

Procurement of Transformers for Tato-I Hydro Electric Project (186 MW), Arunachal Pradesh	 ISO: 9001, 14001,	Bid Document Vol-I, Sec-IX Price-Schedules
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Tender Inviting Authority: Executive Director, C&P Department, NEEPCO Shillong.							
Name of Work: Transformer Package Tato-I Hydro Electric Project (186 MW),Arunachal Pradesh.							
Contract No:							
PRICE SCHEDULE I							
Sl. No.	Item Description	Quantity	Units	BASIC TOTAL RATE In Figures Rs. P		TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	Total from Price Schedule II (Supply)	1.000	Nos	0.00		0.00	INR Zero Only
2	Total from Price Schedule III (F&I)	1.000	Nos	0.00		0.00	INR Zero Only
3	Total from Price Schedule IV (E&C)	1.000	Nos	0.00		0.00	INR Zero Only
Total in Figures						0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only					

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Tender Inviting Authority: Executive Director, C&P Department, NEEPCO Shillong.									
Name of Work: Transformer Package Tato-I Hydro Electric Project (186 MW), Arunachal Pradesh.									
Contract No:									
PRICE SCHEDULE II (Supply)									
Sl. No.	Item Description	Quantity	Units	Unit Ex-Works Price for Supply in INR	Taxes and Duties in percentage(%)	Amount on which Taxes and Duties applicable	Amount of Taxes and Duties in INR	TOTAL AMOUNT including taxes and duties in Rs. P	TOTAL AMOUNT In Words
1	GENERATOR TRANSFORMERS								
1.01	11kV/220/√3kV, 27 MVA, 1 Ph, 50Hz, Z=12.5%, off circuit tap changer, Vector group YNd11, OFWF step-up transformer suitable for 3 Ph bank connection in Delta/Star with neutral solidly grounded. Transformer shall be supplied complete with HV neutral bushing for connection to neutral bus, HV bushing suitable for oil to gas termination and LV bushings with flanges suitable for IPBD	10.000	Nos.			0.00	0.00	0.00	INR Zero Only

	<p>termination and external delta formation, 1No, 2 core, 17.5 kV, 400/1/1A CL PS Neutral (external zero sequence) CT per bank ,1 Nos. 3 core, 400/1/1/1A , CT mounted in HV bushing turret, first fill of oil + 10% extra oil complete with Air cell type conservator, Two automatic Pressure reducer (From 3 to 5 kg/cm2 to a constant 0.2 kg/sq.cm (a value less than oil pressure inside the tank)) for each Transformer bank. WTI, OTI, Optical sensor for temperature measuring, Buchholz relay, MOG, Breather, MB, oil pumps, oil to water coolers and associated instruments, valves, flanges etc. as per technical specification and as below :</p>								
1.02	First fill of oil for all equipment supplied, with 10% extra oil	1.000	Lot			0.00	0.00	0.00	INR Zero Only

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1.03	The 11 kV interface flange with the 5000 A insulated phase duct.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.04	The 220 kV SF6 Insulated transformer termination for connection to 220 kV GIS tube including the coordination, supervision and approval of the termination connection.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.05	The insulated neutral bus and zero sequence external CT (two cores required) including insulators and supports.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.06	The current transformer, protection and control cables, and connections between the transformer control cabinets, marshalling kiosks and the marshalling box & RTU Cubicle.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.07	Marshalling box per transformer bank complete with disconnect type terminals for voltage circuits and short-	1.000	Bank			0.00	0.00	0.00	INR Zero Only

	circuiting type terminals for current circuits and all the necessary incoming and outgoing terminal blocks including all inter-connecting cables.								
1.08	Marshalling kiosks per transformer complete with disconnect type terminals for voltage circuits and short-circuiting type terminals for current circuits and all the necessary incoming and outgoing terminal blocks including all inter-connecting cables.	3.000	Bank			0.00	0.00	0.00	INR Zero Only
1.09	The water connection to the isolation valves provided within the transformer enclosure including flexible and supports.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.1	The 415/240 V AC cables and connections between the main and standby oil pump control panels and the common marshalling box.	1.000	Lot			0.00	0.00	0.00	INR Zero Only

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1.11	The 415/240 V AC disconnect switches (2 per Bank of transformers.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.12	RTU Panel (TRB)	1.000	Bank			0.00	0.00	0.00	INR Zero Only
1.13	Mandatory Spares as per Technical Specification.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
2	DISTRIBUTION TRANSFORMERS								
2.01	Station-Service Transformer (SST) : Station Service Transformer: 5000 kVA, 220 kV / 33 kV, 3 phase, 50 Hz, YNyn0, Step-down, Oil Type, Indoor transformer with Off-Circuit Tap Changer and suitable for cable connection for LV.	1.000	No			0.00	0.00	0.00	INR Zero Only
2.02	Station Auxiliary Transformer (SAT): Station Auxiliary Transformer: 1500 kVA, 33/0.433 kV, 3 phase, 50 Hz, Dyn11, Dry Type, Indoor transformer with Off-Circuit Tap Changer and suitable for cable connection.	2.000	Nos.			0.00	0.00	0.00	INR Zero Only

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2.03	Unit Auxiliary Transformer (UAT): Unit Auxiliary Transformer: 630 kVA, 11 kV / 0.433 kV, 3 phase, 50 Hz, Dyn11, Step-down, Dry Type, Indoor transformer with Off-Circuit Tap Changer and suitable for cable connection for LV.	3.000	Nos.			0.00	0.00	0.00	INR Zero Only
2.04	HRT INTAKE AUXILIARY TRANSFORMER : HRT Intake Auxiliary Transformer: 160 kVA, 33 kV / 0.433 kV, 3 phase, 50 Hz, Dyn11, Step-down, Oil Type, transformer with Off-Circuit Tap Changer	1.000	No			0.00	0.00	0.00	INR Zero Only
2.05	VALVE HOUSE AUXILIARY TRANSFORMER: Valve House Auxiliary Transformer: 160 kVA, 33 kV / 0.433 kV, 3 phase, 50 Hz, Dyn11, Step-down, Oil Type, transformer with Off-Circuit Tap Changer	1.000	No			0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Executive Director, C&P Department, NEEPCO Shillong.									
Name of Work: Transformer Package Tato-I Hydro Electric Project (186 MW),Arunachal Pradesh.									
Contract No:									
PRICE SCHEDULE III (F&I)									
Sl. No.	Item Description	Quantity	Units	Unit F&I Price in INR	Taxes and Duties in percentage(%)	Amount on which Taxes and Duties applicable	Amount of Taxes and Duties in INR	TOTAL AMOUNT including taxes and duties in Rs. P	TOTAL AMOUNT In Words
1	GENERATOR TRANSFORMERS								
1.01	Generator Transformer : 11kV/220/√3kV, 27 MVA, 1 Ph, 50Hz, Z=12.5%, off circuit tap changer, Vector group YNd11, OFWF step-up transformer suitable for 3 Ph bank connection in Delta/Star with neutral solidly grounded. Transformer shall be	10.000	Nos.			0.00	0.00	0.00	INR Zero Only

	<p>supplied complete with HV neutral bushing for connection to neutral bus, HV bushing suitable for oil to gas termination and LV bushings with flanges suitable for IPBD termination and external delta formation, 1No, 2 core, 17.5 kV, 400/1/1A CL PS Neutral (external zero sequence) CT per bank ,1 Nos. 3 core, 400/1/1/1A , CT mounted in HV bushing turret, first fill of oil + 10% extra oil complete with Air cell type conservator, Two automatic Pressure reducer (From 3 to 5 kg/cm² to a constant 0.2 kg/sq.cm (a value less than oil pressure inside the tank)) for each Transformer bank. WTI, OTI, Optical sensor for temperature measuring, Buchholz relay, MOG, Breather, MB, oil pumps, oil to water coolers and associated instruments, valves, flanges etc. as per technical specification and as below:</p>								
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1.02	First fill of oil for all equipment supplied, with 10% extra oil	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.03	The 11 kV interface flange with the 5000 A insulated phase duct.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.04	The 220 kV SF6 Insulated transformer termination for connection to 220 kV GIS tube including the coordination, supervision and approval of the termination connection.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.05	The insulated neutral bus and zero sequence external CT (two cores required) including insulators and supports.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.06	The current transformer, protection and control cables, and connections between the transformer control cabinets, marshalling kiosks and the marshalling box & RTU Cubicle.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.07	Marshalling box per transformer bank complete with disconnect type terminals for voltage circuits and short-circuiting type terminals	1.000	Bank			0.00	0.00	0.00	INR Zero Only

	for current circuits and all the necessary incoming and outgoing terminal blocks including all inter-connecting cables.								
1.08	Marshalling kiosks per transformer complete with disconnect type terminals for voltage circuits and short-circuiting type terminals for current circuits and all the necessary incoming and outgoing terminal blocks including all inter-connecting cables.	3.000	Bank			0.00	0.00	0.00	INR Zero Only
1.09	The water connection to the isolation valves provided within the transformer enclosure including flexible and supports.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.1	The 415/240 V AC cables and connections between the main and standby oil pump control panels and the common marshalling box.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
1.11	The 415/240 V AC disconnect switches (2 per Bank of transformers.	1.000	Lot			0.00	0.00	0.00	INR Zero Only

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1.12	RTU Panel (TRB)	1.000	Bank			0.00	0.00	0.00	INR Zero Only
1.13	Mandatory Spares as per Technical Specification.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
2	DISTRIBUTION TRANSFORMERS								
2.01	Station-Service Transformer (SST) : Station Service Transformer: 5000 kVA, 220 kV / 33 kV, 3 phase, 50 Hz, YNyn0, Step-down, Oil Type, Indoor transformer with Off-Circuit Tap Changer and suitable for cable connection for LV.	1.000	No			0.00	0.00	0.00	INR Zero Only
2.02	Station Auxiliary Transformer (SAT): Station Auxiliary Transformer: 1500 kVA, 33/0.433 kV, 3 phase, 50 Hz, Dyn11, Dry Type, Indoor transformer with Off-Circuit Tap Changer and suitable for cable connection.	2.000	Nos.			0.00	0.00	0.00	INR Zero Only
2.03	Unit Auxiliary Transformer (UAT): Unit Auxiliary Transformer: 630 kVA, 11 kV / 0.433 kV, 3 phase, 50 Hz, Dyn11, Step-down, Dry Type,	3.000	Nos.			0.00	0.00	0.00	INR Zero Only

	Indoor transformer with Off-Circuit Tap Changer and suitable for cable connection for LV.								
2.04	HRT INTAKE AUXILIARY TRANSFORMER : HRT Intake Auxiliary Transformer: 160 kVA, 33 kV / 0.433 kV, 3 phase, 50 Hz, Dyn11, Step-down, Oil Type, transformer with Off-Circuit Tap Changer	1.000	No			0.00	0.00	0.00	INR Zero Only
2.05	VALVE HOUSE AUXILIARY TRANSFORMER: Valve House Auxiliary Transformer: 160 kVA, 33 kV / 0.433 kV, 3 phase, 50 Hz, Dyn11, Step-down, Oil Type, transformer with Off-Circuit Tap Changer	1.000	No			0.00	0.00	0.00	INR Zero Only
2.06	Mandatory Spares as per Technical Specification.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
3	Earthing Material of equipment for connection from over ground riser.	1.000	Lot			0.00	0.00	0.00	INR Zero Only
4	Transformer Oil Filtration system								
4.01	6000 LPH Transformer Oil Filtration System including	1.000	Lot			0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Executive Director, C&P Department, NEEPCO Shillong.									
Name of Work: Transformer Package Tato-I Hydro Electric Project (186 MW), Arunachal Pradesh.									
Contract No:									
<u>PRICE SCHEDULE IV (E&C)</u>									
Sl. No.	Item Description	Quantity	Units	Unit Erection, Testing & Commissioning Price in INR	Taxes and Duties in percentage(%)	Amount on which Taxes and Duties applicable	Amount of Taxes and Duties in INR	TOTAL AMOUNT including taxes and duties in Rs. P	TOTAL AMOUNT In Words
1	GENERATOR TRANSFORMERS								

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1.01	Generator Transformer : 11kV/220/√3kV, 26.75 MVA, 1 Ph, 50Hz, Z=12.5%, off circuit tap changer, Vector group YNd11, OFWF step-up transformer suitable for 3 Ph bank connection in Delta/Star with neutral solidly grounded. with all the associated accessories as detailed in the Technical specifications.:	9.000	Nos.			0.00	0.00	0.00	INR Zero Only
2	DISTRIBUTION TRANSFORMERS								
2.01	Station-Service Transformer (SST) : Station Service Transformer: 5000 kVA, 220 kV / 33 kV, 3 phase, 50 Hz, YNyn0, Step-down, Oil Type, Indoor transformer with Off-Circuit Tap Changer and suitable for cable connection for LV.	1.000	No			0.00	0.00	0.00	INR Zero Only

2.02	Station Auxiliary Transformer (SAT): Station Auxiliary Transformer: 1500 kVA, 33/0.433 kV, 3 phase, 50 Hz, Dyn11, Dry Type, Indoor transformer with Off-Circuit Tap Changer and suitable for cable connection.	2.000	Nos.			0.00	0.00	0.00	INR Zero Only
2.03	Unit Auxiliary Transformer (UAT): Unit Auxiliary Transformer: 630 kVA, 11 kV / 0.433 kV, 3 phase, 50 Hz, Dyn11, Step-down, Dry Type, Indoor transformer with Off-Circuit Tap Changer and suitable for cable connection for LV.	3.000	Nos.			0.00	0.00	0.00	INR Zero Only
2.04	HRT INTAKE AUXILIARY TRANSFORMER : HRT Intake Auxiliary Transformer: 160 kVA, 33 kV / 0.433 kV, 3 phase, 50 Hz, Dyn11, Step-down, Oil Type, transformer with Off-Circuit Tap Changer	1.000	No			0.00	0.00	0.00	INR Zero Only

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Notes: 1. The Above PRICE SCHEDULE V (Optional Item) will not be considered for evaluation of L1 price.

2. The above price schedule shall also be submitted along with Techno-Commercial offer without indicating the prices.