

<b>Rehabilitation of Penstock in Kameng HEP using combination of CFRP and GFRP</b>	 	<p style="text-align: right;"> <b>Corrigendum XIII</b>  <b>NIB No. NEEPCO/PEN/IND/001</b>  <b>Date: 09/05/2019</b> </p>
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**Corrigendum XIII**

With reference to **NIB No. NEEPCO/PEN/IND/001**, following amendments are being made in Corrigendum XI:

Sl. No.	Part Name	Clause No.	Bid Queries	Response
10	Part 1	Clause 6.2.1	<p>This requirement does not provide NEEPCO with the appropriate level of assurance regarding the experience level of the materials being utilized or the installation contractor. Industry best practice includes a minimum of 25-30 pipeline CFRP repair projects completed in the past 3 years. Additionally we would add that given the special circumstances and size of this project that NEEPCO should require installer to have completed a minimum of three (3) CFRP pipe repair projects which included at least 305 lineal meters addressed within the scope of work. We will provide owner contact information with certification that it is accurate, and we would be pleased to set up communication with the appropriate contacts. Collecting reference letters, given the timing, is not feasible. We also recommend that NEEPCO immediately speak directly to power generation facilities in the US who have used CFRP for pipeline repairs to gain more insight into project expectations and lessons learned. We would be pleased to provide contacts.</p>	<p>Please refer <b>Annexure-1 of this corrigendum.</b></p>
16	Part 1	Clause 6.3 (ii)	<p>Section 6.3ii – Liquid Asset: It is hereby requested that the liquid asset portion of these bid docs be removed and not required in order to encourage a more competitive international bidding environment.</p>	<p>Bid stipulations shall prevail.</p>

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17	Part 1	Clause 6.3 (iii)	<p>Section 6.3iii – Net Worth: It is hereby requested that the net worth requirement portion of these bid docs be removed and not required in order to encourage a more competitive international bidding environment.</p> <p>Section 6.3 – Audited Financials: it is hereby requested that only two years of audited financials for the preceding 5 years be required to bid on this project and that a letter of adequacy and commitment from a banking institution of international repute not be required.</p>	
27	Part 3	Clause 11	<p>Custom Duty, Custom clearance Charges, Transportation, Taxes, GST etc. shall be payable by client as per Clause 7.2 of Part-5</p>	<p>The provisions given at Cl. 7.2, Part-5 indicates the basis of arriving at the cost estimate. However, bidders shall work out their cost for the purpose of bidding following the relevant bid conditions viz, Clause No. 11 of Part-3(ITB), Clause 61 of Part-4(A) of Bid Document etc. and their subsequent corrigendum's to be read with Clause No. 2 of Part-4(B).</p>
30	Part 3	Clause 23.3	<ul style="list-style-type: none"> <li>- 18% on 15% of item No.2 is not clear as IGST</li> <li>- Who will take warranty if works are split in 2 vendors.</li> <li>- Inland Transportation, custom duty, clearance charges and other inland taxes as per Clause 7.2 of Part-5.</li> </ul>	<ol style="list-style-type: none"> <li>1. Regarding 18% on 15% of item No.2 is not clear as IGST, Corrigendum - V dated 15-04-2019 may be referred.</li> <li>2. In the event of splitting of work, the respective PIA shall be responsible for the warranty of the portion of work executed by him.</li> <li>3. The provisions given at Cl. 7.2, Part-5 indicates the basis of arriving at the cost estimate.</li> </ol>

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				<p>However, bidders shall work out their cost for the purpose of bidding following the relevant bid conditions viz, Clause No. 11 of Part-3(ITB), Clause 61 of Part-4(A) of Bid Document etc. and their subsequent corrigendum's to be read with Clause No. 2 of Part-4(B).</p>
76	Part 7		Form-A: Bill of Quantities	Revised Form-A: Bill of Quantities, Part-7 of Bid Document is enclosed as Annexure 2.

All other terms and conditions contained in the Detailed Bid Documents shall remain unchanged.



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## ANNEXURE 1

1. Clause No. 3.3.5.4 of the Bid Documents under Section-3 of Part-5 stands deleted.
2. Clause No. 8.5 of the Bid Documents under Section-8 of Part-5 stands deleted.
3. Additional Clauses 8.8 after 8.7 under Section 8 of Part-5 are included as follows:
  - a) Clause No. 8.8:

*The price for supply of CFRP material and assistance rendered by the PIA for successful completion of the Hydro Test as per stipulations of the Bid deemed to be included in the total Contract Price.*

4. Clause No. 6.2.1 of the Bid Document under Section-6 of Part-1 shall be replaced by following:

*A minimum of 10 years and 10,000 m<sup>2</sup> of surface area of documented FRP pipe rehabilitation experience with a minimum of 1.0 km length and minimum diameter of pipe that allows for man entry in pipeline rehabilitation projects verifiable with reference letters from respective owners. The pipe rehabilitation experience should include minimum 750 m of retrofit/rehabilitation work from inside of encased/buried pipe with pressured flow with in-situ wet lay-up CFRP/GFRP system.*



ANNEXURE 2

FORM-A: BILL OF QUANTITIES

ITEM NO.	ITEM	QTY.	UNIT	Whether Rate quoted in INR (Yes/No)	Whether Rate quoted in US\$ (Yes/No)	Rate	Amount
1.	Detail design and drawings of FRP System as detailed in the Bid complete	LS	LS				
2.	Supply, manufacture, testing and site installation of FRP System in various stretches of the Penstock as detailed below including provision for all labour, tools and tackles, plant & material as per technical specification of the Bid complete.						
	Sub Item	Penstock Stretch	Zone	RM	RM		
	a.	BFV House to AB - 1	Zone – 1A	26.13	M		
	b.	AB-1 to AB-2	Zone – 1	51.26	M		
	c.	AB-2 to AB-3	Zone – 2	87.23	M		
	d.	AB-3 to AB-4	Zone – 3	97.37	M		
	e.	AB-4 to AB-5	Zone – 4	105.24	M		
	f.	AB-5 to AB-6		78	M		
	g.	AB-6 to AB-7B	Zone – 5	118.13	M		
	h.	AB-7B to AB-8	Zone – 6	126.62	M		
	i.	AB-8 to AB-9	Zone – 7	104.04	M		
	j.	AB-9 to BP-16 B (VS-3)	Zone – 8	105.27	M		
	k.	BP-16 B to BP-17 B (Face-XI)	Zone – 9	346.82	M		
	l.	BP-17 B to BP-18 B	Zone – 10	42.5	M		



	(VS-5)							
m.	BP-18 B to BP-19 B (U/s of Bifurcation)	Zone – 11	146.01	M				
n.	BP-19 B to BP-20 B (Bifurcation-3)							
o.	BP-20 B to MIV (Powerhouse D-Line)	Zone – 12 B1 & B2	100.06 (2 x 50.03)	M				
3.	Surface preparation including all labour tools and tackles, plant and material for installation of FRP system as per technical specifications of the Bid complete		17750	Sqm				
4.	Supply, manufacture, testing and site installation of Anti abrasive top coating including all labour, tools and tackles, plant & material as per technical specification of the Bid complete		17750	Sqm				
5.	Drone Inspection of the entire stretch fitted with FRP System as per specification of the Bid complete		1	LS				
	Total:							

Note: 1. Any item not expressly indicated above in the BoQ but necessary to complete the works as per specifications are deemed to be included in the scope of works of the Contractor.

2. The Indian/ domestic bidders shall quote in INR only and whereas foreign bidders may quote either in INR or US\$ as per Clause No. 12, Part-3 of Bid Document.

Date \_\_\_\_\_