



འབྲུག་གློག་མི་ལས་འཛིན།

Bhutan Power Corporation Limited
 (An ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 Certified Company)
 Registered Office, Thimphu
 Procurement Services Department
 Thimphu: Bhutan



BPC/PSD/Tender/2021/13/ 297

May 10, 2021

Sub: Addendum No.1

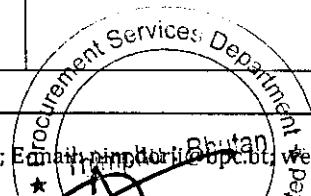
Reference: BPC/PSD/Tender/2021/13 for the Supply and Delivery of Electrical Materials dated 17th April, 2021.

Dear Sir(s),

This is with reference to above-mentioned tender whereby PSD, BPC has received the queries from the bidders. The response to the queries and some additional information are given below:

a. Technical Clarification:

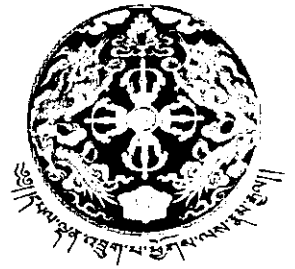
Sl No.	Clause/Document Ref	Query	Response
Lot 9: Distribution Transformer Meters			
1	Configuration Change	Could you please confirm the payment mode of the single phase and three phase transformer operated meters?	Payment mode is not required
2	Communication Module Interface port	So, may we know whether the communication module is needed in this tender? What type?	Communication modules are not required for now in this tender. However, the meter shall have all the features for future integration with any communication modules via mentioned communication ports to meter data system. In addition, this capabilities shall be demonstrated in-depth during the training schedule to educate and provide the necessary confidence for future implementation of communication system.
3	Current Transformer	Kindly give us CT Ratio and quantities	CT Ratio and quantities are provided in <i>Annexure 1 as Distribution Transformer Details</i>
		Kindly give us your required internal diameter of CT	CT inner diameter options shall be provided by the bidder as per the respective CT ratio with calculations and standards to be followed for approval.





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4	CT Terminals	Normally, C.T.s has 3 terminals, two for secondary (S1 & S2) and third for potential. Accordingly 3 core copper cable is required. If there is any special requirement for 5 core or 7 core, please explain. Also length of the cable should be specified.	BPC intends to: <ul style="list-style-type: none">➤ Use single cable of 5 core (2CT, 1PT, 1N and 1 Spare) for single phase meters➤ Use single cable of 5 cores (3PT, 1N, 1 Spare) and 7 cores (6CT, 1 Spare) for three phase meters Kindly refer the technical specs carefully, lengths for respective cables are mentioned in BOQ.
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b. **Lot 4 (Transformer Oil):** An additional of 10500 liters is added under this lot. Please find the revised price schedule for the Lot in *annexure 2*.

Accordingly the bid security for this lot has been increased from Nu. 28,526.00 to Nu. 46,355.00

c. An additional lot has been added to this tender as **Lot 12 (Copper Wires)**. Please refer *annexure 3* for the detail price schedule for lot 12 (Copper Wires)

The bid security for this lot shall be Nu. 31,000.00

d. **Lot 9 (Distribution Transformer Meters):** The quantity for item no. 2 of A and item no. 2 of B has been changed from 3918 nos. to 3885 nos. Moreover, the quantity of current transformer (item no. 1 and 2 of C) has been changed from 1 lot to 962 nos. for Single phase CT and 11655 nos. for three phase CT. Please find the revised price schedule for the Lot in *annexure 4*.

This addendum shall form the part of the bidding document and shall be binding.

However, due to the above inclusion and additional information, no time extension shall be granted and the submission date and time shall remain the same.

Please acknowledge the receipt of this Addendum No.1.

Thanking you,

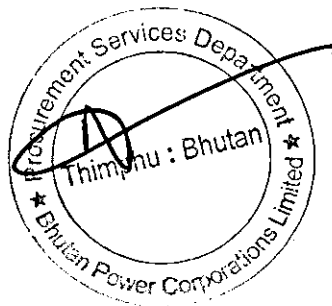
Yours sincerely,


(Nim Dorji)
General Manager

Annexure 1: Distribution Transformer Details

Single Phase Transformer				
XFMR Rating (kVA)	Quantity		CT Ratio	CT Inner Dia Options (Bidders to Provide)
	XFMR	CT		
25	939	939	150/5	
30	2	2	200/5	
63	3	3	400/5	
125	3	3	800/5	
250	7	7	1500/5	
400	2	2	2200/5	
500	5	5	3000/5	
1000	1	1	5000/5	
Total	962	962		

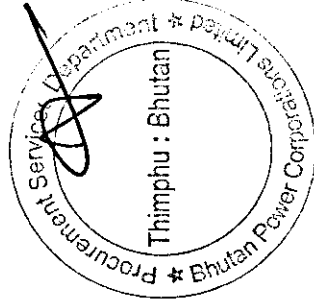
Three Phase Transformer				
XFMR Rating (KVA)	Quantity		CT Ratio	CT Inner Dia Options (Bidders to Provide)
	XFMR	CT		
50	1777	5331	100/5	
100	1236	3708	200/5	
150	241	723	300/5	
200	48	144	400/5	
250	243	729	450/5	
500	249	747	900/5	
750	55	165	1500/5	
1000	18	54	2000/5	
1500	5	15	3000/5	
2000	10	30	3500/5	
3000	3	9	5000/5	
Total	3885	11655		



Annexure 2

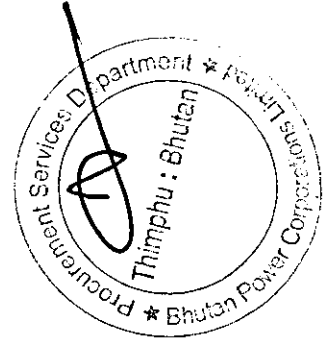
Revised Price Schedule for Lot No. 4: Transformer Oil

Sl. No.	Materials Description	UoM	Qty	Offered Brand and Country of Origin	Unit Rate in DDP (Nu.)	Amount in DDP (Nu.)
1	Transformer oil	L	27,300			



Annexure 3

Lot No. 12: Copper Wires						
SI No.	Materials Description	UoM	Qty	Offered Brand and Country of Origin	Unit Rate in DDP (Nu.)	Amount in DDP (Nu.)
1	Super enameled Cu. wire 9 SWG	KG	50.00			
2	Super enameled Cu. wire 11 SWG	KG	50.00			
3	Super enameled Cu. wire 15 SWG	KG	50.00			
4	Super enameled Cu. wire 16 SWG	KG	50.00			
5	Super enameled Cu. wire 17 SWG	KG	100.00			
6	Super enameled Cu. wire 18 SWG	KG	150.00			
7	Super enameled Cu. wire 19 SWG	KG	150.00			
8	Super enameled Cu. Wire 20 SWG	KG	200.00			
9	Super enameled Cu. Wire 21 SWG	KG	150.00			
10	Super enameled Cu. wire 22 SWG	KG	150.00			
11	Super enameled Cu. wire 23 SWG	KG	150.00			
12	Super enameled Cu wire 24 SWG	KG	150.00			
13	Super enameled Cu wire 25 SWG	KG	150.00			
14	Super enameled Cu wire 26 SWG	KG	150.00			
15	Super enameled Cu wire 27 SWG	KG	150.00			
16	Super enameled Cu wire 28 SWG	KG	100.00			
17	Dual coated enameled Cu. strip 5mmX3mm	KG	50.00			
18	Super enameled cu strip, 6mmx3mm	KG	50.00			
19	Super enameled Cu strip, 10mmx5.5mm	KG	50.00			
Total Lot Amount (Nu.)						



Annexure 4: Revised Price Schedule for Lot No. 9 (Distribution Transformer Meters)

Brand Restricted to: Actaris(Itron); Iskrameco, Slovakia; Landis-Gyr, India; Secure Maters, India; Micro Star Electric Company Limited China

S.No.	Description	Unit	Quantity	Offered Brand and Country of Origin	Unit Rate in DDP (Nu)	Amount in DDP (Nu)
A	DT Smart Grid Ready Meter Supply and Delivery					
1	Single phase static transformer connected DT Meter 240V, -/5 of accuracy class 1 with associated accessories for successful pole mount installation as per the specifications.	Nos.	962			
2	Three phase static transformer connected DT Meter 415V, -/5 of accuracy class 0.5S with associated accessories for successful pole mount installation as per the specifications.	Nos.	3885			
B	Meter Box Supply and Delivery					
1	DT meter box for Single Phase as per the specifications mentioned including all the accessories for pole mount.	Nos.	962			
2	DT meter box for Three Phase as per the specifications mentioned including all the accessories for pole mount.	Nos.	3885			
C	Current Transformers Supply and Delivery					
1	Current transformers for Single Phase meters as per the specifications	Nos.	962			
2	Current transformers for Three Phase meters as per the specifications	Nos.	11655			
D	Software, Probe, Mobile workstation and Control Cables Supply and Delivery					
1	Basic Computer Software as per the specifications	Nos.	30			
2	Software for local communication (FHU/CMRI/Computer)	Nos.	30			
3	Meter data API (RESTful API)	LOT	1			
4	Optical Probes for local communication as per the specifications	Nos.	30			
5	Mobile Workstation as per the specifications	Nos.	1			
6	A 5 core (2.5 sq.mm, as per relevant IEC Standard or IS) HRFR PVC insulated flexible multi strand control cables as per the specifications.	M	15000			
7	A 7 core armoured (2.5 sq.mm, as per relevant IEC Standard or IS) HRFR PVC insulated flexible multi strand control cables as per the specifications.	M	12000			
Total Lot Amount (Nu.)						

