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Invitation for Bids (IFB): PMD/EGMP/KRON/077/78-01

Design, Supply, Installation and Commissioning of 132/33kV Air Insulated Substation(AIS) at Keraun, Morang District with Associated 33kV Subtransmission Line
Project: Electricity Grid Modernization Project

	ification-5		1		
S.No	Volume / Section	Clause No.	Text as per Bid document	Prebid Query	Reply from NEA
1				Chapter 18-Appendix-B: The No. of Fibres is 48. But in the BOQ, the No. of Fibres is 24. Kindly what is the No. of Fibres.	Quote as per BPS
2	Volume II C	hapter 1- Project Specific	cation Requirement	Chapter 1- Project Specification Requirement:	Shall not be paid separately. Bidder
	Page 1-24 item 11.0 d) & BOQ			One number PABX shall be supplied and commissioned at each	needs to consider the price of the same
				new substations i.e. Keraun. But, in the BOQ, there is no PABX	if required in the respective equipment
				equipment. Kindly identify whether the PABX equipment need to	price item
3	Others			In the BOQ, there is no Drop & Insert Multiplexer Equipment, we	Shall not be paid separately. Bidder
				propose to add a Drop & Insert Multiplexer Equipment to	needs to consider the price of the same
				communicate with LDC on IEC 60870-5-101 protocol	if required in the respective equipment
4	Volume IIA-	Chapter 1: Project Specif	fic requirement Page No36	Whether Hydrant system is needed to be built in Substation. There	nrice item Quote s per BPS
	Description	of Items of BPS Given in	short: 4. Hydrant System	is no such item in BPS. Please clarify.	
	outside pun	np house as per technical	I specification: Hydrant system,		
	complete U/G & O/G piping and accessories etc. outside the Pump				
	House exce	ept Hydrants for Transforn	mer and Reactors.		
5	Volume IIA-Chapter 1: Project Specific requirement			Whether high velocity water spray system is needed to be built in	Quote s per BPS
	Page No36 Description of Items of BPS Given in short: 5. HVW			Substation. There is no such item in BPS. Please clarify.	
	spray system, Hydrant system as per specification for Transformer /				
	Reactor: H	VW spray system, Hydrai	nt system and complete U/G		
	& O/G piping and accessories etc. outside the pump house for				
(Transforme		.		Oracha a man DDC
6		Chapter 1: Project Specif	•		Quote s per BPS
	_	•	BPS Given in short: 3. Pumping		
	_		per technical specification:		
	Pumping arrangement for HVW system & hydrant system complete			Whether fire fighting pump house is needed to be built in	
7			chnical Requirement, Civil	Substation. There is no such item in BPS. Please clarify.	Quote s per BPS
		·	· ·	Substation. There is no such item in Dr. 5. Flease dainy.	
	Works Page No34 11.1 GENERAL Work covered under this Clause of the Specification comprises the design, drawing and construction of				
	foundations and other RCC constructions for switchyard tower				
	structuresFire fighting Pump house, fire fighting water tanks				
8	1	Chapter 14 – General Te		Whether fire fighting water water tank is needed to be built in	Quote s per BPS
	·			Substation. There is no such item in BPS. Please clarify.	
	covered under this Clause of the Specification comprises the				
	design,drawing and construction of foundations and other RCC				
	constructions for switchvard tower structures. Fire fighting Pump				

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Invitation for Bids (IFB): PMD/EGMP/KRON/077/78-01

Design, Supply, Installation and Commissioning of 132/33kV Air Insulated Substation(AIS) at Keraun, Morang District with Associated 33kV Subtransmission Line
Project: Electricity Grid Modernization Project

	Volume / Section	Clause No.	Text as per Bid document	Prebid Query	Reply from NEA
9	Volume-III, lightning arr		of 26 item 1.5 30 kV, 10 kA counter for cable protection	Please confirm the amount of 30kV lightning arrestor.	As per BOQ/BPS
	Volume-IIA, Transforme	, Chapter 1 1-14 3.1.6 3	3kV Indoor Switchgear for 2 no. 7 nos. Feeders bays. The	Please confirm the type of 33kV Switchgear:Indoor/Outdoor	33kV Switchgear:Outdoor
	Volume-IIB, bay diagran	•	liagram & 132kV Transformer	The connection type of transformer 33kV side and 33kV CT is inconsistent. Please confirm the connection type of transformer 33kV side and 33kV CT:tubular busbar across the road or ACSR conductor.	33kV Tubular busbar
12	Volume-IIB,	, Drawings All the Section	n diagrams	Please confirm the connection type of tubular busbar and Disconnecting switches:tubular busbar or ACSR conductor	33kV Tubular busbar
	Volume-IIA, Chapter 6 1.1.3 AC Emergency Lighting. The lighting panels of this system will be connected to the Emergency lighting board which is fed from diesel generator during the emergency			The diesel generator is no included in BOQ Please confirm whether the diesel generator is needed. If need be,please provide the parameters	No generator is in scope
	Volume-IIA, Chapter 1 4.2 e) Seismic Requirement for Substations: 0.5g			Please confirm whether the rail of transformer is needed under the Seismic intensity	As per Bid documents.
	Volume-IIB, Chapter 23 TDS Page 350 ITEM No.1: 22.5MVA POWER TRANSFORMER 16.1 Positive Sequence Impedance at			Volume-IIA, Chapter08 Page263 6.1 Technical Particulars / Parameters of Transformers HV-LV Impedance at 75 Deg C >11% The Impedance is inconformity in these two sheets	As per IEC
16	Volume-IIA,	, Chapter 7 1.0	er outdoor type oil filled 315 kVA.	Volume-IIA, Chapter 7 10.0 Rated Capacity 300kVA Please confirm the capacity of LT transformer	LT transformer: 300kVA, 33/0.4kV
	Volume-IIA, Chapter 12 8.2.5 The maximum size of each grid of			The size of grounding grid is probably not economical Please confirm the size of grounding grid:4X4or10X10 or else	As per Technical Specifications
18	Volume-III, Section IV Schedule 1: 5 of 26 item 1.10.2 1.10.3			There is no destination to calculate the amount. Please confirm the amount of cable	As per BPS/BoQ
19		, Chapter 23 TDS RENT TRANSFORMER		Volume-IIA, Chapter 3 GTR Page 142 Technical particulars of 33 kV current transformer Volume-III, SCHEDULE 1 :3 of 26 1.4.4 The parameter of 36kV CT is inconformity in these sheets	As per Technical Data in Specification. Ratio and ratings of the CTs will be finalized during DDE

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Invitation for Bids (IFB): PMD/EGMP/KRON/077/78- 01 Design, Supply, Installation and Commissioning of 132/33kV Air Insulated Substation(AIS) at Keraun, Morang District with Associated 33kV Subtransmission Line Project: Electricity Grid Modernization Project

		Clause No.	Text as per Bid document	Prebid Query	Reply from NEA
	Section				
20	Volume-IIA	Chapter 1 (I) KERAUN-F	RANGELI	Volume-IIA Chapter 1 (I) KERAUN-RANGELI 33kV	Suggest to bidders for site visit before
	33kV SUBT	RANMISSION LINE,(II)	KERAUN- BIRATCHOWK 33kV	SUBTRANMISSION LINE,(II) KERAUN-BIRATCHOWK	bid submission
	SUBTRANMISSION LINE			33kV SUBTRANMISSION LINE, Please kindly provide the	
				percentage of strain tower, how many large, middle and small	
				angle tower needed? The quantity strain tower would serious	
				impact on the weight of tower and also the neccesary hardware.	
21	Volume-IIA	Chapter 1 (I) KERAUN-F	RANGELI	Volume-IIA For (II) KERAUN-BIRATCHOWK 33kV	Chisang River. The tentative span is
	33kV SUBT	RANMISSION LINE,(II)	KERAUN- BIRATCHOWK 33kV	SUBTRANMISSION LINE, Pls kindly provide span distance	maximum 200m
	SUBTRAN	MISSION LINE		between two lattice towers and the height of lattice tower. And pls	
				kindly confirm whether the transmission would need to get across	
	·			any river or not	
22	Volume-IIA	Chapter 1 (I) KERAUN-F	RANGELI	Pls kindly provide bidder the transmission line route alignment	It will be provide during Engineering
	33kV SUBT	RANMISSION LINE,(II)	KERAUN- BIRATCHOWK 33kV	map for bidding document preparation and site survey.	Design. The successful bidders is
	SUBTRAN	MISSION LINE			required to do the necessary route
					survey and finalize the route before the
					construction of line and is a part of the
23	Volumo II 1	507303935 vol IIA - Pag	ge 14 Chapter 1 PROJECT	(I) KERAUN 132/33 kV SUBSTATION 3.0 DETAILED SCOPE	Turnkey project. Plz refer earlier clarification.
			FOR (I) KERAUN 132/33 kV	OF WORK, Term 3.1.6 33kV Indoor Switchgear for 2 no.	1 12 Telef carrier clarification.
		, ,	OPE OF WORK, Term 3.1.6	Transformer Incomer bay 132/33kV, 7 nos. Feeders bays. The	
	&BOQ	ON 5.0 DETAILED OOK	or E or Work, remi 5.1.0	indoor Switchgear shall be kept in the control room Building. But,	
	abod			in the BOQ, Item 1.2.4, Item 1.2.5 and Item 1.3.4, Item 1.3.5, Item	
				1.3.6. They all live-tank swithgear, not as above specified indoor	
				- 4.b	
24			cation Requirement (I) KERAUN	Pls kindly clarify in (I) KERAUN 132/33 kV SUBSTATION,	OPGE cable will be used for earthing
	132/33 kV S	SUBSTATION		which type of earthing line would be used for Line Terminal Tower	line for tower. Details of 132kV
				? And also rotation angle of the transmission line and span lenth	Transmission Line will be provide during Engineering Design.
				condition ?	during Engineering Design.

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Invitation for Bids (IFB): PMD/EGMP/KRON/077/78- 01 Design, Supply, Installation and Commissioning of 132/33kV Air Insulated Substation(AIS) at Keraun, Morang District with Associated 33kV Subtransmission Line Project: Electricity Grid Modernization Project

	arification-5								
S.No	Volume / Section	Clause No.	Text as per Bid document	Prebid Query	Reply from NEA				
25	Volume IIA	& BOQ		The scope of work includes one no. 33kV Incoming bay extension work at Biratchowk Substation, as clarification specified, details information will be provided during engieering design, also the BOQ specified: item A3 Supply and Delivery for 33kV one bay extension work at Biratchowk 33kV Substation. Pls kindly provide the future bay single line drawings for bidder to quote accordingly. If could not provided, is it possible to confirm all the equipment quantity and equipment specificaiton needed for this future bay?	Please qiotes as per BOQ for equipment quantity.				
26	Volume II 1597392825_vol-IIA, Page 32 Chapter 1 PROJECT SPECIFIC REQUIREMENT (PSR) 15. SERVICE LEVEL AGREEMENT (SLA)			In this term specified: Support services (including Maintenance) for 3 years: The Scope of Work shall include the power infrastructure operation and maintenance support to be provided by the Contractor in respect of the system supplied under this project for a period of three years along with Supervision & Operation of the power distribution infrastructure along with communication network after the Operational Acceptance of the entire project, however during the execution of the infrastructure work it is expected that certain portion of the work if completed and put to service before the actual completion and commissioning of the entire project, then in that case also the support services including O&M shall be the responsibility of the contractor in accordance with this document, at no additional/ extra cost towards payment of support services (O&M) during this intervening period. Pls clarify how much working load needed for this part?: "during the execution of the infrastructure work it is expected that certain portion of the work if completed and put to service before the actual completion and commissioning of the entire project," pls brief us on the situation.					
27		_vol-IIA, Page 32 Chapter ENT (PSR) 15. SERVICE	1 PROJECT SPECIFIC LEVEL AGREEMENT (SLA)	15.2 The bidder shall provide 24x7 support to NEA to comply with SLAs in case of any problem. Pls clarify whether 24 X 7 means 24 hours per day and 7 days per week?	Not Required and is Deleted				
28		_vol-IIA,Page 32 Chapter ENT (PSR) 15. SERVICE I	1 PROJECT SPECIFIC LEVEL AGREEMENT (SLA)	Additions and deletions after the commissioning of the entire project in the power distribution network is a dynamic phenomenon and shall be catered by the contractor. The network analysis with respect to the additions/deletions in the power distribution network and designing of the network configuration shall also be carried out by the contractor. Pls clarify according to this term, whether any equipment that need to provide for Additions and deletions?	Not Required and is Deleted				

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Invitation for Bids (IFB): PMD/EGMP/KRON/077/78-01

Design, Supply, Installation and Commissioning of 132/33kV Air Insulated Substation(AIS) at Keraun, Morang District with Associated 33kV Subtransmission Line Project: Electricity Grid Modernization Project

S.No		Clause No.	Text as per Bid document	Prebid Query	Reply from NEA
	Section				
29	Volume II 1597392825 PROJECT SI	_vol-IIA, Page 32 Chapter PECIFIC REQUIREMENT E LEVEL AGREEMENT (S	(PSR)	vi. Any future planning, estimation, augmentation and execution work for strengthening of the existing system shall be done by the contractor during the O&M period. Any material required for the above work shall be provided by the contractor on the same rates as per the award of original project. If this term said, any future planing, augmentation and execution work for strengthenging of the exsisting system, durting the O&M period, and the contractor need to provide any material required for above work. As the future work scope is not clear here, the budget for the above service could not be calculated or even estimated and may be unlimited. During the O&M period, any augmentation could happen if owner needed. Pls clarify how much work for the contractor need to do in the future to let the bidder have a clue for what future scope.	
30	Volume II 1597392825_vol-IIA, Page 54 CHAPTER 2- GENERAL TECHNICAL REQUIREMENT 4.6.3.1 For 33 kV & 145 kV Equipments 1597392825_Vol-IIB, Page 365 Chapter 23 Technical Sheet ITEM No. 4b: 33kV DISCONNECTING SWITCH & EARTH SWITCH		45 kV Equipments 23 Technical Sheet ITEM No. 4b:	CHAPTER 2- GENERAL TECHNICAL REQUIREMENT 4.0 SERVICES TO BE PERFORMED BY THE EQUIPMENT BEING FURNISHED 4.6.3.1 For 33 kV & 145 kV Equipments Rated insulation level: between terminals with isolator open ±200kVp & ±750 kVp respectively And we find in 1597392825_Vol-IIB, Page 365 Chapter 23 Technical Sheet ITEM No. 4b, withstand voltage(peak): 33kV DISCONNECTING SWITCH & EARTH SWITCH, 7.1 Impulse withstand voltage(peak), the same technical paramenter is 170 kV Pls clarify which one is right?	As per Technical Specifications
31	Requirement		3 –General Technical ABLE – II C, REQUIREMENTS ERS (22.5 MVATransformer)	Volume II 1597392825_vol-IIA, Page 137 Chapter 3 – General Technical Requirement, Instrument Transformer TABLE – II C, REQUIREMENTS FOR 145 kV CURRENT TRANSFORMERS (22.5 MVATransformer) At this table, the ratio of BUS DIFF CHECK should be 1200-600/1, but ratio of TRANS. DIFF/LINE PROTN should be 100-200/, all the vendors replied us that they cannot manufacture on Current Transformer that satisfy these two ratio, Pls clarify whether the requirement is right or wrong?	It will be as per Specification but if it diffucult for manufacture, it will be change during details design.

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Invitation for Bids (IFB): PMD/EGMP/KRON/077/78-01

Design, Supply, Installation and Commissioning of 132/33kV Air Insulated Substation(AIS) at Keraun, Morang District with Associated 33kV Subtransmission Line
Project: Electricity Grid Modernization Project

S.No	Volume /	Clause No.	Text as per Bid document	Prebid Query	Reply from NEA
	Section				
32	Volume III			According to given BOQ, the unit of "Steel Tubular Pole.(Fully	Any variation in quantity, the rate
	159739282	5_Vol-III_Keraun, Page 20	0, Part 2	Galvanized) 12 Meter, equivalent strength or	application shall be as per quoted in BPS.
	Keraun-Rangeli 33kV Transmission Line,			more than 540 SP-66 (322 Kg)-IS 2713 Part III" was	
				No.s, During DDE and project execution period ,	
	A1,Supply and Delivery of Works for 33kV Line (Steel tubular pole :			when the quantity of this item need to be adjusted, the unit price	
	equivalent strength or more than 540 SP-66 (322 Kg)-IS 2713 Part			should be according to actual weight of	
	III),			Poles, not only refer to the submitted unit price of quotation. or	
				when the quantity need to be adjusted, the change of total price	
	Steel Tubul	ar Pole.(Fully Galvanized	d) 12 Meter, equivalent strength	should according to the submitted unit price of Steel tubular pole,	
	or			not consider the weight of pole ?	
	more than 540 SP-66 (322 Kg)-IS 2713 Part III.				
	,			Pls clarify whether our understanding is right or wrong	
33	Letter Ref.	No:077/78, Ch:48,	Pre- bid Query: Type test on	As mentioned in your reply that Dynamic short circuit test equal	Please refer earlier clarification and Bid
	Clarification	on No.4, S.No.2, clause	132kV voltage class, three	or higher rating of transformer of same voltage will be	document.
	No.2.5 Subcontractor, PDF phase 63 MVA & 22.5 MVA		phase 63 MVA & 22.5 MVA	acceptable. In General, Indian Practice, 132/33 kV Voltage level	
			transformer and Dyanamic	maximum rating 63 MVA PTR is available but Dynamic Short	
	. age e. ===		Short Ciruit test on similar type	circuit test not available. We request you for Dynamic short	
			of 132kV Vlotage level	circuit test report either you accept lower rating (up to 50 MVA)	
			Transformer. Please clarify	transformer in same voltage or equal/higher rating in higher	
			Dyanamic Short Ciruit test on	voltage level.	
			any other rating of same		
			voltage class is accepatble or		
i			not.		
			Reply from NEA: Dyanamic		
2.4	Taskasiasl	Consideration At Dans	Short Ciruit test on equal or	Handwine decimal count 0 to a of circultance with a which we	The successful bidder is required to design
34			SAS-BCU integration	Hardwired signal count & type of signal is not given which we	& provide drawings for approval during
	no. 314			need to consider for BCU connectivity.Please arrange the Hardwired signals type & count which we need to integrate with	DDE.
				SAS-BCU.	
35				Bidder has to submit Type Test including Dynamic Short Circuit of	Confirm
33				132kV voltage level transformer 63MVA or higher rating of	Commin
				transformer.	
36				If bidder doesn't have such type test need to submit undertaking	Confirm
				letter to carry out such tesst as per detail mentioned in	
				Subcontractor Qualification.	

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Invitation for Bids (IFB): PMD/EGMP/KRON/077/78-01

Design, Supply, Installation and Commissioning of 132/33kV Air Insulated Substation(AIS) at Keraun, Morang District with Associated 33kV Subtransmission Line
Project: Electricity Grid Modernization Project

		Clause No.	Text as per Bid document	Prebid Query	Reply from NEA
	Section				
37				faispach, manaractare has to complete houtine test and Type test	The manufacturer/ Contractor is required to perform Routine & Type Test as per Specification & during FAT.
38				At commissioning stage contractor have to carry out field test as per clause no. 5.3 of Power Transformer Technical Specification.	Confirm as per Specification.