall be finalised through competitive bidding at GeM portal and sub-vendors may be different for various EM packages. In view of above, it is not possible to supply the individual items (Pushbuttons, indicating lamps, indicating instruments, recording instruments, relays etc.) from same supplier for complete EM package. Kindly review and confirm the acceptance of above.	Approval of Sub Vendor shall be governed as per GTS Clause 1.12.																																																
3			Clause 1.8.2	For outside installation and area which are humid, corrosive, and prone to dripping and/ or spray of water, the protection class of cubicles shall be IP 65.	Please allow to consider cubicle with IP 55 for outside area as per IS/IEC 60529 where first numeral 5 is for dust-protection and second numeral 5 is for jet water ingress. Kindly confirm.	TS provision shall prevail.																																																
4	Chapter-1	GTS	Clause 1.8.3	Cabling and Wiring	We propose to consider 1.5sq.mm copper conductor for control wiring. Please accept the same.	Control wiring shall be 1.5sq mm/ 2.5 sq mm based on the requirement of system, to be decided during detailed engineering																																																
5			Clause 1.8.5	Terminal Blocks	We propose to submit the calculations for cable size selection of PT / CT and based on the requirements, we shall supply the same. Please review and confirm.	TS provision shall prevail.																																																
6			Clause 1.10	Civil works	Any kind of civil works (including minor like chipping / leveling, derting / painting etc.) are in the scope of bidder. Please confirm.	Civil work shall be as per GTS Clause 1.1.6.2, 1.10 and Chapter-22 .																																																
7			Clause 1.22.1	Earthing	We understand that the grounding conductor for equipment earthing only is in scope of bidder. The design and supply of earth mat, risers, earth mesh on each floor is in the scope of SJVNL. Please review and confirm.	TS provision shall prevail.																																																
8			Annexure-C	List of Standards q) Ventilation system xvi. ASHRAE Handbook, Data and Guide Book.	Data, guidebook, factors and details as indicated in ISHRAE handbook may also be allowed in addition to ASHRAE handbook, for design of HVAC system. Kindly accept and confirm.	ASHRAE/ISHRAE handbook is acceptable for design of HVAC system.																																																
9				Transformer Sizes given at stated Page Nos.	Kindly confirm the acceptable Size of Largest Package (Transformer Tank) for Transportation- (a) 31.5 MVA Transformer (b) 22 MVA Transformer Also, Please clarify, if there is any Space Constraint at Site for Final Erection of Transformer.	Transportation limitation has already been covered in GTS Clause 1.1.6																																																
10		Page 34 of 109 (GTS)	Civil Works	Civil Works mentioned anywhere in the tender document	We request customer to exclude civil works of any nature from E&M works scope. We request M/s SJVNL to kindly confirm.	TS Provision shall prevails.																																																
11		Page 35 of 109 (GTS)	1.11 Training of Engineers	The scope of work shall also include the training of engineers at the works of respective suppliers for the equipment / system specified herein: <input type="checkbox"/> Turbine and Governor <input type="checkbox"/> Generator and excitation system <input type="checkbox"/> GIS <input type="checkbox"/> Control & Protection System <input type="checkbox"/> EOT Crane	We understand that all other expenditure apart from training including that towards living / boarding & travelling (to & fro) shall be borne by SJVN. Kindly note that no discount in price shall be offered in case training is not availed. Kindly confirm.	Please refer GTS Clause 1.6.2																																																
12	Section 1. General Technical Specification (GTS)	Page 000171 of Annexure III		Sr No 4 E&M Works i.e. Generator Erection & Boxing up by E&M Contractor	Duration specified for activities mentioned against Sr no 4; is on lower side wrt to quantum of work executed in this activity. We request customer to please review and increase the duration considered for as per attached sheet We request M/s SJVNL to kindly confirm.																																																	
					<table border="1" style="font-size: small; border-collapse: collapse; margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th></th> <th>U1</th> <th>U2</th> <th>U3</th> <th>U4</th> <th>U5</th> <th>U6</th> </tr> <tr> <th></th> <th></th> <th>(73MW)</th> <th>(73MW)</th> <th>(73MW)</th> <th>(73MW)</th> <th>(73MW)</th> <th>(174MW)</th> </tr> </thead> <tbody> <tr> <td>Existing clause</td> <td>After availability of base till completion of unit</td> <td>Days</td> <td>256</td> <td>252</td> <td>231</td> <td>206</td> <td>165</td> </tr> <tr> <td></td> <td></td> <td>Months</td> <td>8</td> <td>8</td> <td>8</td> <td>7</td> <td>5</td> </tr> <tr> <td>Proposed</td> <td>After availability of base till completion of unit</td> <td>Days</td> <td>360</td> <td>360</td> <td>360</td> <td>360</td> <td>300</td> </tr> <tr> <td></td> <td></td> <td>Months</td> <td>12</td> <td>12</td> <td>12</td> <td>12</td> <td>10</td> </tr> </tbody> </table>			U1	U2	U3	U4	U5	U6			(73MW)	(73MW)	(73MW)	(73MW)	(73MW)	(174MW)	Existing clause	After availability of base till completion of unit	Days	256	252	231	206	165			Months	8	8	8	7	5	Proposed	After availability of base till completion of unit	Days	360	360	360	360	300			Months	12	12	12	12	10	
		U1	U2	U3	U4	U5	U6																																															
		(73MW)	(73MW)	(73MW)	(73MW)	(73MW)	(174MW)																																															
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		Months	8	8	8	7	5																																															
Proposed	After availability of base till completion of unit	Days	360	360	360	360	300																																															
		Months	12	12	12	12	10																																															
13		Page 56-60 of 109 (GTS)	Annexure - A		The proposed rate of Evaluation, Penalty and Rejection Criteria as envisaged in the tender may please be reviewed and amended in accordance with point no. 28 above. Kindly confirm.	TS Provision shall prevails.																																																
Turbine & Associated Auxiliaries_Chapter 2A																																																						
14			Clause 2.1.1.1	Stationary / removable components including stay ring, spiral case, draft tube cone, discharge ring, bottom ring, head cover, guide apparatus and regulating mechanism, rotating & stationary labyrinth etc.	The bidder would like to clarify that the discharge ring is not applicable for Francis Turbine, as it is typically used only in axial flow machines. Kindly provide your acceptance to above request / proposal.	Accepted.																																																

CLARIFICATION -1 (TECHNICAL)

15			Clause 2.1.1.1	xviii) Two set of station filling valve with associated accessories in the spiral inlet pipe (Refer DCG of Cooling water System).	In the DCG of Cooling water system station filling valve with associated accessories in the spiral inlet pipe is not shown please clarify the requirement.	Kindly refer tender drawing of DCG of CWS DRG. NO. SJVN/ED/SUNN/EM/17	
16			Clause 2.3.5.1	The supplier shall guarantee the guide-vanes, runner, discharge ring and other hydraulic passage against excessive pitting caused by cavitation for a period of 24 months from the date of takeover by the purchaser or 8000 hours of actual operation whichever is earlier. Excessive pitting shall be defined as the removal of metal from runner and other water passage components, exceeding a weight W = 0.1 D2.....	We shall offer cavitation guarantee as per IEC 60609. This is a regular International practice & followed in most of the tenders. Please accept & confirm.	Accepted.	
17			Clause 2.4.6 Labyrinth	Suitable flowmeter shall be provided in the labyrinth leakage/pressure- relief pipe connected with top cover and draft tube and same shall be decided during detailed engineering. Threshold value of normal/abnormal leakages shall also to be provided.	The bidder understands that the Employer requires a flowmeter to measure labyrinth wear through leakage. Instead of flow meter the bidder proposes using a pressure gauge to monitor pressure variations in the labyrinth, which will indicate wear in the labyrinth gap on the head cover side. On the draft tube side, it is not practically feasible to install a pressure gauge or flowmeter, as the design does not allow for such provisions, and water leakage will pass directly through the draft tube to the tailrace side. Kindly provide your acceptance to above request / proposal.	TS provision shall prevail.	
18			Clause 2.3.7.4 (IV)	The Clauses states " iv. Air admission test for the whole sigma range operation."	Air admission test will be conducted if pressure pulsation at any point in the operating range exceeds permissible limits. Please modify the clause accordingly.	Accepted	
19			Clause 2.4.8.	A circular manhole with watertight bolted door with a clear opening of 800 mm, when closed to be flushed with the interior of the casing or to be finalized during detailed engineering. The factor of safety shall be minimum three (3) on yield point. Suitable arrangement (ladder/walkway/stairs) to access the manhole shall be provided.	Bidder would request to allow bidder to design the size of manhole as per the size of spiral case – to be decided during detail design. Kindly provide your acceptance to above request / proposal.	Accepted. However size to be decided during detailed engineering	
20			Clause 2.4.10 Draft tube	The draft tube design shall be such that the frequency and amplitude of draft tube pressure pulsations/surges, anticipated on the basis of conducted model test (73 MW Unit)/ similar model test report (17 MW Unit), may not be close to the natural frequency of the generating unit to prevent resonance and objectionable power swings. The Bidder shall submit calculations in consultation with the generator supplier	Bidder would like to clarify that such rating of machines, natural frequency and amplitude analysis is not a general industry practice and it also doesn't contribute to the performance evaluation significantly. Therefore, we kindly request the deletion of this requirement. Kindly provide your acceptance to above request / proposal.	TS provision shall prevail.	
21			Clause 2.4.12	Individual connection from gate operating ring to wicket gates comprising a set of levers and links.	Bidder would like to clarify that our standard design envisages using limit plates instead of lever and links. Benefit of using the limit plates is that guide vanes can be easily replaced in original position without exchanging other broken elements. Limit plates displacement is designed to allow maximum trash rack clearance and so the limit plates as well as the guide vanes will not fail in any case. In case of the arrangement with levers and links, the shear pins will also have to be replaced every time there is a breakage. Kindly provide your acceptance to above request / proposal.	In addition to the TS Provision, Bidder proposal is acceptable subjected to examination during detailed engineering	
22			Clause 2.4.14	The Bidder shall submit data, computation, and analysis for critical speed shaft diameter to the Purchaser for approval. The critical speed of the shaft shall be sufficiently (not less than 25 %) higher than the runaway speed.	The Bidder would like to mention that the first critical speed as per standard industry practice is 15% above runaway speed, which is also adequate for ensuring safe and vibration-free operation of the unit. In view of this, the Bidder would request modifying the first critical speed from 25% above runaway speed to 15% above runaway speed. Kindly provide your acceptance to above request / proposal.	TS provision shall prevail.	
23			Clause 2.4.15 Turbine Guide bearing	Withstand operation for a period of at least 15 minutes at a low speed of 5% rated speed with cooling water on	The bidder would like to clarify that allowing the machine to run at 5% of its rated speed can result in a damage to the bearing pads. Therefore, it is recommended not to let the machine rotate under such conditions. Instead, brakes should always be applied when the machine is in a standstill position. Kindly provide your acceptance to above request / proposal.	TS provision shall prevail.	
24			Clause 2.4.15 Turbine Guide bearing	Resistance temperature detectors (RTDs), one in each alternative pads (Half the number of pads) in the bearing metal and two in the bearing oil for bearing and oil temperature indication and recording at a remote location will be provided.	Bidder would like to clarify that the bearings of 17 MW machine shall be very compact in size and therefore we recommend supplying only one RTD for bearing and only one RTD for bearing-oil. Kindly provide your acceptance to above request / proposal.	TS provision shall prevail. However, detailed examination shall be done during detailed engineering based on good industry practices.	
25			Clause 2.4.17	Monorail with suitable hoisting arrangement and girders for handling turbine equipment inside the turbine pit along with a hoist of adequate capacity to lift the wicket gate or any other items in turbine pit.	The bidder would like to clarify that, due to the limited space in the turbine pit area for such a small-sized machine, installing a monorail with a hoisting arrangement is not practically feasible. Therefore, we kindly request the removal of this requirement. Kindly provide your acceptance to above request / proposal.	TS provision shall prevail. However, detailed examination shall be done during detailed engineering based on good industry practices.	
26			Clause 2.6.1	vi. The bidders shall also enclose various supporting drawings and design materials pertaining to the equipment offered by them. These shall cover: a) Assembly, disassembly, maintenance, repair, replacement procedures and time required for same. b) Bidder shall justify with offer the expected time, in hours, required for maintenance of the eroded turbine components on the following basis:- - Total time (in days considering three working shifts) including dewatering and filling operations needed to replace with spares, i.e. turbine runner, the wicket gates, the cheek plates and wearing rings and any other movable parts subject to wear due to silt erosion or abrasion.	Please note that the Assembly, disassembly, maintenance, repair, replacement procedures and time required for the required turbine parts shall be provided during detailed Engineering along with the detailed Operation & Maintenance Manual.	The documents shall be provided during detailed engineering.	
27			Clause 2.12 Provision for Synchronous Condenser Mode	Entire scope i.e. operation of Turbine in Synchronous Condenser mode (except the HP compressed air system including all associated items into the turbine pit) such as Piping, Valves, blind/blank flanges, fittings, cooling arrangement etc. along with necessary auxiliaries/associated items shall be provided by EM Contractor The detailed requirement shall be worked out detailed engineering subjected to employer's approval.	Referring specified clause we infer that all the necessary arrangements of synchronous condenser operation in unit design shall be taken care along with supply of piping and valves excluding HP compressors and receivers. Kindly confirm.	Requirement is already covered in the provisions of TS.	
Compressed Air System _ Chapter-4							
28	Chapter 4	Compressed Air System	Clause 4.1.1.1	i) One (1) set of LP compressors System complete with associated accessories for generating unit such as air supply to generator braking, shaft seal, cooling water system etc. ii) One (1) set of LP compressors System complete with associated accessories for Station services such as service air supply points, other permanent/ temporary installations, purging operation for Filters/strainers etc.	We propose to use 1 set (2 nos.) LP compressor of suitable capacity for compressed air requirement of generating sets as well as for station services requirement with 1 no. common air receivers and 1 no. independent air receiver for each unit of suitable capacity. Kindly accept and confirm.	Accepted	
29			Clause 4.3.2.1 e)	Each compressed air system shall have a single air receivers vertical type 7 kg/cm ² rating located near to each other and connected to the two compressor sets as shown in the drawing titled "LP Compressed Air System (Schematic Diagram). The Receiver System shall be of the minimum capacity 4 m ³ capacity. The Generator Brake Air System centralized air receiver shall be such as to cater to the requirements of the banks of all the units at the most adverse operating conditions	We propose to use an independent air receiver for each unit of suitable capacity for generator braking considering the safety & failsafe operational. Compressed air requirements of other systems that are not critical shall be catered to by the service air receiver. Kindly accept and confirm.		
Drainage & Dewatering System _ Chapter-5							

CLARIFICATION -1 (TECHNICAL)

30	Chapter-5	Drainage & Dewatering system	5.1.1.1	Pump capacity of all the pumps shall be same for drainage, dewatering, flood dewatering, to ensure interchangeability, spare management and flood dewatering management.	We understand that if the calculated capacity of the drainage pump and dewatering pump is near to each other i.e. within -110 to -120% of the capacity of each other, then all the drainage, dewatering & flood dewatering pumps can be considered as of same capacities, please confirm.	Accepted
31			5.1.1.1	Pressurized hatch cover of dewatering sump shall be kept open during normal plant opening condition and whereas hatch cover shall be closed during unit dewatering.	As the pressurized hatch cover is provided with sealing arrangement to make it water tight, therefore it shall be kept closed during normal plant operation as well as during unit dewatering. Please confirm.	TS provision shall prevail.
32			5.1.1.1	Header for each sump system (Drainage, Dewatering and Flood dewatering) shall be independent and to be routed to river above PMF as per the scheme attached.	As per DRG. NO. SJVN/ED/SDHEP/EM/19, all the independent headers of drainage, dewatering & flood dewatering systems are inter connected with isolating valves, which is not required considering independent operations of the system. Kindly confirm.	TS provision shall prevail.
33			5.1.1.2	i) One Set of Hoisting Mechanism (Monorail, Inserts/embedment, Pit Hoist of suitable capacity) for drainage, dewatering, flood dewatering equipment along with all accessories in ceiling of Generator/ Turbine floor at EL. 640.20 m as per Good Industry Practice	We understand that manual monorail hoist is required, please confirm.	Monorail shall be designed with Hoisting mechanism for handling of pumps, motors, etc. in sumps.
34			5.3.1.4, i)	i) The system shall take care of any leakage, seepage in powerhouse and transformer hall including MAT/ CVT to avoid any potentially disastrous effect.	To optimize the sizing of drainage system equipment's, pit & piping, it is proposed to have a separate local drainage system in transformer hall, from where all the seepage can be discharged. This separate drainage system for transformer hall shall have 4 nos. submersible pumps with 50% capacity each along with starter panel, submersible cables up to starter panel (no junction box allowed between starter panel and pump) and associated accessories for automatic operation. Kindly accept and confirm.	TS provision shall prevail.
35			5.3.1.4, V)	The drainage headers shall also be connected to the dewatering header through normally closed motorized gate valve.		TS provision shall prevail.
36			5.3.4	Discharge of water from Drainage, dewatering and flood sump shall be carried through independent pipe of individual sump. The sizing of these piping shall be done in such a way that in case of emergency, when all pumps (main + standby) are operating, the total discharge of can flow through these pipes.	Considering independent operations of the drainage, dewatering & flood dewatering system, there headers are not required to be inter connected. Kindly confirm.	TS provision shall prevail.
Governor & Associated Auxiliaries Chapter-6						
37	CHAPTER-6	GOVERNORS AND ASSOCIATED AUXILIARIES	6.1.1.1	100% Redundant LVDT on each servomotor	We recommend the magneto-restrictive type position feedback device in place of LVDT & non contact type	TS provision shall prevail. However, any other position transmitter proven in Hydro Industry shall be examined during detailed engineering.
38			6.1.1.1	Redundant Servo valves	Proportional valve & servo valve are same, therefore redundant proportional valve with Main oil distributing valve shall be considered, kindly confirm.	TS provision shall prevail. However, detailed examination of equivalency to be made during detailed engineering.
39			6.1.1.1	Oil piping and valves upto Penstock drainage valve etc.	Penstock drainage valve shall be manual type, so oil piping requirement for penstock drainage valve is not applicable. Kindly accept and confirm.	Penstock drainage valve shall be motorised operated valve(MOV) along with manual guard valve for each penstock.
40			6.4.3.2	The electro-hydraulic interface components and accessories necessary for the hydraulic actuator like transducers, relay valve, solenoid valves, switches, terminal blocks shall be housed in actuator cabinet located near OPU	Actuator cabinet shall be mounted on OPU sump tank, which will reduce the piping interface between OPU sump tank & actuator cabinet, please confirm	Detailing shall be done during detailed engineering
41			6.4.3.1	Position feedback from each turbine servomotor shall be from a highly reliable, non contacting type positioning transducer	We recommend the magneto-restrictive type position feedback device in place of LVDT & non contact type	Detailing shall be done during detailed engineering
42			6.5.2.5	Gate position & gate limit control and indication	This is not applicable for servo/proportional valve based governor.	TS provision shall prevail.
43			6.4.4.4	The sump tank shall be provided with a manhole of 600 mm diameter with a suitable oil resistant gasket for access to the interior of the tank.	The manhole size of sump tank depends on its actual capacity, so manhole shall be provided as per tank size, please confirm.	Detailing shall be done during detailed engineering
44			6.4.4.5	Pump Suction filter	It is not recommended to use suction filter at inlet of pump considering its maintenance during operation which will lead to increase in OPU down time. Please confirm to exclude the suction filter.	Detailing shall be done during detailed engineering
45			6.7.1	The following items shall be completely assembled aligned & match marked to ensure correct re-assembly	As these item shall be connected to pipe line of oil pressure system so " match marking" is not applicable.	TS provision shall prevail. However detailing shall be done during detailed engineering.
46			Schedule	2 No. Electro hydraulic transducer (EHT) as spare is mentioned	As EHT is not applicable for servo/proportional valve based HMC, therefore it is requested to recommend to supply the 2 No. servo-proportional valve.	TS provision shall prevail.
47	1 no. flow transmitter & 1 no. flow gauge is mentioned in spare	We recommend 1 no. electromagnetic flowmeter which will show the flow locally & also transmit the 4-20mA signal for SCADA		TS provision shall prevail.		
Generator & Associated Aux. Chapter-8						
48			8.1.1.1 Generator & Auxiliaries	iv) One (1) set of radial jacks for upper bracket for 17 MW unit (if applicable)	Please note that for this small unit of 17 MW it is not applicable as the offered Generator is free standing Generator.	Accepted
49			8.1.1.1 Generator & Auxiliaries	viii) One (1) set of water sprinkler type fire protection system for generator complete in all respect for 17 MW unit.	For this small unit of 17 MW the offered generator is with global VPI insulation system in which chances of failure of stator winding is very less, so complete fire fighting system is not necessary and only portable fire extinguishers system will also work, kindly accept.	Accepted
50			8.1.1.1 Generator & Auxiliaries	x) One (1) set of carbon dust collector system for 17 MW unit.	For this small unit of 17 MW brushless excitation system is the best solution with less maintenance, and if brushless excitation system is acceptable then this system is not required, kindly accept.	TS provision shall prevail.
51			8.1.1.1 Generator & Auxiliaries	xvi) One (1) set of the slip ring and slip ring compartments for 17 MW unit.	For this small unit of 17 MW brushless excitation system is the best solution with less maintenance, kindly accept.	TS provision shall prevail.
52			8.3.2.2	Generator stator and rotor winding temperature rise, while delivering continuously 94.5 MVA (110% of rated output) and 22 MVA (110% of rated output) shall not exceed following by considering ambient design temperature of 40 deg C. i) Temperature limits: a) Stator winding 80 deg C b) Rotor winding 85 deg C	It may please noted that specified limits are very much on lower side & will result in increase in size & cost of the machine. In our opinion the limits of temp. rise may be taken as specified in IEC-34-1BS-12802, which are reproduced as follows (Zone B operation of voltage and frequency range) At rated output - Stator winding : 85°K (ETD) - Rotor winding : 90°K (Resistance) For overload condition the temp. rise limits may be taken as 10°K more than above temp. rise limits. It may please be noted that above limits are (on rated load) for class B temp. rise, while our insulation system is class F, which has 155°C temp. limit. Hence above limits are in safe zone with adequate safety margins. Please review and confirm the same.	Accepted
53			8.3.2 Insulation & temperature rise limits	Temperature limits: a) Stator winding = 80 deg. C b) Rotor winding = 85 deg. C	For this small unit of 17 MW kindly consider the temperature limits as per IEC i.e. a) For stator winding = 85 deg. C b) For rotor winding = 90 deg. C Kindly accept.	Accepted
54			Clause 8.3.8	ngav = Guaranteed Weighted average efficiency of the turbine as computed above at design/rated head.	There appears to be a typographical error in the specification. We consider this as below: "ngav = Guaranteed Weighted average efficiency of the Generator as computed above."	Accepted

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55		Clause 8.3.8	Generator & Associated Aux. 8.3.8. Individual losses (including excitation losses for the excitation system and thrust bearing losses attributable to generator) shall be established using calorimetric or retardation method and the efficiencies shall be determined by the summation of individual losses as per international code, IEC: 60034-2.	Tolerance on the losses shall be considered in accordance with IEC 60034-1. Please confirm.	Bidder to provide absolute value of losses. No tolerance on the absolute value shall be considered.
56		8.4 Design and construction of Generator	8.4.1.8 The guide bearings shall be such construction that these can be removed / dismantled without disturbing the thrust bearings, rotor, stator etc.	For this small unit of 17 MW kindly accept the bidders proposal.	TS provisions are ample clear .Please refer last para below Clause 8.1.1.1 xvii)
57		8.4 Design and construction of Generator	8.4.1.12 The rotor construction shall be such that rotor poles are easily removable and replaceable. The poles shall be interchangeable.	For this small unit of 17 MW rotor poles removable and replaceable without removing the upper bracket is not feasible, kindly accept.	TS provisions are ample clear .Please refer last para below Clause 8.1.1.1 xvii)
58		Clause 8.4.1.4	For unit stress limits, provisions specified under clause no. 2.4.5 of chapter 2 (Turbine and its Auxiliaries) shall prevail.	There seems to be typo in the specification's clause reference for the stress limits. The said stress criteria are found in clause 2.3.5.4 Design stress Limits Chapter 2: Turbine & Associated Aux, Page 20 of 66, we will consider this for the Generator design.	Accepted
59		8.4.2	Housing and Support The Generator manufacturer shall supply a fabricated steel Top cover which shall not required bolting into position and shall be provided with tapped holes or equivalent for lifting.	Please provide the live load capacity required on the Top cover.	To be examined during detailed engineering
60		Clause 8.4.2 Housing and support	The concrete housing for the generator shall be air tight. The generator manufacturer shall supply a fabricated steel top cover.	For this unit of 17 MW the offered generator shall be free standing generator means no concrete barrel and no top cover shall be applicable, kindly accept.	TS provisions are ample clear .Please refer last para below Clause 8.1.1.1 xvii)
61		Clause 8.4.3.3	Minimum two terminals shall be brought out on neutral side for providing split phase protection (if applicable for 73 MW unit).	Split-phase protection is specified. Please note that Split-phase protection is used for detection of inter-turn short of the multi-turn coils & since bar type winding has only single turn, this protection is not applicable. Hence, may please be deleted.	Split phase protection stands deleted.
62		8.4.5	The Combined Thrust and Guide Bearing and the upper Guide bearing shall be of Self Lubricated Type with External/Internal Type oil to water cooler inserted in the bearing Compartment.	Bearing Design shall be self or forced Lubricated that depends on E&M contractor design criteria that we can only confirm at the time of system engineering.	TS provision shall prevail. Deviation (if any) shall be listed in the respective attachment of Bid Document.
63	Chapter-8	Clause 8.4.6.9	One AC motor driven pump and one DC motor driven pump shall be provided for this system. The pumps shall operate as main and standby pump. AC pump shall work as main and DC will work as Standby in normal case.	Kindly note that HP Lubrication System is used only during starting and stopping of machine & standby AC pump motor is preferable as compared to DC pump motor.	TS provision shall prevail.
64		Clause 8.5.1.1. Brakes	Each Generator shall be provided with pneumatically operated brakes of sufficient capacity to bring the rotating of generator and turbine to stop from 30% of rated speed in normal operation.	For this unit of 17 MW the brakes shall be of hydraulic operated to bring the rotating parts to standstill, kindly accept.	TS provisions are ample clear .Please refer last para below Clause 8.1.1.1 xvii)
65		Clause 8.5.11.4	Shaft current, voltage monitoring device	For hydro generator shaft voltage monitoring is not applicable due to impractical voltage signals as the shaft of hydro generator are earthed with the earth brush. Kindly accept and confirm.	TS provision shall prevail.
66		Clause 8.4.7.2	Automatic air vents with drain pipes shall be provided at the top to prevent air locks in the coolers. Lifting lugs shall be provided to facilitate the removal of any cooler through the top of the generator cover. Each cooler shall be provided with a pocket for inserting thermometer on discharge end. The cooling water pipes inside the barrel shall be of stainless steel suitably coated with fine quality paint to prevent damages due to condensation on pipes. Circulation of cooling air shall be accomplished by generator's rotor itself. Various sensors and instrumentation shall be provided.	As per our practice we suggest, 1. Cooling tube of hydrocoolers shall be 90:10 Cupronickel as per SB111 C70600. 2. Pocket for inserting thermometer shall be provided in the CW piping, not on cooler discharge. 3. Air cooler tubes shall be high finned tubes , with tube to tube-sheet expansion joint. Air cooler tubes are not inter-changeable . Kindly consider.	TS provision shall prevail.
67		Clause 8.4.7	The Air Cooler shall be Frame mounted type with Air Cooler Tubes made of Cupro-Nickel Alloy.	In general Practice Air water Cooler tubes made of Cu-Ni Alloy (90:10) kindly confirm the material.	Accepted
68		Clause 8.4.7	Ventilation & Cooling System	Required Ventilation system design is Fan type or Rotor Rim ventilation. Because It is not mentioned any where. Kindly confirm	To be examined during detailed engineering
69		8.6 Drawing, documents and design calculations	-	mentioned document will be shared after award or contract during our design. Kindly consider.	TS provisions are ample clear (to be provided bid/during detailed engineering)
70		Clause 8.7	-	All the tests written in the tender is for large unit and for this unit of 17 MW we will submit the separate inspection and test plan (ITP) along with bid documents, kindly accept.	Please refer last para below Clause 8.1.1.1 xvii)
71		Clause 8.7.3-iii	(iii) Two randomly selected bars shall be subjected to accelerated life test at increased voltage and temperatures Test certificates of similar or higher rating generator is also acceptable.	Accelerated aging test is specified. Our insulation system is a proven one and has experience of more than 50 years of successful operation in over 500 generators. In view of above, we will provide Test certificates of similar or higher rating generator.	Accepted. However, Clause 1.16 (b) of GTS shall be applicable.
72		Clause 8.7.4.4	Type Tests : The following type tests of the equipment shall be carried out at site by the Contractor after successful commissioning of the generating units. The contractor shall submit the complete procedure, connection arrangement, instruments to be used at site for conduction if these tests and site requirements to the employer for approval for conductance of these tests on one unit to be decided by the employer. Type test shall fall under cat-1 (As per GTS): (i) Determination of characteristics: Direct axis, open circuit and short circuit time constants. a) Direct axis and quadrature axis, saturated and unsaturated synchronous reactance. b) Negative phase sequence reactance.	For determination of specified parameters , we need to conduct Sudden short-circuit test. In our opinion this test is an detrimental test; hence we do not recommend this test. The same may be deleted. Calculated value of reactance's and time-constants will be furnished. If it is not acceptable, then alternatively for determination of specified parameters, we recommend to conduct Standstill Frequency Response test (SSFR test) as per IEEE-115 at standstill condition. Please review and confirm the same.	TS provision shall prevail. To be examined during detailed engineering based on good industry practices.
73		Clause 8.7.4.4	Type Tests : The following type tests of the equipment shall be carried out at site by the Contractor after successful commissioning of the generating units. The contractor shall submit the complete procedure, connection arrangement, instruments to be used at site for conduction if these tests and site requirements to the employer for approval for conductance of these tests on one unit to be decided by the employer. Type test shall fall under cat-1 (As per GTS): (c) Rated current, zero power factors lagging saturation curve (V curve) (d) Measurement of potier reactance. (v) Load angle measurement	These test are not practically feasible to perform at site. Therefore we do not recommend these test to be performed at site. Please review and confirm the same.	TS provision shall prevail. To be examined during detailed engineering based on good industry practices.
74			Further, type testing for 17 MW shall be performed at works if bought out from third party/or factory assembled.	We do not recommend to perform Type tests on 17 MW unit at works, because unnecessarily it takes lots of time for assembly and dis-assembly of all Generator parts. Also at works Type test is possible only, when all the items are ready before starting the assembly work. Sometimes the same is not feasible. So unnecessarily, there will be delay in Supply. Therefore We do not recommend to perform Type tests on 17 MW unit at works. Please review and confirm the same.	TS provision shall prevail. Type Test to be performed at works or site as per the supply of the equipment i.e Bought out or In-House. Applicability of list of Type Test shall be decided during detailed engineering based on good industry practices.
75		Schedule III Mandatory spares	1. Stator bars complete with insulation, insulation materials binding materials, winding etc.	For this small unit of 17 MW the offered generator is with global VPI insulation system in which chances of failure of stator winding is very less, so this spare coils is not required, kindly accept.	TS provision shall prevail.

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76			Schedule III Mandatory spares	10. Air cooler unit complete	For this small unit of 17 MW 1 number heat exchanger shall be provided, kindly accept.	Accepted	
77			Schedule III Mandatory spares	11. Oil coolers for bearings	For this small unit of 17 MW each bearing have 1 oil cooler in single piece so kindly confirm which bearing cooler is required as spare, kindly confirm.	Amended Schdele -III enclosed	
78	MQAP - Generator & associated auxiliaries		2.6	Trial Assembly of Sole Plates with Stator Frame	As sole plate and Stator frame have different delivery schedule, therefore trial assembly of these are not possible at works. Individual dimension checks are performed separately. Hence this clause may be deleted. Please review & confirm the same.	TS provisions are ample clear .Please refer last para below Clause 8.7.2	
79	MQAP - Generator & associated auxiliaries		L-9, 10	PD Monitoring System and Air gap Monitoring System	In clause L-9, 10 of MQAP-Generator & associated auxiliaries, PD Monitoring System and Air gap Monitoring System are specified. But in Generator technical specification, we have reviewed the Generator scope of supply, nowhere PD Monitoring System and Air gap Monitoring System are specified. Therefore please clarify whether PD Monitoring System and Air gap Monitoring System will be in Generator scope of supply or not. Also Please note that We do not recommend Air gap Monitoring System for the machine of this rating. Please review and confirm.	Accepted.	
80	MQAP - Generator & associated auxiliaries		P	Following part assemblies shall be subjected to the routine tests, proper fitment, alignment, dimensions and match - marked at the works of contractor	Most of part assemblies of generator are having different dispatch schedule, therefore trial assembly of these assemblies are not possible at works. Individual dimension checks are performed separately. Hence this clause may be reviewed and to be discussed after award of contract during detail design.	TS provisions are ample clear .Please refer last para below Clause 8.7.2	
81	MQAP - Generator & associated auxiliaries		C-3, D-2, H-3, A-2.1	Painting: Paint thickness, Paint adhesion test & Visual check.	Witness of Painting is time taking process which will lead to delay in dispatch schedule. Kindly review the clause and replace witness with verification and review.	TS provision shall prevail.	
Isolated Phase Busduct & Segregated Phase Busduct_ Chapter-10							
82	Chapter-10		Clause 10.4.3	Flexible bellows at the generator, transformer and associated equipment end shall be of insulating material and in between the whole lengths of the Bus-duct shall be metallic one. The metallic bellows shall be of the same material as that of the enclosure, its cross-section should be approximately equal to the cross-section of the enclosure and shall be capable of carrying the induced enclosure current. The metallic bellows shall also be capable of withstanding the specified pressure. The bellows shall be capable of accommodating the maximum expected expansion & contraction of the section of the enclosure.	Metallie below is applicable for IPBD only, it is not applicable for SPBD. Requirement of metallie below is depend upon the length of IPBD where its straight length is more than 20 meters. So please relook the requirement for SPBD and confirm the same.	Accepted	
83			Clause 10.7.3 (d)	Weather resistance tests	Weather resistance test is not applicable for busduct. Please confirm.	Accepted	
84	Schedule2 (IPBD & SPBD)		18	AIR PRESSURIZATION SYSTEM	WE SHALL PROVIDE HOT AIR BLOWING EQUIPMENT COMMON FOR ALL SIX UNITS AS PER CL-10.5.5 OF CHAPTER-10 (PAGE 17 OF 22). Please confirm.	Accepted	
85	Schedule2 (IPBD & SPBD)		8	EARTHING SWITCH SHORTING CUBICLE	SHORTING BAR ASSEMBLY SHALL BE PROVIDED AS PER CL-10.5.4 OF CHAPTER-10 (PAGE 16 OF 22). Please confirm.	Accepted	
Generator Transformers_ Chapter-11							
86			Clause 11.1.1.2 (i)	Complete set of rails including accessories and installation thereof at Site.	Kindly Confirm if Rails are required for all 17 Transformers. Also, please provide the Length of Rails required for each Transformer.	Rail is in Bidder Scope.Please refer TS & Tender Drawing for estimation	
87			Clause 11.3.1, Sno. 10.1	Max. winding hot spot temperature- 78 Deg. C. over year average ambient temperature of 32 Deg. C.	As per IEC 60076-2, yearly average temperature is 20 deg. C. instead of 32 Deg. C. So hot spot temperature shall be 78 Deg. C + 20 Deg. C. = 98 Deg. C. Kindly confirm	Accepted.	
88	Chapter-11	GENERATOR TRANSFORMERS	Clause 11.5.18	Insulating Oil	Kindly Confirm the Oil required for 31.5 MVA & 22 MVA Transformer (IS-335 or IEC:60296). Also, please note that Testing will be carried out as per the Standard of Oil supplied, ie, if Oil is supplied as per IS335, then Testing will be done as per IS335 only. Kindly Confirm.	Accepted. Oil testing shall be IS-335	
89					OFC based WTI is not recommended where distance between control system and WTI is less than 1 km. however requirement of " A separate sensing device of fiber optic type for measuring winding hot spot temperature in addition to winding temperature (WTI) shall be provided" is also mentioned at same clause . So the requirement at d) can be deleted. Please confirm.	TS provision shall prevail.	
90				Necessary Graveling of Generator Transformer soak pit shall be in the scope of employer in respect of supply, transportation and laying. Contractor shall supply the drawings indicating design requirement in respect of thickness, size & area of gravel to be laid in the pot head yard bench	Gravel for Generator transformer soak pit is not applicable as the transformer are installed at transformer caver (indoor). Please relook the requirement and confirm.	TS provision shall prevail.	
Auxiliaries Transformers_ Chapter-12							
91	Chapter-12	AUXILIARIES TRANSFORMERS	Clause 12.3.2 (A,B,C & D)	Losses as per ECBC Code for 250, 500, 630, 1000 & 2000 kVA Dry Type Transformer	Losses for these transformers as per ECBC are not feasible. Losses will be as per our standard practices. Losses will be provided in technical offer. Please confirm.	TS provision shall prevail.	
220kV XLPE Cables_ Chapter-13							

CLARIFICATION -1 (TECHNICAL)

92	CHAPTER-13	CHAPTER-13 : 220 kV XLPE CABLES		Seven (7) nos. - single-phase, 220-kV, 2000A, copper conductor, XLPE cables (including one spare cable of the longest length) for the interconnection of GIS to Pot Head yard-2, each run complete as per site condition, with all necessary auxiliary equipment and hardware. The tentative cumulative length of cable will be 3500 Meter.	Bidder understand that Specified cumulative length includes one spare run also. Any loose supply other than spare is not required by customer. Kindly confirm.	Accepted.	
93				Power House Cable Tunnel Plan & Section Dwg ref -> AFRY.5002.08.031 rev0	Since XLPE Cable erection through Cable tunnels is a complex task and involves placing of Cable on cable racks. It is requested to provide suitable lifting arrangement/pulley blocks along both the tunnel walls/ ceiling and suitable rail arrangement along the length of Tunnel floor for hooking to cable rollers.	Accepted.	
94			Clause 13.1.1.1.B)	Further, forced ventilation for above cable system shall be made for optimization of cable sizing from GIS to PHY-2 for heat dissipation if required.	Please provide maximum and minimum air velocity for CVT in m/sec. so that sizing of cable can be calculated.	Main supply duct in CVT have velocity of 11m/s as [er TS Clause 25.3.2.3 , However, CVT has natural circulation.	
Protection System (GIS & Pothead), Chapter-14							
95	CHAPTER-14	CHAPTER-14 : PROTECTION SYSTEM (GIS & POTHEAD YARD)	Clause14.1.1.1	Relay shall preferably be capable of sending/receiving inter tripping on OFC directly (IEEE C37.94). 1+1 scheme shall be implemented, where one channel shall preferably be on direct OFC between relays and other shall be through PLCC/DTPC/FOTE/MPLS-TP as the case may be and determined during detailed engineering. Direct OFC between nodes shall be in the scope of Employer.	Bidder request to describe the scope of PLCC and FOTE system to be considered in scope. As per drawing no. SJVN/ED/SDHEP/10, in POT HEAD yard there is no wave trap shown in layout and PLCC can not work without wave Trap. Kindly Clarify. Also please describe any scope of remote end terminals for both FOTE and PLCC.	It is clarified that PLCC not applicable. Scope of Bidder limited to PHY-1 & 2	
96			Clause14.1.1.1 (V)	220KV XLPE Cable Protection	High impedance cable differential protection relay shall be mounted on Line protection panel itself. Separate panel for 220KV XLPE cable not required. Kindly confirm.	Accepted	
97			Clause14.1.1.1 (IV)	Busbar Protection	We understand that Centralised Busbar protection is acceptable. Kindly confirm.	Accepted	
98			Clause 14.3.2, e)	Protection System for MV/LV and DG Set for entire project	Please clarify if protection for MV/LV and DG Set is required under this section as the same is covered under the respective equipment/system.	Protection of MV/LV and DG set to be considered in Protection system. Please refer TS clause 14.1.1.1 VI)	
99			Clause 14.3.2, a)	Group B: Generator differential(87G)	Instead of another Generator Differential Protection in Group B (one Generator Differential Protection Function is already mentioned under Group A), Inter-turn protection for the Generator is recommended under Group B. Overall differential Protection Function under Group B will cover the faults in the generator windings.	TS provision shall prevail.	
100			Clause 14.11.2	Recommended spare parts	Any recommended spare not applicable. Mandatory spare shall be offered as per Schedule-III. Kindly confirm.	Accepted	
101			SCHEDULE OF MAND. SPARES	a) SI. No. 3 - Indicating Lamps b) SI. No. 4 - Connectors c) SI. No. 7 - Aux. DC Supply Unit	a) Indicating lamps not applicable for offered protection panels. b) Connectors not applicable for offered protection panels. c) Aux. DC Supply Unit not applicable for offered Protection panel. DC supervision relay shall be considered against SI. No. 2 of the Schedule-III.	Schedule-III amended and enclosed.	
Control & Monitoring System _Chapter-15							
102			Clause 15.4.12.5	The Dam site and TRT shall be linked to the Power Station through Optical Fibre Cable. Approach cable including termination, fiber distribution box, light interface units etc. at Dam/TRT and Power house shall be provided by the contractor.	Kindly inform us the mode of laying of OFC from Power House to DAM area, whether it is underground or overhead? If it is overhead, kindly inform us whether pole and other accessories etc. shall be in bidder scope or Customer scope? Kindly confirm acceptance.	OFC shall be laid in the cable trench	
103			Clause 15.1.1.1/vi, 15.4.2/ Point no. 13.	One (1) set of router/gateway with necessary firewall functionality for communication between power house LAN and central control room LAN/ SJVN Corporate office. Monitoring from Corporate Control Room or a remote control centre (Control function as future extension).	1) We understand that the communication media between Power house and central control room LAN/ SJVN Corporate office shall be provided by the customer. Please confirm. 2) Provide the details of communication media between power house LAN and central control room LAN/ SJVN Corporate office.	Scope is in Employer scope and media will be OPGW	
104			Clause 15.1.1.2, i	Operator Workstations (OWS)	There are 4 nos. of OWS shown in the CMS sheet 1 of 2 diagram. Please confirm the exact requirement Is SCADA software also required or only the PC hardware?	2 no. of OWS consisting of 4 no.s of monitors SCADA software is required	
105			Clause 15.1.1.1/vii	One (1) set of router/gateway with necessary firewall functionality for interface to NRLDC (main & backup).	Provide the details of communication media between power house and NRLDC	Communication media is OPGW provided by employer	
106			Clause 15.4.3.4.	The networks shall be configured using redundancy of servers, routers and switches, in dual star switched Ethernet topology with dual homed mesh redundancy.	We understand that bidder can propose dual Star or Ring control network topology as per their proven design. Please confirm.	Accepted	
107			Clause 15.4.2	Fault location:	Please clarify/elaborate the exact requirement.	TS provision shall prevail.	
108			Clause 15.4.4.4.	Temperature Measurement	The RTDs shall be wired to temperature scanners with local display, which in turn shall be interfaced with the UCB for remote logging and display, as per the common industry practice	Accepted	
109			Clause 15.4.3.5/2nd para.	For computers / HMI related equipments, redundant 415V AC, three phase supply shall be provided from inverters derived from 220V DC system.	415V AC, three phase supply is not required for computers / HMI related equipments. Hence the same is not applicable. 230V AC single phase shall be derived from 220V DC System for computers / HMI related equipments. Please confirm.	Accepted	

CLARIFICATION -1 (TECHNICAL)

GIS_Chapter16						
110			Clause 16.1.2	i) Insulation co-ordination study on proven software as per good industry practice.	As per GTS clause 1.2.2, insulation coordination study shall be performed by the employer, which is contradicting the requirement in chapter 16 of GIS. Further please be inform you that insulation coordination study is performed for the complete plant equipment's which includes generator, busduct, GT and its associated interconnection with the GIS and line parameter, so individually insulation coordination study for GIS can not be performed. Please clarify and confirm.	TS provision shall prevail.
111			Clause 16.4.1	The GIS assembly shall consist of completely separate pressurized sections in order to de-pressurize one gas compartment for inspection, maintenance or in case of necessary repairs.	Please be informed that as per IEC 62271-203 [ed2.0]b. 2011-09, also OEM recommendation whenever there is a work ongoing in a compartment barrier the adjacent compartment shall be de-pressurized and will not be in service (no live condition). During removal of Bus DS or bus DS/ES compartment of faulty feeder, adjacent one feeder shall be in shut down condition, for short duration (16-18 hrs.) and later can be taken into service condition. Please relook the requirement and confirm.	TS provision shall prevail.
112	Chapter 16: GIS		Clause 16.4.17.3 1.2.2	Insulation Co-ordination 1.2.2 Insulation Coordination Study SJVN will share the report of System Study carried out at its end (through third party) with the Successful Bidder. The Successful Bidder shall validate the values/ parameters/ Insulation coordination etc. of the report. In case of any difference in the values, the Successful Bidder shall submit his findings for approval of Purchaser, before proceeding ahead with any design activity of the equipment. Final responsibility of the operational performance of the equipment shall lie with the Contractor only	As per GTS clause 1.2.2, insulation coordination study shall be performed by the employer, which is contradicting the requirement in chapter 16 of GIS. Please confirm the requirement.	TS provision shall prevail.
113			Clause 16.4.18.3	After tripping of circuit breaker, operation of the respective isolator control switch to open will first initiate rapid closure of the associated high-speed grounding switch. When this grounding switch is signaled to close by its auxiliary switches, an adjustable time delay relay will start to allow time for any trapped charges to dissipate into the grounding network. At the conclusion of the time delay, the isolator operating motor operating mechanism will be energized to open the isolator. Operation of the isolator control switch to close will close the isolator, which when proved closed, will signal the high-speed grounding switch to open.	Please be informed that as per standards disconnector are combined with earthing switch, three position type with inherent mechanical interlocking feature such that earthing switch cannot be closed with disconnector in close condition. Further During circuit breaker maintenance circuit breaker is opened/tripped and thereafter disconnector at line side of GCB can be opened safely, since there is no load current flowing. Line side high speed earth switch shall be closed after taking line deenergized feedback from AIS VT/CVT and also taking feedback of open line disconnector, and shall be interlocked accordingly. Please relook the requirement and confirm.	TS provision shall prevail. However, to be examined during detailed engineering as per good industry practices.
LV, MV Cable and Cable Trays, Chapter-18						
114			Clause 18.1.1.1	I. Power Cables: i. One (1) lot of 22KV XLPE, Aluminium conductor, unarmoured power cable (Medium voltage cable) as per SLD drg of HT system.	Kindly inform us the mode of Transmission from 22KV Board at GIS Floor to 22KV Board at DAM. Whether it is through cable or overhead line?	Cable connection from 22kV board at Dam to 220kV board at GIS.
115			Clause 18.1.1.1	I. Power Cables: vi. One (1) lot of power cables from EM panels to third party interface such as Hydro-mechanical equipment, civil infra equipment (ejctor, water purification plant etc.) Load list of third-party equipment shall be as per Annexure-I of this section.	For better clarity of scope and to avoid co-ordination issue, it is suggested that procurement of cabling system for HM equipment & civil infra equipment shall be kept separately and not to be included in this EM package. Kindly confirm acceptance.	TS provision shall prevail.
116			General		any major change in cable sizes on account of changes in Feeder/ACB/MCCB/kVA rating of equipment/items of HM equipments & civil infra equipment during detailed engineering of respective packages at a later stage, shall have price implication. Kindly confirm acceptance.	Accepted
117			Clause 18.1.1.2	II. One (1) Lot of 600/1000 Volt, Copper conductor, Instrumentation cables for connection of various field equipments like RTDs, thermocouple cables (4-20mA, 2-10V signals) etc. to control panels.	We understand that Instrumentation cable (pair cables) shall be of 0.5 sq. mm and RTDs cable shall be of 1.5 sq. mm. Kindly confirm acceptance.	Accepted
DC System, Chapter-19						
118			Clause 19.1.1.1 (vi)	vi. One no. 100 KVA UPS Inverters complete with all accessories, including static switches, voltmeter, ammeters, relays, MCCBs, etc. required to complete the scheme, along with its distribution board as per tender drawing of UPS Inverter for complete power house/Transformer hall.	In clause 19.1.1.1(vi), 1no. inverter is mentioned but in SLD DGR. NO. SJVN/ED/SDHEP/EM/14 titled "Single Line Diagram for inverter-100kVA (At power House)" 2nos. inverter are shown. Therefore quantity requirement (in nos.) is 1 OR 2? Please clarify.	TS Shall prevails and drawing has been updated.
119	Chapter-19	CHAPTER-19 : DC SYSTEM	Clause 19.4.6.1 A). iii. A & 19.4.6.1 B). v. a.	The tentative no. of outgoing feeders and type (MCCB plug in type) for Main and Sub DCDBs has been indicated in tender SLD.	Outgoing feeder for DCDB shall be either MCCB or MCB as per load requirement of individual feeders and it shall not be plugin type. Please confirm. Further please be inform you that, DCDB size shall be more and it require more space in power house if all outgoing feeders with MCCB has to be considered. Please relook and confirm as it will take more space.	Outgoing feeder for DCDB shall be either MCCB or MCB as per load requirement of individual feeder and MCCB shall be plugin type.
120			Clause 19.4.6.1 A). iii. c. & 19.4.6.1 B). v. c.	Bus Coupler Breaker (between two sections of DCDB - motorized MCCB (plug in type), rated as per tender SLD.	Motorised MCCB plug in type is not applicable for DC system. As per EM recommendation, DCDB shall be with fixed MCCB only as DC system is the main system of the power plant so tripping of MCCB shall not envisage in any case. Please relook and confirm.	TS provision shall prevail.
MV System, Chapter-21						
121	Chapter-21	MV System	Clause 21.4.2.8	Transformer Charging Circuit Breaking Capacity	Not applicable for MV switchgear of Sumi HEP as it is not connected with the generation units. Please confirm	Accepted
122			Clause 21.4.2.9	Shunt Capacitor Switching Capacity	Not applicable for MV switchgear of Sumi HEP as it is not connected with the generation units. Please confirm	Accepted
ILLUMINATION SYSTEM, Chapter-22						
123			Clause 22.1.1.1.1	Indoor lighting system : One lot of normal lighting indoor system-----MAT, CAT, CVT, ventilation room----- Dam control building, Dam galleries (inspection, instrumentation, foundation etc.) , TRT building, CW & FF pump house , access to surge chamber -----from lighting panel to lighting fixtures.	Please provide drawing and details of Dam control building, Dam galleries, TRT building, CW & FF pump house.	Please refer GAD drawing no. AFRY.5002.00.001
124			Clause 22.1.1.3	Fixed wall mounted sockets of 3 phase, 5 pin, 63A & 32 A, in each floor of power house, busduct galleries, intake area.	Following type of power sockets shall be provided : i) 240V, 20A industrial receptacle in power house area. ii) 240V, 5/15A receptacle in control room iii) 415 V, 63 A receptacle in power house area, busduct galleries, transformer hall etc.	TS provision shall prevail.

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125			Clause 22.1.1.4	vi) Five no power plug consisting of----- with braided sheath.	We understand that 5 no. portable power plug each with one socket of 5/15 A and one 5 pin power plug of 32A is required. Kindly note that sufficient no. of power plugs as mentioned in S. no 2 above shall be provided. No portable power plugs are envisaged.	Accepted		
126			Clause 22.3.3	Normal lighting in each functional area-----intensity. Smart switches/ sensors-----light in the area.	Occupancy sensors shall be provided for this purpose in control room.	Accepted		
127			Clause 22.4.2	Distribution board : The boards shall be of wall mounted type-----screwed conduit.	Lighting distribution board shall be of floor mounted type and shall be kept on floor opening or cable trench.	TS provision shall prevail.		
128	Chapter-22	CHAPTER-22 : ILLUMINATION SYSTEM	Clause 22.4.3	Lighting panels : Each three phase 415 V----- at the stage of detailed engineering.	Incomer to AC lighting panel shall be TP MCB and outgoing shall be SP MCB.	Accepted		
129			Clause 22.4.3	Panels shall be fitted with phase separation barriers-----out going circuits.	Lighting panel shall have adequate space for bottom cable entry.	Accepted		
130			Clause 22.5.2	The wires shall be-----2.5 / 4 sq.mm as per requirement.	Lighting wire shall be 1.5 sq.mm Cu wire from JB to fixture and 2.5 sq.mm Cu wire for LP to JB. For receptacle circuit 4.0 sq.mm Cu wire shall be used.	TS provision shall prevail.		
131			Clause 22.5.10	The poles shall be -----stepped or swaged -----junction box etc.	Octagonal poles may please be allowed.	Accepted		
132			22.1.1.5	Co-ordination and-----SCADA system.	Lighting fixtures can be controlled from lighting panels. Co-ordination and Integration with plant SCADA system is not envisaged.	Accepted		
133			Clause 22.1	SCOPE OF WORK	Please provide details of plant road, road layout , road length and width to be considered for road lighting.	Please refer TS clause 22.1.1.1.2		
EOT Cranes-Chapter23								
134				Clause 23.1	The component/Equipment/system shall be design for Useful life of 40Years	Specification requirement is not clear. Please note that cranes shall be designed as per IS:3177, IS:807 & IS:800. Cranes are classified into four class M3, M5, M7 & M8. Being maintenance cranes, EOT cranes for Hydro projects shall be designed considering M3 duty cranes inline with clause no. 23.4.1 of tender specification. Please confirm.	Accepted	
135				Clause 23.1 (B)	50T/10T EOT Crane for Transformer Hall- operator cabin	RRC and pendent provided for the crane will suffice operation of crane. Requirement of cabin is not necessary. Please confirm.	TS provision shall prevail.	
136			Clause 23.1 (D)	D) Control, monitoring and related items and services- Co-ordination and provision of necessary contacts and / or port for integration with plant SCADA system.	Cranes are to be operated locally. SCADA system is generally used for systems/packages operating remotely. Hence, for crane same is not applicable.	Accepted		
137	Chapter-23	CHAPTER-23: EOT CRANES	Clause 23.3.1.1		Please note that the Long travel/ position of End Stopper of PH EOT towards control block shall be restricted till the 2nd column from CAT end.	TS provision shall prevail. However, detailing to be done during detailed engineering.		
138			Clause 23.4.2	EOT crane operation shall be achieved through Programmable Logic Controller (PLC) with starter of all motors by VVVF Drive	For cabin operated cranes, master controller with desk is there. Additionally, RRC and pendent push buttons are available. Hence, no other control device like PLC with starter is being envisaged for EOT crane.	Accepted		
139			Clause 23.4.9.4	The brakes for various motion drives shall be as per the FEM standards.	Cranes shall be designed as per IS 3177 inline with clause no. 23.4.1 of tender specification. Please confirm.	Accepted		
140				B) Transformer Hall and GIS Cavern The EOT crane shall be designed for the following parameters/duties. A. Capacity (in Tonnes) Main 50 T Monorail 10T	Bidder understand that 10 T Capacity EOT Crane shall be single girder type and shall be used only for 220 kV GIS equipments that shall move over GIS area only. Please confirm.	Accepted		
Fire-Fighting System_Chapter-24								
141	CH-24 CH-03	CHAPTER-24: FIRE FIGHTING SYSTEM	Clause 24.1.1.1, B., vii) 3.1.1, B), i)	One lot of level switches, drainage, overflow etc. for all the FF tanks tentative location at El 710m - 730 m. Two nos. of pump-motor system along with associated accessories for filling of FF/CW tank tentative located at EL 697.20m.	Please confirm the tank elevation for designing the FF pumps' head.	The FF Tank elevation is to be considered as EL. 720 m.		

CLARIFICATION -1 (TECHNICAL)

Ventilation & AC System_Chapter25						
142	Chapter-25	CHAPTER-25: VENTILATION & AC SYSTEM	Clause 25.1.1.1	Main equipments & auxiliaries i) Three sets (03) of ventilation blowers (2W+1S) each of capacity 50% of the total required air for Power house. ii) Two Sets (02), ventilation blowers (1W+1S) each of capacity 100% of the total required air for Transformer hall.	It is understood that dry ventilation is required in power house and Transformer hall. Please confirm.	Accepted
143			Clause 25.1.1.1	Main equipment & auxiliaries i) Three sets (03) of ventilation blowers (2W+1S) each of capacity 50% of the total required air for Power house. ii) Two Sets (02), ventilation blowers (1W+1S) each of capacity 100% of the total required air for Transformer hall. v) One (1) lot of Exhaust blower / Exhaust fan system, axial fan system for removal of foul air through exhaust ducts / natural ducts from Power house, Transformer hall, GIS hall area. Requirement of exhaust system shall be determined during detailed engineering based on the layout condition. Above Exhaust system shall include general / open area, specific requirement from battery rooms, DG room, Toilets, Kitchens etc.	Location of Supply and Exhaust blowers for power house and transformer cavern is not found in the specification. SJVN is requested to specify same.	Exhaust system shall be designed considering MAT/CAT in Power House Cavern and MAT/CVT of Transformer Cavern and guided exhaust duct shall be outside the MAT/CVT.
144			Clause 25.1.1.1 viii)	One (1) Nos. portable instrument for checking of air quality in the power house complex completed with all accessories.	Portable type Temperature cum humidity indicator shall be provided for power house complex. Please review and accept.	TS provision shall prevail.
145			Clause 25.1.1.1	Main equipments & auxiliaries	Please confirm the type of system to be considered for the PH Exhaust, Transformer Hall Exhaust & GIS Hall exhaust. As per the description & configuration of the equipment's and the scheme, fresh air for the PH cavern have been routed through MAT while for the TH cavern have been routed through CAT. Provision for routing of Exhaust from both Caverns needs to be clarified. Layout constraints needs to be reviewed and nichness to be confirmed for routing the supply air ducts at both (Upstream & Downstream) end of powerhouse cavern to be provided.	Exhaust system shall be designed considering MAT/CAT in Power House Cavern and MAT/CVT of Transformer Cavern and guided exhaust duct shall be outside the MAT/CVT.
146			Special Instructions: The complete ventilation system to be designed on the proven software by the contractor including simulation of air flow through the duct/louver in each place of power house complex. Simulated results of each duct/louver will be verified during execution.	Ventilation System shall be designed as per applicable standards and industry practices using relevant softwares available in the market. Further, air flow simulation shall be carried out during designing of the system as per availability of software with the supplier. However, air flow through the duct shall be measured at site after installation without exception.	The rate of air flow through duct/louver shall be established during execution vis-a-vis to design parameter/simulation in software.	
147			Clause 25.3.2.3	Maximum air velocities in ducts In main ducts 11 m/s In branch ducts 8 m/s	Velocity in main duct shall be 12 m/s. (max.) for main duct, 9.0 M/s. (max.) for branch duct may please be permitted in line with ISHARE/ASHARE guideline. Kindly accept and confirm the same.	Accepted
148			Clause 25.5.2	Splitters and Dampers 1. Splitters and dampers shall be made of 18 gauge GSS of quadrant type. 2. Motorized fire dampers or fire doors shall be provided in main ventilation blower and each ventilation zone.	Availability of 18 gauge GSS Splitters and dampers in market is limited. It is requested to accept 22 gauge GSS Splitters and dampers. Fire dampers which shall be provided in ventilation ducting shall be of 90 minutes fire rating. Kindly accept the same.	TS provision shall prevail.
149			Clause 25.1	Ventilation duct layout shall be finalized within six (06) months from the date of LoA.	Ventilation duct layout are prepared after receiving inputs (layouts, heat load etc.) from various agencies. It is not feasible to prepare ventilation duct layout within six (06) months from the date of LoA of the project. Customer is requested to remove this tender requirement OR allow us to finalize the Ventilation duct layout within Three(03) months from the placement of order to HVAC vendor.	Ventilation duct layout shall be finalized within Ten (10) months from the date of LoA.
150			GENERAL	Inside Design condition:	Inside design condition for AC and Ventilation is not found in the specification. We are proposing following inside condition. AC System: (Catered by split AC): The system shall be designed to maintain a inside temperature of 24±1 °C. Kindly note that control rooms where split AC's (ductable / non-ductable), relative humidity control cannot be done as these machine fixed flow machines. Further, Fresh air arrangement can not be provided where split AC's (ductable / non-ductable) / Cassette AC are envisaged. Ventilation System: (Blower/Axial fans): Since, dry type Ventilation system is envisaged in the specification, the inside temperature shall be 5°C higher than the summer ambient temperature (DB) i.e. 45 Deg C (Maximum ambient in Summer as specification is 40 Deg C). Please review and accept our proposal.	The System to be designed as per the provisions of TS. However, proposal of bidder shall be examined during detailing engineering for fine-tuning.
DG Sets_Chapter27						
151			Clause 27.3.1 iii	Ingress Protection Weather Proof (IP 52)	It shall be weather proof only. IP 52 shall not applicable as there shall be louver required for fresh air entry to DG set. So IP protection will not applicable for acoustic enclosure. Kindly accept and confirm.	TS provision shall prevail. However, to be discussed during detailed engineering as per Good Industry practices.
152			Clause 27.4.4	The diesel generator shall have a separate engine instrument panel. The panel shall be mounted on the framework of the generating set and shall contain: i. Oil pressure gauge, ii. Water temperature gauge, iii. Oil temperature gauge.	Lube oil pressure gauge, water temperature gauge and oil temperature gauge panel shall not be available on DG set, as these are not available with any reputed DG manufacturer. All these parameters shall be measured through the suitable sensor which will be connected with the DG controller. Please confirm.	Accepted
153			Clause 27.5.1 v	Louvers and outside air grilles for the inlet and outlet air shall be provided and installed by the Contractor. The louvers shall open when the engine starts and stay open during the running time of the engine.	Louvers shall be part of acoustic enclosure and these are fixed type. Please confirm.	Accepted
154			Clause 27.5.1 viii	Air core reactor shall be connected in the generator neutral point to earth to neutralize the zero sequence current from the generator in case of parallel operation with the network.	This requirement for diesel generator is not understood. Please elaborate the requirement.	Earthing of DG Set while operating in parallel shall be ensured as per the Good Industry Practices.
Security & Surveillance System_Chapter-28						
155	CHAPTER-28	SECURITY & SURVEILLANCE SYSTEM	Clause 28.4.2.1 & 28.4.2.3	Image Device : 50" CCD sensor	CCD sensor are not available with reputed manufacturer. CCTV camera shall be with CMOS sensor as these are latest technology. Please confirm.	TS provision shall prevail.
156			Clause 28.4.2.1 & 28.4.2.3	Weatherproof Housing: IP66, vandal proof with heaters and blowers.	As per latest technology CCTV camera are available with CMOS sensor which does not required any heater and blower. Please confirm.	TS provision shall prevail.
PA & Communication System_Chapter-29						

CLARIFICATION -1 (TECHNICAL)

157			Clause 29.5.1	Public address system	No. of loudspeakers and field handsets have not been mentioned. Kindly provide the same.	25 no. of loudspeaker & 15 no. of field handset	
158	Chapter-29	CHAPTER-29 : PA & COMMUNICATION SYSTEM	Clause 29.1.1.3 and 29.5.3.1	Conferencing system	There is an ambiguity related to the number of delegate units for the conferencing system. In clause 29.1.1.3 it is mentioned as 50 and in 29.5.3.1 it is mentioned as 20. Kindly clarify the same. As per layout conferencing hall area is very less, accommodation of 50 delegate units is not possible. Requirement shall be inline with the available space. Please confirm. Requirement is not matching with the clause 29.1.1.3. and it contradict statement in TS. Please clarify the actual requirement.	20 no. of delegate chairs	
159			Clause 29.1.1.4	Miscellaneous Items	Please clarify in whose scope is the OFC for integration of all zones of PA & communication system between Dam and Power house. If it is our scope, kindly specify the type, distance, method of laying etc. for preparation of offer.	OFC is in scope of bidder, Type- Multimode/Single mode/approximately 1000 meter/through cable trench/cable raceway based on the system engineering proposed by the bidder.	
160			Clause 29.5.1.2, i	Two (2) dynamic microphones	All reputed supplier having MCS system with one dynamic mic only. Please confirm.	TS provision shall prevail.	
General							
161	General			Editable version of GTPs	Kindly arrange to share the editable GTP's and tender drawings in auto-cad format	GTPs and Tender Drawing in Auto Cad Format attached	
162				Schedule 1 GTP	Kindly arrange to share the schedule-1 (GTP).	Please refer Schedule 1, 2, 3 & 4 of bid documents.	
163				Seismic Coefficient	Seismic Coefficient in Horizontal and Vertical direction may also be furnished for considering in mechanical design	Please refer GTS Clauses 1.1.4	
164	General/Generators			Water analysis report	Please furnish water analysis report for design of air and oil coolers	Please refer the GTS clause 1.3 and Annexure-VI of GTS	
Layout							
165	POWER HOUSE LAYOUT PLAN SERVICE BAY/ MACHINE HALL FLOOR AT AT E.L. 649.50 AND TRANSFORMER HALL AT E.L. 677.00			DRG. NO. SJVN/ED/SDHEP/EM/05	Please note that approx 1500mm width and 3500 mm height shall be required for laying of 220kV XLPE for incoming and outgoing line on CVT, so D shaped CVT having dimension 6500mm width and height 6500mm shall not be sufficient to lay total 14 runs of 220kV XLPE cable. Further there shall be Fire fighting piping, cooling water piping, LV & MV cable, HVAC duct and illumination equipment's shall be mount on the CVT.	Fine-tuning/detailing shall be finalized during detailed Engineering based on the system requirement as proposed by XLPE Suppliers/vendors.	
166	POWER HOUSE LAYOUT PLAN SERVICE BAY/ MACHINE HALL FLOOR AT AT E.L. 649.50 AND TRANSFORMER HALL AT E.L. 677.00			DRG. NO. SJVN/ED/SDHEP/EM/05	10000mm width of GIS Door EL. 689.00mtrs. is very less to install 220kV XLPE cable, LV & MV cable, SST, 22kV MV board, SSB GIS. Further routing of cable and O&M of all equipment's in this area is very difficult. kindly relook the dimension and amend the drawing accordingly.	Fine-tuning/detailing shall be finalized during detailed Engineering based on the system requirement as proposed by GIS Suppliers/vendors.	
167	POWER HOUSE LAYOUT PLAN SERVICE BAY/ MACHINE HALL FLOOR AT AT E.L. 649.50 AND TRANSFORMER HALL AT E.L. 677.00			DRG. NO. SJVN/ED/SDHEP/EM/05	Space availability for battery bank in power house layout is not sufficient. Further DCDB has been shown in battery bank room which is also not advisable as batteries are Plante type.	Fine-tuning/detailing shall be finalized during detailed Engineering based on the system requirement as proposed by Battery Suppliers/vendors.	
168	POWER HOUSE LAYOUT PLAN SERVICE BAY/ MACHINE HALL FLOOR AT AT E.L. 649.50 AND TRANSFORMER HALL AT E.L. 677.00			DRG. NO. SJVN/ED/SDHEP/EM/05	Bus duct gallery size is not sufficient for operation & maintenance work for LAVT, NG cubicle, SAT, ET, UAT etc. Please relook the power house layout. Also there shall be NSPBD/sandwich duct shall be routed from UAT's & SSB to the respective UAB which is also very difficult for laying & routing the duct with such very compact power house layout, further it also create O&M issue for long run of power house.	Fine-tuning/detailing of layout shall be finalized during detailed Engineering based on the system requirement considering the equipment's General Arrangement.	
169	POWER HOUSE LAYOUT PLAN SERVICE BAY/ MACHINE HALL FLOOR AT AT E.L. 649.50 AND TRANSFORMER HALL AT E.L. 677.00			DRG. NO. SJVN/ED/SDHEP/EM/05	1. Please clarify where is the unloading area of transformer as space available in layout is very less. 2. Please clarify GIS crane hook approach if the same crane shall be used for transformer unloading. 3. CVT opening is at GIS crane position, how the 220kV XLPE cable, MV, LV, control cable, CWS piping, fire fighting piping, VAC duct shall be routed for GIS & Transformer hall. 4. DT gate are also operating at transformer hall, how the transformer shall be move on rail as there is only 5000mm width is available for movement.	Provision of TS and Tender drawing are ample. Any fine-tuning/detailing shall be finalized during detailed Engineering based on the system requirement considering the equipment's General Arrangement.	
Techno-Commercial Document/IFB							
170		Page 3 of 15 Page 105-113	Completion Period (Months) Time Schedule	43 months Time to complete the facilities is as follows from the effective dates: - First (1st) Unit commissioning (73MW) : 40.5 months Second (2nd) Unit commissioning(73MW) : 41 months Third (3rd) Unit commissioning (73MW) : 41.5 months Fourth (4th) Unit commissioning (73MW) : 42 months Fifth (5th) Unit commissioning (73MW) : 42.5 months Sixth (6th) Unit commissioning (17MW) : 43 months Note: First Unit means any unit of 73 MW and Second Unit means second of 73 MW and so on. No alternative time schedule is acceptable.	There is possibility of Land slides and blockade on highway and other approach roads during winter seasons. Also considering the cycle of model test, design, engineering, procurement, manufacturing and E&C , We request SJVN to kindly review and increase the time span of project completion from 43 months to at least 60 months. Please confirm.		
171		Page 3 of 15 Page 105-113	Completion Period (Months) Time Schedule	43 months Time to complete the facilities is as follows from the effective dates: - First (1st) Unit commissioning (73MW) : 40.5 months Second (2nd) Unit commissioning(73MW) : 41 months Third (3rd) Unit commissioning (73MW) : 41.5 months Fourth (4th) Unit commissioning (73MW) : 42 months Fifth (5th) Unit commissioning (73MW) : 42.5 months Sixth (6th) Unit commissioning (17MW) : 43 months Note: First Unit means any unit of 73 MW and Second Unit means second of 73 MW and so on. No alternative time schedule is acceptable.	There is possibility of Land slides and blockade on highway and other approach roads during winter seasons. Also considering the cycle of model test, design, engineering, procurement, manufacturing and E&C , We request SJVN to kindly review and increase the time span of project completion from 43 months to at least 60 months. Please confirm.		
172		Page 13 of 15		Logistic Route Survey – Bidder's responsibility	We propose to exclude the following works from bidder's responsibility: 1. Handling of electric and telecom poles 2. Civil works like filling, temporary arrangement on bridge / culvert etc... Kindly confirm.	TS Provision shall prevails and please refer IFB Clause no. 8.0 & GTS Clause no. 1.1.6	
173		Page 14 of 15		Land	We understand that SJVNL shall provide levelled land for bidder's infrastructure works (labour camp, site office, etc...), storage and construction facilities (workshop, etc...). Please confirm.	TS Provision shall prevails and please refer IFB Clause no. 10.0	

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174	Page 14 of 15	Water	We understand that water (drinking, daily need) shall be made available (without charges) to the contractor at one point from where the further distribution is the scope of contractor. Please review and confirm.	TS Provision shall prevail and please refer IFB Clause no. 11	
175	Page 14 of 15	Construction Power	We understand that construction power (for camp, storage, site office, etc.) on chargeable basis shall be made available to the contractor at one point from where the further distribution is the scope of contractor. Please review and confirm.	TS Provision shall prevail and please refer IFB Clause no. 12 & GTS Clause no. 1.8.10	
176	Page 13 of 15	Transportation Route	Transportation of equipment at Project site area	We request employer to extend all help during transportation of equipment in the project area by providing dozers, pullers from civil agency free of cost, if required. Please confirm.	TS Provision shall prevail and please refer IFB Clause no. 7.0 & GTS Clause no. 1.1.5 & 1.1.6
177	Page 14 of 15	OTHER LOGISTIC INFRASTRUCTURE	The Contractor shall establish facilities such as Site Office, Storage facility (Covered & Stockyard etc), Contractors Camp/Colony, Sanitation, Wireless communication system, internet facilities for smooth and effective monitoring & execution of EM work at site at his own Cost.	Facilities shall be created at site during project execution however, levelled land required for the same shall be provided by SJVN to Bidder free of cost. Please confirm.	TS Provision shall prevail and please refer IFB Clause no. 9.0 & GTS Clause no. 1.17
178	Page 14 of 15	Water	It is expressly understood that water supplies, sanitation etc. shall be arranged by contractor at his own cost.	SJVN is requested to provide Domestic and Construction water (i.e. drinking water and water for hydro test of component like Spiral casing and embedded pipelines etc.) free of cost. Please confirm.	TS Provision shall prevail and please refer IFB Clause no. 11
179	Page 14 of 15	TEMPORARY POWER AND LIGHTING	The work relating to all temporary lighting and power facilities required for the installation work shall be carried out by the Contractor under this contract and shall be included by the Contractors in their offer.	Temporary lighting for installation work shall be carried by bidder related to their work area. However, overall temporary lighting of complete power house during construction is responsibility of owner/civil agency. Please confirm.	TS Provision shall prevail and please refer IFB Clause no. 13.0 and GTS Clause 1.8.11
180	Page 15 of 15	Civil Works	However, the Contractor shall provide design data for foundations and install the inserts/embedment; support steels and/or components for foundation/supports purpose, shall perform minor civil work such as any chipping / levelling works, denting / painting etc. & Civil Works of Pole lighting of Illumination Section.	We request employer to delete civil works from the scope of E&M works. Bidder shall provide cabling for the equipment in its scope only. Any other requirement pertaining to third party /owner's equipment shall be carried out by other parties. In case, any help is required for interface assistance shall be given, however responsibility for the same shall lie with concerned party. Please confirm	TS Provision shall prevail and please refer IFB Clause no. 15.0
181	Page 15 of 15	Earthing Works	Employer shall be responsible for laying for Earthing Grid/Mat including provision of Risers in all floors, Yard of Power House area (Power House, PHY and TRT), Dam area, FF & CW tanks etc. Contractor shall design and provide Two (02) no Earthing terminals for each equipment (whose earthing is compulsory as per regulation, technical requirement or/and safety requirement) of these specifications. Contractor shall be responsible for connecting all EM equipment under this package of earthing terminals to Risers of Earthing Grid/Mat.	Being E&M contractor, it will not be feasible for us to do any kind of civil work. However, we shall intimate SJVN about the required civil works needed for installation of E&M equipment in PH. Such civil works may kindly be executed by SJVN through already deputed civil agency at their end. Besides, "Employer shall be responsible for laying for Earthing Grid/Mat including provision of Risers in all floors, Yard of Power House area (Power House, PHY-1 & PHY-2 and TRT), Dam area, FF & CW tanks etc" Contractor scope is only design and connecting the earthing terminals of EM equipment to risers of earthing mat. Accordingly, we understand that no civil work related to earthing work is in scope of E&M Contractor. Please confirm.	TS Provision shall prevail and please refer IFB Clause no. 17.0
182	Page 39 of 48	Adjustment Factor for Bid Evaluation	EvaluationAnd Comparison Of Bids: Adjustment Factor for Bid Evaluation A) Weighted Average Efficiency of Turbine & Generator : Against 73 MW Unit - 7,50,000/- per unit for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidderin their bid. Against 17 MW Unit - 1,50,000/- per unit for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder their bid. Transformer Losses : INR 1,75,000/- per transformer (for total losses = no load losses+ load losses + auxiliary losses) for each KW by which the Transformer losses quoted by the bidder exceeds over the least amount of losses quoted in one of the responsive bids.	The proposed adjustment factor during bid-evaluation stage is very much on the higher side . Hence, it is requested to please review and amend the same as per details below. A) Weighted Average Efficiency of Turbine & Generator : Against 73 MW Unit- INR 4,00,000 per turbine for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder Against 17 MW Unit - INR 1,00,000 per turbine for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder C) Transformer Losses : Normally not considered for evaluation so please delete this accordingly.	TS Provision shall prevail.
183	Page 39 of 48	Adjustment Factor for Bid Evaluation	EvaluationAnd Comparison Of Bids: Adjustment Factor for Bid Evaluation A) Weighted Average Efficiency of Turbine & Generator : Against 73 MW Unit - 7,50,000/- per unit for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidderin their bid. Against 17 MW Unit - 1,50,000/- per unit for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder their bid. Transformer Losses : INR 1,75,000/- per transformer (for total losses = no load losses+ load losses + auxiliary losses) for each KW by which the Transformer losses quoted by the bidder exceeds over the least amount of losses quoted in one of the responsive bids.	The proposed adjustment factor during bid-evaluation stage is very much on the higher side . Hence, it is requested to please review and amend the same as per details below. A) Weighted Average Efficiency of Turbine & Generator : Against 73 MW Unit- INR 4,00,000 per turbine for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder Against 17 MW Unit - INR 1,00,000 per turbine for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder C) Transformer Losses : Normally not considered for evaluation so please delete this accordingly.	TS Provision shall prevail.
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CLARIFICATION -1 (TECHNICAL)

187		Page 39 of 48	Adjustment Factor for Bid Evaluation	EvaluationAnd Comparison Of Bids: Adjustment Factor for Bid Evaluation A) Weighted Average Efficiency of Turbine & Generator : Against 73 MW Unit - 7,50,000/- per unit for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidderin their bid. Against 17 MW Unit - 1,50,000/- per unit for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder their bid. Transformer Losses : INR 1,75,000/- per transformer (for total losses = no load losses+ load losses + auxiliary losses) for each KW by which the Transformer losses quoted by the bidder exceeds over the least amount of losses quoted in one of the responsive bids.	The proposed adjustment factor during bid-evaluation stage is very much on the higher side . Hence, it is requested to please review and amend the same as per details below . A) Weighted Average Efficiency of Turbine & Generator : Against 73 MW Unit- INR 4,00,000 per turbine for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder Against 17 MW Unit - INR 1,00,000 per turbine for each one hundredth of one percent (i.e. 0.01%) by which the weighted average efficiency quoted by the bidder C) Transformer Losses : Normally not considered for evaluation so please delete this accordingly.	TS Provision shall prevail.	
Techno-Commercial Document/ITB							
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189		Page 15 of 84	19.1 Subcontracting	The corresponding attachment (list of sub-contractor) specifies major items of supply or services and a list of sub-contractor including vendors. The Employer reserves the right to delete any proposed sub-contractor from the list prior to award of contract. The contractor may from time to time propose any addition to or deletion from any such list. The Contractor shall submit any such list or any modification thereto to the Employer for its approval in sufficient time so as not to impede the progress of work on the facilities. The Contractor shall select and employ its Subcontractors for such major items from those listed in the list.	As per Government of India Guidelines to CPSEs, all CPSEs to register themselves on Gem portal and procurement of Goods and services are mandatory from GeM for which product/ service categories are available on GeM. Tentative list of vendors (as applicable as on date of submission of bid), shall be submitted alongwith Bid, however vendor list may vary at the time of execution of the project.		
190		Page 24 of 84	22. Installation	22.2.11 Supply of Water The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.	We request SJVNL to provide construction water as well as potable water for labor and other personnel at the worksite /colony. Please Confirm.		
191		Page 32 of 84	22.8 Watching and Lighting	Watching and Lighting	We understand that outside power house, watching and lighting shall be required at E&M stores only. Kindly confirm. "We understand that watch and ward shall be arranged by us in our store. Security in Power house project area along with handling of local law and order shall be provided by owner. General lighting facility in Power house and other work are during erection, testing and commissioning shall be made available by Owner. Please confirm"		
192		Page 96/113	Price Adjustment	1. APPLICABILITY: - (ii) The price adjustment shall be applied only if the resulting increase or decrease is more than 1% of the contract price as defined in the contract agreement	We request SJVNL to kindly consider of request which is as under:- The price adjustment shall be applied only if the resulting increase or decrease is more than 1% of the contract item price as defined in the contract agreement		
193		Page 97/113	Price Adjustment	3.1 Price Adjustment on Ex-factory prices for the plant and equipment shall be subject to a ceiling of ±30% (thirty percent) of Ex-Works component of the contract price respectively. The actual payment of escalation at any stage shall not exceed ±30% of cumulative Ex-Works of plant and equipment already supplied. Any escalation at any stage exceeding the aforesaid actual payment in either the Contract Price Component shall be kept to the credit of the contractor and shall be released as and when the actual payment of escalation falls below ±30% of cumulative Contract Price of plant and equipment already supplied, as the case may be. Any unadjusted credit shall however, lapse when the actual cumulative price adjustment payments reach the ceiling amount of ±30% of Contract Price component of the contract	We request SJVNL to kindly remove the ceiling limit +/- 30% under the Price Adjustment formulae. We would also like to mention that Ceiling limit in Price Adjustment formula is not applicable in many Central PSUs. Therefore, we request you to kindly remove this clause		