

	<u>Notes for Price Bid format -PLC Package</u>		Annexure -[C] of PY 56216	
	<u>PLCs [BOP PLC + UB BMS PLC + HRSG BMS PLC]</u>		Rev 00	
	Project: STEAM AND POWER GENERATION PACKAGE, RFCL			
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.			
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 based on total landed cost to BHEL i.e considering the sub-total of [1], [2], [3], [4] & taxes/duties as applicable i.e. total prices of Sl. No. A,B,C,D, E,F & H.			
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	The total supervision of erection & commissioning charges should be minimum 10% of the total quoted price of the supply package excluding taxes and duties, failing which break up of prices shall be adjusted accordingly for evaluation & ordering			
7	Per diem charges shall be applicable from the day bidder's person reaches site, up to the day he leaves the site.			
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	Deleted			
11	Unit Rates for Items specified in this Annexure (C) of PY 56216 have to be essentially quoted. Vendor's offer will NOT be evaluated without unit rates.			
12	The total PWAMC charges should be minimum 30% of the total quoted price of the supply package excluding taxes and duties, failing which break up of prices shall be adjusted accordingly for evaluation & ordering			
13	SIL Study requirement may get deleted. Hence, bidder is requested to provide the price break-up for SIL study so that this price breakup shall be used for deletion of SIL study during order execution.			
14	PWMC will be ordered by end user [RFCL] (OR) BHEL after expiry of defect liability / warranty period. The terms & conditions of this contract shall be applicable & transferred to RFCL / BHEL for them to place order directly. PWAMC prices shall be valid upto execution of PWAMC contract			
15	The price offer (which was submitted along with enquiry) of PWAMC shall be submitted by bidder in separte letter head along with terms & conditions during order execution so that the same shall be handed over to RFCL / BHEL for P.O. placement.			
16	Recommended spare list with price for 2 years operation after warranty (as recommended by OEM) shall be furnished. If required same shall be ordered separately by RFCL / BHEL. Price shall be valid till expiry of warranty period.			
17	Insurance is by BHEL.			

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S. No	Item Description	Quantity [I]	UNITS	Unit Rate (Rs.) [II]	TOTAL PRICE (Rs.) [I*II]	REMARKS
[A] HRSG BMS PLC - Supply, Design, Engg, Testing & Training - BOM for Material Code - PY9756216050 [MAIN SUPPLY]						
1	HRSG BMS PLC Pkg as per PY56216 and its annexures	1	Set			
[B] UB BMS PLC - Supply, Design, Engg, Testing & Training - BOM for Material Code - PY9756216026 [MAIN SUPPLY]						
1	UB BMS PLC Pkg as per PY56216 and its annexures	1	Set			
[C] BOP PLC - Supply, Design, Engg, Testing & Training - BOM for Material Code - PY9756216000 [MAIN SUPPLY]						
1	BOP PLC Pkg as per PY56216 and its annexures	1	Set			
MAIN SUPPLY Total prices (Sub-total of [A] + [B] + [C]) (Rs.) ::						----- [1]
[D] Supervision of Erection & Commissioning for all PLCs including SAT - BOM for Material Code - PY9856216036 [Vendor Services]						
1	Supervision of Erection & Commissioning Services charges at site including lodging, boarding, local travel, insurance, etc. [Unit Rate = Per man day charges]	180	Days			Note-6
2	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]	20	Visits			Note-6
Vendor SERVICES Total prices (Sub-total of [D]) (Rs.) ::						----- [2]
[E] MANDATORY SPAREs for all PLCs - BOM for Material Code -PY9756214023 [Mandatory Spares]						
1	Mandatory Spares for BOP PLC + HRSG BMS PLC + UB BMS PLC (Common for all PLCs)	1	Set			
Mandatory Spares Total prices (Sub-total of [E]) (Rs.) ::						----- [3]
[F] Post Warranty Annual Maintenance Contract [PWAMC] for all PLCs [BOP PLC + HRSG BMS + UB BMS PLC] as per PY56216						
1	1st Year AMC Charges	1	Set			Note-12, 14 &15
2	2nd Year AMC Charges	1	Set			Note-12, 14 &15
3	3rd Year AMC Charges	1	Set			Note-12, 14 &15
4	4th Year AMC Charges	1	Set			Note-12, 14 &15
5	5th Year AMC Charges	1	Set			Note-12, 14 &15
Mandatory Spares Total prices (Sub-total of [F]) (Rs.) ::						----- [4]
Total of Basic prices ([1] + [2] + [3] + [4]) (Rs.) ::						
[G] RECOMMENDED SPARES FOR TWO YEARS OPERATION & MAINTENANCE : [Optional Offer] (not for evaluation)						
1	Spares recommended for two years operation & maintenance for all PLCs shall be separately quoted by bidder.	1	Set			Note-16
[H] TAXES & DUTIES						
1	Freight charges to be quoted extra (in case inclusive in basic price, kindly mention % of basic price or the value)					Indicate % of basic price or value.
2	Insurance			N.A.		by BHEL
3	Packing & forwarding					indicate value
4	Excise duty		%			indicate value
5	CST / VAT		%			indicate CST or VAT whichever is applicable
6	Service Tax		%			indicate value
7	Any other taxes & Duties (as applicable)					

		Price Bid format -Unit Rates Addition/deletion/reduction		Annexure -[C] of PY 56216	
		PLCs [BOP PLC + UB BMS PLC + HRSG BMS PLC]		Rev 00	
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S. No	Item Description	Unit Rate (Rs.)	REMARKS		
PLCs :: Unit rates of main equipment for addition/deletion/reduction as per note-4 above					
1	PLC System Modules		Note-11		
1.1	Controller Module		Note-11		
1.2	Power Supply Module		Note-11		
1.3	I/O Communication Module		Note-11		
1.4	I/O Rack		Note-11		
1.5	Chassis for I/O rack		Note-11		
2	PLC I/O Modules		Note-11		
2.1	Analog Input card		Note-11		
2.2	Analog Output card		Note-11		
2.3	Digital Input Card		Note-11		
2.4	Digital Output Card		Note-11		
2.5	RTD Input card		Note-11		
2.6	Thermocouple input card		Note-11		
2.7	Serial Interface Card		Note-11		
3	PLC Field Termination Board (FTB) for I/O Modules		Note-11		
3.1	Analog Input card FTB		Note-11		
3.2	Analog Output card FTB		Note-11		
3.3	Digital Input Card FTB		Note-11		
3.4	Digital Output Card FTB		Note-11		
3.5	RTD Input card FTB		Note-11		
3.6	Thermocouple input card FTB		Note-11		
4	Operator Station (OWS) with all software & licences as per specification		Note-11		
5	licensed Softwares		Note-11		
6	Engineering Station (EWS) with all software & licences as per specification		Note-11		
7	All kinds of Communication Cables (Unit rate/meter)		Note-11		
8	All kinds of System Cables (Unit rate/meter)		Note-11		
9	All kinds of Prefab Cables (Unit rate/meter)		Note-11		
10	Fibre Optic cable (Unit rate/meter)		Note-11		

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S. No	Item Description	Unit Rate (Rs.)		REMARKS	
11	Barriers/Converters			Note-11	
11.1	Analog input barrier			Note-11	
11.2	Analog output barrier			Note-11	
11.3	Proximity converter with barrier			Note-11	
11.5	RTD Input converter			Note-11	
11.6	Thermocouple input converter			Note-11	
11.7	Signal Multiplier			Note-11	
11.8	HART Multiplier			Note-11	
11.9	Analog input barrier cum multiplier			Note-11	
11.10	Trip amplifier			Note-11	
11.11	FO/RS485 converter			Note-11	
12	Printers			Note-11	
12.1	Color laser printer (A3 size)			Note-11	
12.2	B/W laser printer (A3 size)			Note-11	
12.3	Printer cartridges			Note-11	
12.4	SMPS for printers			Note-11	
12.5	SVGA cards for printers			Note-11	
13	Furniture			Note-11	
13.1	Executive chair			Note-11	
13.2	Table for PC			Note-11	
13.3	Table for Printer			Note-11	
14	Training			Note-11	
14.1	Hardware and software maintenance training at vendor work's (Unit rate = for 1 person/7 working days)			Note-11	
14.2	Operation training at vendor work's (Unit rate = for 1 person/7 working days)			Note-11	
14.3	Site training at site (Unit rate = for 1 person/7 working days)			Note-11	
14.4	All other Electronic modules			Note-11	
15	Miscellaneous			Note-11	
15.1	RS232/RS485 converter			Note-11	
15.2	Interposing Relays (IPRs)			Note-11	
15.3	Terminal Blocks (For 100 terminals)			Note-11	

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S. No	Item Description	Unit Rate (Rs.)		REMARKS	
15.4	PC with latest configuration			Note-11	
15.6	Network Items (Network switch / LIU unit / Transceiver / FO Patch card, etc .)			Note-11	
15.7	2" rodent proof HDPE conduits			Note-11	
15.8	Key Board & Cursor control devices + 24" LCD TFT Monitor			Note-11	
15.9	MCB (Miniature case circuit Breaker)			Note-11	
15.10	Fuses			Note-11	
15.11	Cooling fans			Note-11	
15.12	Loose connectors			Note-11	
15.13	Auxiliary Relays			Note-11	
15.14	Isolators			Note-11	
15.15	Read-write CD / DVD			Note-11	
15.16	Blank CD / DVD			Note-11	
15.17	Any other Erection / Commissioning material required for completeness of system			Note-11	
15.18	FO/RS485 converter			Note-11	
15.19	Training (per manday charges)			Note-11	
15.20	Indication lamps of all types			Note-11	
15.21	Bus coupler			Note-11	
15.22	Interface cards			Note-11	
15.23	Other Communication Devices			Note-11	
15.24	CTs, CVTs, VTs, chokes, AC/DC isolators, contactors, timers			Note-11	
15.25	Fuse free Circuit breakers			Note-11	
15.26	Electronic modules of all types for 24V DC system			Note-11	
15.27	Indicators			Note-11	
15.28	SIL Study as per S.No. [C]. [22] of Annexure-[A] of PY56216			Note-11 & 13	