

	<u>Price Bid format</u> <u>[for Main Supply + Mandatory Spares]</u>	Annexure-[B] of PY 56311	
	<u>FPS PLC System</u>	Rev 00	
	Project: 3x800MW NTPC Patratu TPS		
BHEL ENQUIRY NO :		Vendor Offer ref no:	
Ref. date:		Ref. date:	
NOTES ::			
1	This document details the price schedule format for the enquiry. No other format will be entertained. Applicable taxes and duties shall be indicated separately in commercial offer.		
2	Duly signed & stamped un-priced price schedule format shall be submitted by vendor in the technical offer as a token of concurrence that price schedule would be submitted in this format. Any tampering / modification / additions, etc. are NOT allowed and not considered binding and is liable for rejection of the offer.		
3	Bidders shall be evaluated on overall L1 basis.		
4	For addition/reduction of quantity, unit rate quoted in the present offer shall be considered during ordering and shall be valid up to execution of the contract to the extent of +10% and -30% of order Value. These would include the cost up to engineering, installation of the item, wiring up in the panel and seamless integration with main system at works/site without any cost implications. All accessories required for this purpose shall be included in the price quoted.		
5	Billing will be as per BOM of actual supplied main equipment (including accessories & services) & spares.		
6	Per diem charges shall be applicable from the day bidder's person reaches site, up to the day he leaves the site.		
7	Unit Rates of the individual package items shall be derived by multiplying the "Unit Price Fixing Factor" with the Lumpsum Price quoted. Unit Rates of the Individual items thus arrived, shall be binding on the bidder, in case of any repeat order/Ammendment of order as per BHEL policies. Observations / Objections, if any, of the Bidder, to the "Unit Price Fixing Factor" shall be brought to the notice of BHEL, during Pre-Bid Stage. No Observations / Objections shall be enterained after the Techno-Commercial Bid is opened.		
8	No of Man Days / no of visits are indicative only. For any addition / deletion / reduction visits/ Man Days, then the Bidder shall provide the service on chargeable basis at the same rate quoted in the price schedule. Hence, the Man Day rate and rate per visit is fixed throughout the contract period and extension, if any		
9	Components/Items for addition / deletion, spares shall be identical to the main equipment.		
10	Unit rates of components would be used for effecting required additions/deletions of main equipment during order execution. These would include the cost up to engineering, installation of the item, wiring up in the panel and seamless integration with main system at works/site without any cost implications. All accessories required for this purpose shall be included in the price quoted.		
11	This list is indicative. Vendor has to include and quote unit rates for all items which are figuring in main supply & mandatory spares. Your offer will NOT be evaluated without unit rates.		



Price Bid format
[for Main Supply + Mandatory Spares]

Annexure-[B] of PY 56311

FPS PLC System

Rev 00

Project: 3x800MW NTPC Patratu TPS

S. No	Item Description	Quantity [I]	Units	Unit Rate (Rs.) [II]	TOTAL PRICE (Rs.) [I*II]	Weightage (%) for Calculation of Line Item Prices by BHEL Weightage of each item /unit price fixing factor (Refer Note-7) (%)	Remarks
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[A] FPS PLC - Supply, Design, Engg, Testing & Training - [MAIN SUPPLY]

1	PY9756311002	PLC Pkg for Fire Protection System [MAIN SUPPLY]	1	Set		44.479	
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MAIN SUPPLY Total prices (Sub-total of [A]) (Rs.) :: **----- [1]**

[B] PLC Pkg for Fire Protection System - [Vendor Services]

1	PY9856311101	Supervision of Erection & Commissioning Services charges at site including lodging, boarding, local travel, insurance, etc. [Unit Rate = Per man day charges]	20	Days		5.235	
2	PY9856311110	Supervision of Erection & Commissioning visit charges [i.e. travel expenses like travel to & fro from vendors work to site, clearance charges like visa fee, etc.] [Unit rate = per visit travel expenses]	5	Visits		1.51	

Vendor SERVICES Total prices (Sub-total of [B]) (Rs.) :: **----- [2]**

[C] PLC Pkg for Fire Protection System - [Mandatory Spares]

1	PY9756311010	PLC Pkg for Fire Protection System [Mandatory Spares]	1	Set		6.176	
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Mandatory Spares Total prices (Sub-total of [C]) (Rs.) :: **----- [3]**

[D] Field Instruments & their Hookup materials - [MAIN SUPPLY]

1	PY9756311029	Field Instruments & their Hookup materials - [MAIN SUPPLY]	1	Set		39.23	
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MAIN SUPPLY Total prices (Sub-total of [D]) (Rs.) :: **----- [4]**

[E] Field Instruments & their Hookup materials - [Mandatory Spares]

1	PY9756311037	Field Instruments & their Hookup materials - [Mandatory Spares]	1	Set		3.37	
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Mandatory spares Total prices (Sub-total of [E]) (Rs.) :: **----- [5]**

Total prices for overall L1 evaluation ([1] + [2] + [3] + [4] + [5]) (Rs.) ::

	Price Bid format [for Main Supply]		Annexure-[B] of PY 56311		
	Field Instrument and Hookup Materials		Rev 00		
	Project: 3x800MW NTPC Patratu TPS				
BHEL Material code PY9756311029					
S. No	Type of instrument	Supply Quantity	Units	Weightage (%) for Calculation of Line Item Prices by BHEL Weightage of each item /unit price fixing factor (Refer Note-7) (%)	Bidders Confirmation
1	Pressure Transmitter with 2-Vlv Manifold	30	No.'s	10.548	
2	Pressure Gauge with 2-Vlv Manifold	55	No.'s	1.102	
3	Diff Pressure Switch with 5-Vlv Manifold	1	No.'s	0.179	
4	Diff. Pressure Gauge (Bourdon Tube) with 5-Vlv Manifold	1	No.'s	0.18	
5	Level Transmitter (GUIDED WAVE RADAR), Range:0-15Meters	4	No.'s	4.21	
6	Flow Switch	2	No.'s	0.148	
7	Pressure Switch	478	No.'s	16.635	
8	PIPE NIPPLE (150mm Long) SS 316 1/2" SCH80, PL x NPT(M)	140	No.'s	0.219	
9	PIPE NIPPLE (150mm Long) SS 316 1/2" SCH80, NPT(M) x NPT(M)	1250	No.'s	2.488	
10	ELBOW SS 316 1/2"NPT(F) X 1/2" NPT(F), CL3000	260	No.'s	0.476	
11	EQUAL TEE SS 316 1/2"NPT(F) X 1/2" NPT(F), CL3000	220	No.'s	0.548	
12	3-piece Union SS 316 1/2" NPT(F) x 1/2" NPT(F), CL3000	550	No.'s	1.663	
13	FEMALE CONNECTOR SS 316 1/2"NPT(F) x 1/2" OD TUBE, CL3000	35	No.'s	0.062	
14	TUBE (SMLS) SS 316L 1/2" OD X 2.1 mm	240	No.'s	0.624	
15	MALE CONNECTOR SS 316 1/2"NPT(M) x 1/2" OD TUBE, CL3000	110	No.'s	0.148	

	Price Bid format [for Mandatory spares]	Annexure-[B] of PY 56311			
	Field Instrument and Hookup Materials	Rev 00			
	Project: 3x800MW NTPC Patratu TPS				
BHEL Material code PY9756311037					
S. No	Type of instrument	Supply Quantity	Units	Weightage (%) for Calculation of Line Item Prices by BHEL Weightage of each item /unit price fixing factor (Refer Note-7) (%)	Bidders Confirmation
1	Pressure Transmitter with 2-Vlv Manifold	3	No.'s	1.055	
2	Pressure Gauge with 2-Vlv Manifold	2	No.'s	0.04	
3	Diff Pressure Switch with 5-Vlv Manifold	2	No.'s	0.358	
4	Diff. Pressure Gauge (Bourdon Tube) with 5-Vlv Manifold	2	No.'s	0.36	
5	Level Transmitter (GUIDED WAVE RADAR), Range:0-15Meters	1	No.'s	1.053	
6	Flow Switch	2	No.'s	0.148	
7	Pressure Switch	2	No.'s	0.07	
8	PIPE NIPPLE (150mm Long) SS 316 1/2" SCH80, PL x NPT(M)	7	No.'s	0.011	
9	PIPE NIPPLE (150mm Long) SS 316 1/2" SCH80, NPT(M) x NPT(M)	65	No.'s	0.129	
10	ELBOW SS 316 1/2"NPT(F) X 1/2" NPT(F), CL3000	13	No.'s	0.024	
11	EQUAL TEE SS 316 1/2"NPT(F) X 1/2" NPT(F), CL3000	11	No.'s	0.027	
12	3-piece Union SS 316 1/2" NPT(F) x 1/2" NPT(F), CL3000	28	No.'s	0.085	
13	FEMALE CONNECTOR SS 316 1/2"NPT(F) x 1/2" OD TUBE, CL3000	2	No.'s	0.004	
14	MALE CONNECTOR SS 316 1/2"NPT(M) x 1/2" OD TUBE, CL3000	6	No.'s	0.008	

	Price Bid format [for Main supply+Mandatory spares]	Annexure-[B] of PY 56311
	PLC System	Rev 00
	Project: 3x800MW NTPC Patratu TPS	

Unit rates of main equipment for addition/deletion as per note-10 above

S. No	Item Description	Unit Rate (Rs.)	Remarks
1	PLC Controller		Note-11
2	Power Supply Modules		Note-11
3	Communication module		Note-11
4	Analog input module		Note-11
5	Digital Input Module		Note-11
6	Digital Output module		Note-11
7	21" TFT-LCD Operator work station [OWS] without software		Note-11
8	licensed Softwares		Note-11
9	Laser Printer (Colour) suitable for A4 size papers		Note-11
10	Engg station with all software required for programming.		Note-11
11	SER Cards		Note-11
12	All other Electronic modules		Note-11
13	Field Termination Board [FTB] for I/O Modules		Note-11
14	Network Items (Network switch / LIU unit / Transceiver / FO Patch		Note-11
15	Fiber Optic Cable		Note-11
16	2" rodent proof HDPE conduits		Note-11
17	Remote IO Panel		Note-11
18	UPS with Battery		Note-11
19	Interface cables with connecting plugs for each type of peripherals &		Note-11
20	Key Board & Cursor control devices + 24" LCD TFT Monitor		Note-11
21	MCB (Miniature case circuit Breaker)		Note-11
22	Fuses		Note-11
23	Racks for housing I/O & Processor modules		Note-11
24	Prefab inteconnecting cables with connectors		Note-11
25	Network communictaion cable with end connectors		Note-11
26	I/O bus cables with connectors for remote I/O units		Note-11
27	Fibre Optic cable convert / deconverter		Note-11
28	Cooling fans		Note-11
29	Loose connectors		Note-11
30	Relays		Note-11
31	Isolators		Note-11
32	Printer cartridges		Note-11
33	SMPS for printers		Note-11
34	SVGA cards for printers		Note-11
35	Read-write CD / DVD		Note-11
36	Blank CD / DVD		Note-11
37	Any other Erection / Commissioning material required for		Note-11
38	FO/RS485 converter		Note-11
39	Interposing Relays (IPRs)		Note-11
40	Terminal Blocks (For 100 terminals)		Note-11
41	Training (per manday charges)		Note-11
43	Field Junction Boxes		Note-11
44	Indication lamps of all types		Note-11
45	Bus coupler		Note-11

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	PLC System	Rev 00	
	Project: 3x800MW NTPC Patratu TPS		
Unit rates of main equipment for addition/deletion as per note-10 above			
S. No	Item Description	Unit Rate (Rs.)	Remarks
46	Interface cards		Note-11
47	Other Communication Devices		Note-11
48	CTs, CVTs, VTs, chokes, AC/DC isolators,		Note-11
49	Fuse free Circuit breakers		Note-11
50	Electronic modules of all types for 24V DC system		Note-11
51	Indicators		Note-11
52	Batteries		Note-11