

Title	Enquiry No. I-IEN21003 dated 24.05.2021 for Development of PLC based slow control system for RF Source
Sub Title	PART-B: Price Bid Format

ITER-India, Institute for Plasma Research
Block A, Sangath Skyz, Bhat-Motera Road, Koteswar,
Ahmedabad 380005, Gujarat, India





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PART-B: PRICE BID FORMAT

This tender is for Development of PLC based slow control system for RF Source. Bidders shall quote the price in the following Price Bid Format.

A. Price Bid format (Price breakup):

Sr. No.	Item Description	Siemens Part number as given in the enquiry	Siemens part number offered by Bidder	Qty	Price offered by Bidder		
					Price (INR)	Discount (%) ref.: IO agreement no. 6000000018 & Siemens contract no. GA1600000538	Final price after discount (INR)
1.	PLC Hardware items						
A	SIMATIC PM 1507 24 V/8A stabilized power supply for SIMATIC S7-1500 <ul style="list-style-type: none">Input:120/230V ACOutput: 24 VDC /8A	6EP13334BA00		1 No.			
b	SIMATIC S7-1500, CPU 1516-3 PN/DP <ul style="list-style-type: none">Central processing unit (CPU) with working memory 1MB for program & 5MB for Data1.Interface: Profinet IRT with 2 port switches	6ES75163AN010AB0		1 No.			



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	<ul style="list-style-type: none">2. Interface: Profinet RT3. Interface: Profibus10ns Bit performance						
C	SIMATIC S7-1500, Mounting rail 482 mm (approx..19 inch) <ul style="list-style-type: none">incl. grounding elementIntegrated DIN rail for mounting of small components such as clamps, fuses or relays	6ES75901AE800AA0		1 No.			
D	SIMATIC S7-1500, Mounting rail 830 mm <ul style="list-style-type: none">incl. grounding elementIntegrated DIN rail for mounting of small components such as clamps, fuses or relays	6ES75901AJ300AA0		1 No.			
E	SIMATIC ET 200MP, IM155-5 PN HF Profinet interface module <ul style="list-style-type: none">Integrated power supplyMaximum 30 I/O modules can be connected in one rackInterface: RJ 45No of ports: 2	6ES71555AA000AC0		1 No.			
f	SIMATIC S7-1500, Digital input module,	6ES75211BL000AB0		6 Nos.			



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	<ul style="list-style-type: none">• 32 channels with 24V• Input delay 0.05 to 20ms configurable;• Diagnosis provided by LED indication for supply voltage, Error display, channel status						
G	SIMATIC S7-1500, Digital output module, <ul style="list-style-type: none">• 32 channels with 24VDC having 0.5A each channel• Diagnosis provided by LED indication for supply voltage, Error display, channel status	6ES75221BL010AB0		4 Nos.			
h	SIMATIC S7-1500, Analog input module, <ul style="list-style-type: none">• 8 channels for current measurement• 8 channels for voltage measurement• 4 channels for RTD measurements• 8 channels for thermocouple measurements• Channels should be configurable for	6ES75317KF000AB0		5 Nos.			



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	<p>current/voltage/RTD/TC type connection</p> <ul style="list-style-type: none">• 16 bits of resolution of ADC• Basic conversion time including parameterizable integration time (ms): 9/23/27/107 ms• Linearity error (relative to input range): +/- 0.02%• Diagnosis for supply voltage monitoring, LED indication for channels status display						
I	<p>SIMATIC S7-1500, Analog output module,</p> <ul style="list-style-type: none">• 8 channels for voltage• 8 channels for current• 16 bits resolution of DAC• Linearity error (relative to output range = +/-0.15%)• Settling time: 30μs for resistive load• Conversion time per channel: 50μs (independent of number of activated channels)	6ES75325HF000AB0		1 No.			



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	<ul style="list-style-type: none">Diagnosis for supply voltage monitoring, LED indication for channels status display						
j	SIMATIC S7-1500, Front connector <ul style="list-style-type: none">screw-type terminal40-pin with 4 jumpers & cable straps	6ES75921AM000XB0		20 Nos.			
K	SIMATIC S7-Memory card for S7-1X00 CPUs/SINAMICS <ul style="list-style-type: none">3.3V FLASH24 MB	6ES79548LF020AA0		1 No.			
L	SIMOTICS S-1FK2 Servo motor <ul style="list-style-type: none">Static torque = 2.4 NmRated power = 0.75 kWRated Speed = 3000 rpm	1FK2204-5AF10-1MA0		10 Nos.			
M	SINAMICS S210 Servo drive controller <ul style="list-style-type: none">Communication: ProfinetStandard Digital Inputs: 5	6SL3210-5HB10-4UFO		10 Nos.			
N	MOTION-CONNECT 500, 20 m <ul style="list-style-type: none">Single prefabricated cable for servo motor and controller communication	6FX5002-8QN08-1BA0		10 Nos.			
O	IE FC TP Standard Cable GP2x2 (sold by meter)	6XV18402AH10		25 Nos.			
P	IE FC RJ45 Plug 145 (1 pack = 50 items)	6GK19011BB300AE0		1 No.			



Q	PSU100S, 1Φ, 24VDC/20A	6EP13362BA10		1 No.			
R	SINAMICS SD card	6SL30544FC002BA0		1 No.			
	Sub total						
2.	PLC software items						
A	SIMATIC STEP 7 Prof. V16 <ul style="list-style-type: none">• Floating License;• Engineering Software in TIA Portal;• SW & documents on DVD;• License key on USB flash drive;• Executable in Windows 7 (64-bit), Windows 10 (64-bit), Windows Server 2012R2 (64-bit), Windows Server 2016/2019 (64); for configuration of SIMATIC S7-1200/1500, SIMATIC S7-300/400/WinAC• SIMATIC Basic Panels Content: Set (4x DVD + 1x USB)	6ES78221AA060YA5		1 No.			
B	SIMATIC OPC UA S7-1500 medium (CPU-1515 / CPU-1516 (F)) <ul style="list-style-type: none">• Single Runtime License, contains license certificate for	6ES78230BA001CA0		1 No.			



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	OPC UA server and OPC UA client Class A <ul style="list-style-type: none">• Executable on all ET 200SP CPUs, S7-1500 up to CPU-1516 Content: Certificate of License						
C	SIMATIC WinCC Runtime Advanced 512 power tags V16 R-SW in TIA portal	6AV21040DA060AA0		1 No.			
D	SIMATIC WinCC Advanced V16 Engineering software in TIA portal	6AV21020AA060AA5		1 No.			
	Sub total						
3	I&C Racks and accessories	NA		2 set			
4	Developmental cost for application program	NA		1 set			
5	Installation, Testing and training	NA		1 set			
6	Other items (if any)	NA					
	Final Total						

Note:

- 1. Price to be quoted by bidders in line with Siemens & IO agreement No. 6000000018 (Contract No. GA1600000538)**
2. If any other accessories required, which are not listed in the Price Bid format (Sr. 1 &2), then offer the bid for such accessories (with part no.) under **'other items' Sr. No. 6** in the price bid.
3. Siemens part number of all offered items must be provided in the bid. If Siemens has upgraded/changed part number of any items, then those items shall be offered in the bid with upgraded details.
4. Quoted price should be in INR only. Percentage wise cost will not be considered.
5. Splitting of Purchase Order is not applicable.
6. L1 bidder will be derived based on Final Total Price plus applicable taxes & duties and any other charges, if applicable.



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7. In case of deviation in payment terms including demand of advance other than specified in payment schedule and accepted by ITER-India, interest at the rate of Benchmark Prime Lending Rate (BPLR) of SBI prevailing on the date of PART-A opening will be loaded for price comparison purpose.
8. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.
9. Unit rate/s should be valid throughout the validity of Purchase Order for addition/deletion purposes. The quoted price should not be subject to price escalation for whatsoever reasons. The quoted price shall be firm, fixed, and non-revisable during the validity/ extended validity of Purchase Order.
10. The delivery shall be based on FREE DOOR DELIVERY to Purchaser's site
11. The bid shall include cost of loading, transport, transit insurance (against all risks of loss or damage during the transport), unloading and shifting of all the items within Purchaser's site, i.e. ITER-India Building, IPR, unpacking, assembly & installation, testing and entire scope of work and deliverables as per Part-A(II) of this enquiry.
12. Each page of price bid format shall be signed and seal to be put on each and every page
13. Each Party shall bear their own expenses for visit to other Party's end concerning execution of the order/contract

B. Compliance with Commercial Terms, Taxes and Duties (This needs to be filled up as offered in Part-B Price Bid format)

Particulars	Compliance
Delivery Basis: Free Door Delivery to On-Site- Delivery address as per 1.11.2.2 of PART A(III) (including packing, forwarding, freight & transit insurance)	Yes / No (In case of No, details of deviation to be specified)
Goods and Service Tax & Customs Duty - Not to be included in the quoted Price	Yes / No (In case of No, details of deviation to be specified)
Goods and Service Tax - ITER-India, IPR is entitled to avail concessional rate of GST@5% on supply of Items as per clause no. 1.8.3.3 of Part- A(III).	Confirm 5% applicable against exemption certificate from ITER-India, IPR
Customs Duty: ITER-India is exempted from payment of Customs Duty. Hence, Custom Duty payable in India should not form a part of the bid (Applicable for import material cleared in India).	Yes / No (In case of No, details of deviation to be specified)



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Committed delivery period – Tender delivery period as per clause no. 1.5.2. of Part-A(III) will apply	Yes / No (In case of No, details of deviation to be specified)
Bid Validity Period - 120 days from date of opening of Part-A	Yes / No (In case of No, details of deviation to be specified)
Payment Terms- ITER-India Payment terms as per clause no. 1.8.4.2 of Part-A(III) will apply	Yes / No (In case of No, details of deviation to be specified)
Warranty as per clause no. 1.16.1 of Part-A(III) will apply	Yes / No (In case of No, details of deviation to be specified)
Submission of Security Deposit, Advance and Performance Bank Guarantees as per tender	Yes / No (In case of No, details of deviation to be specified)

Bidder Signature		
Name of the signatory & Title	Name	Title
Bidder's Official seal		
Place & Date	Place	DD-MM-YYYY