Institute for Plasma Research (An Autonomous Institute of Dept. of Atomic Energy) Bhat, Gandhinagar

	Eligibility Criteria (Part-1 (A))				
ITEM DESC RIPTI ON	Pabrication, assembly, testing and supply of Corrugated bend and Converter				
SI. No.	PARTICULARS	REMARKS			
ı	Name of the Vendor				
II	IPR Enquity NO & Date	IPR/TN/PUR/ET/8/15-16 Dated 18/03/2016			
Ш	Vendor Offer No & Date				
Si. No.	Criteria	Documents required to upload	Status of Documents (Uploaded/ Not- Uploaded in e-Tender Portal)		
1	Vendors registered in India for last five years with full company profile and a fabricator or manufacturer	Company profile and other supporting documents like copy of Registration Certificate			
2	The vendor must have past experience in precise profile machining and fabrication of component for specialised applications	Copy of relevent Purchase Order received and executed along with its technical details			
3	Past performance of precise component fabrication job executed having single valued order of more than 30Lacs	Copy of relevent Purchase Order received and executed along with its technical details. Completion/Installation certificate to be provided			
4	Vendor must have facilities or access to test facilities for profile measurement, dimensional, pneumatic and hydro test of component	Relevent documents to be uploaded			
5	Vendor must have manufacturing facilities or access to manufacturing facility to carry out highly precise profile machining of the components	Relevent documents to be uploaded			
6	Average Annual turnover of the vendor for the last three years should be at least Rs.1.2 Crore and above	The copies of Audited Annual Accounts/Balance Sheet along with Profot and Loss Account or CA Certified Statement for last three financial years			

Note:

- No Consortium will be allowed. The bidder must meet all the eligibility criteria by itself.
 The response to tender without submission of proof of above points will summarily be rejected without further communication.

Institute for Plasma Research (An Autonomous Institute under Dept. of Atomic Energy) Bhat, Gandhinagar

TECHNICAL SPECIFICATIONS (Part-1 (B))

ITEM	Fabric	Fabrication, assembly, testing and supply of Corrugated bend and Converter	
DESCRIP			
TION			
Name of V	/endor		
IPR Enqu	iry No and Date	No and Date IPR/TN/PUR/ET/8/15-16 Dated 18/03/2016	
Vendors (ffer No and date		

r.No	Particulars	IPR Requirement	Vendor's specification	Remarks	
1	Component Requirement	ii k kequirement	venuor's specimeation	Remarks	
1.1	component Requirement				
1.1	Assembly of Corrugated Bend	01No.			
1.2	Assembly of Convertor	04Nos.			
1.3	Prototype for Corrugated bend	01No.			
1.5	Trototype for Corrugated bend	01110.			
2	Spares				
2.1					
	For Corrugated Bend	00 4			
2.1.a	Gaskets	02 set			
2.1.b	Set of Hardwares including nut				
	bolts, Heli coil inserts, washers	01 set			
	and dowel pins				
2.2	For Converter				
2.2.a	Gaskets	02 set			
2.2.b	Set of Hardwares including nut				
	bolts, Heli coil inserts, washers	01 set			
	and dowel pins				
3	Material	•	·		
3.1		Ali-i ASME 6061			
	Bend and Converter	Aluminium as per ASME 6061-			
		T6 Grade or Equivalent			
3.2	Fastners or Hardware	Non Magnetic SS 304L			
3.3	Gasket Material	Viton + BeCu			
3.4	Cooling tubes for Converter	Copper			
4	Dimensional Tolerances	Toopper			
4.1	Inner Profile Accuracy	±50 Micron			
4.2	Inside Surface Finish	3Delta or Better			
4.3	Component Matching Surface	≤ 0.06Micron			
4.3	Finish	≤ 0.06Micron			
5	Drawings				
5.1	Main Component Assembly	STC/IPR/CEA/DEV_OWGC_LH_			
		1.A3. Sheet 01 of 07			
5.2	Corrugated Bend Assembly	STC/IPR/CEA/DEV_OWGC_LH_			
	Corrugated Bend Assembly	1.A3. Sheet 02 of 07			
5.3	Component Details	STC/IPR/CEA/DEV_OWGC_LH_			
	Component Details	1.A3. Sheet 03 of 07			
5.4		STC/IPR/CEA/DEV_OWGC_LH_			
	Component Details	1.A3. Sheet 04 of 07			
5.5		STC/IPR/CEA/DEV_OWGC_LH_			
		1.A3. Sheet 05 of 07			
	Convertor Assembly				
	-				
5.6		STC/IPR/CEA/DEV_OWGC_LH_			
-	Component Details	1.A3. Sheet 06 of 07			
5.7		STC/IPR/CEA/DEV_OWGC_LH_			
0.1	Component Details	1.A3. Sheet 07 of 07			
6	Acceptance Criteria				
6.1	•				
0.1	Acceptance Test at Vendor Site				
6.1.1		Daniel de de la constante de l			
0.1.1	Down motorial to-t	Raw material testing and its			
	Raw material test	approval from IPR befor start			
<i>c</i> 1 1		fabrication			
6.1.1.a	Raw material test	Visual inspection by IPR			
		representative			
6.1.1.b		Ultrasonic test			
6.1.1.c		Mechanical Test- tensile,			
	Raw material test	bending and hardness testing			
	Naw Illaterial test	from Govt. Approved LAB.			
		nom dove. Approved LAD.			
6.1.1.d	Down motori-1 tt	Chemical testing from Govt.			
	Raw material test	Approved LAB.			
6.1.2		**			
		Corrugated Bend Prototype			
		Fabrication, Assembly, testing			
	Prototype for Corrugated bend	and its approval from IPR.			
		i l			

6.1.2.a	Prototype for Corrugated bend Test-1	Visual test	
6.1.2.b	Prototype for Corrugated bend		
	Test-2	Dimensional test	
6.1.2.c	Prototype for Corrugated bend	Inner Profile measurement test	
6.1.2.d	Test-3 Prototype for Corrugated bend		
0.1.2.0	Test-4	Pressurisation test	
6.1.3	Test Before Assembly		
6.1.3.a	Test-1	I. Component Inner profile	
		testing: Before assembling of the component, inner profile of each	
		section of the component will be	
		checked using CMM or VMM	
		and the actual profile should be within the acceptable limit.	
		within the deceptable innit.	
6.1.3.b	Test-2	II. Dimensional Test	
6.1.3.c		III. Surface finish: Inner profile	
	Test-3	surface finish and matching	
6.1.3.d	Test-4	surface finish IV. Visual Test	
6.1.4	Test after assembly	IV. Visual Test	
6.1.4.a	Test-1	I. Visual Test	
6.1.4.b	Test-2	II. Dimensional Test	
6.1.4.c	Test-3	III. Pneumatic Test : All component assembly have to be	
		tested at a test pressure of 4Bar	
		gauge using dry air or Nitrogen	
		gas and partially filled with helium gas. Leak will be checked	
		through HLD sniffing technique	
		and measuring pressure drop	
		over a period of 24hours. The allowable leak rate in sniffing	
		mode is 1x10-5mbar litre per	
		second. The pressure drop	
		should not exceed the limit of 0.1bar over a period of 24hour.	
		There should not be any visible	
		leak while testing.	
6.1.4.d	Test-4	IV. Hydro-test of cooling lines (For Converter Cooling Channel	
		only):Cooling lines of convertor	
		parts will be tested for hydro test	
		at 13Bar Gauge pressure. All joints must be water tight; there	
		should not be any visible leak	
		during the test period of around	
		2hours. After hydro test cooling lines must be dried off and	
		plugged	
6.2		Final Acceptance Test will be	
	Acceptance Test at IPR	carried out at IPR as per Sr. No.	
	-	6.1.4 section for Test after assembly	
6.3		,	
		Vendor should provide test certificates for Genuine Vition	
	Gasket Material	and chemical composition for	
		BeCu material	
6.4		Vendor should provide test	
	Fastners or Hardware	certificate for chemical	
7		composition Components outer surface to be	
'	Surface Treatment	black anodized	
8	Scope of Works		
8.1		(1) Material Procurement	
8.2 8.3		(2) Raw Material inspection (3) Materials Approval from IPR.	
0.5		(c) materials ripproval from IFK.	
8.4		(4) Generation of Fabrication	
		drawing and its approval from	
0 F		IPR.	
8.5		(5) Components and prototype Fabrication	
L	ı		

	7		
8.6		(6) Component and prototype Assembly and testing	
8.7	1	(7) Inspection at vendor site as mentioned in Sr. No. 6.1 Acceptance test at vendor site	
9	Fabrication Procedure	As mentioned in annexure-1	
10	General Terms and Condition	section 2	
		1/ > ** 1 1	T
10.1		(a). Vendor has to submit the raw material test certificates at IPR before starting fabrication works for its approval	
10.2	-	(b). All the materials to be used should be of good quality and free from any defects.	
10.3		(c) Vendor is solely responsible for Material test and component fabrication	
10.4		(d). Vendor has to give the inspection call for stage wise inspection of the job by IPR representatives as outlined in time schedule	
10.5		(e). The vendor has to arrange for the entire required test	
10.6		(f). A prototype for bend has to be first checked at vendor site and further sent to IPR for its dimensional, profile measurement and visual check for approval for component fabrication.	
10.7		(g). Components assembly with all accessories have to be delivered to IPR only after receiving the pre-dispatch clearance from IPR	
10.8		(h) IPR representative will give final acceptance only after successful completion of all measurements and inspection at IPR site	
10.9		(i)Final Component assembly has to be suitably tag marked as per the information provided by IPR	
11	Packing and Supply at IPR	As per the procedure mentioned in annexure-1	
12	Essential Requirements and		
	Other Criteria Criteria 1	The Pre Dispatch Inspection to witness test mentioned in section (6.1) will be carried out at Vendor site before delivery at IPR.	
	Criteria 2	Reports for all tests mentioned in Sr.No. (6.1) should be sent to IPR for approval and dispatch clearance.	
13	Rejection	The material or component which will not conform to the above requirement will be rejected.	

Institute for Plasma Research (An Autonomous Institute of Dept. of Atomic Energy) Bhat, Gandhinagar

	Bhat, Gandhinagar			
	TERMS & CONDITIONS (Part-1 (C))			
ITEM ESCRIPTION	Fabrication, assembly, testing and supply of Corrugated bend and Converter			
SI. No.	PARTICULARS	REMARKS		
1	Name of the Supplier			
İ	IPR Enquity NO & Date	IPR/TN/PUR/ET/8/15-16 Dated 18/03/2016		
III	Vendor Offer No & Date			
V V	Postal address Contact with STD code			
V VI	Fax with STD code			
VII	Name of Contact person			
VIII	Mobile No.			
IX	e-mail ID			
Х	Currency of offer/quotation SCANNED COPY OF THE BELOW MENTIONED DOCUMENTS NEED TO	"YES" OR "NO"		
	UPLOAD AT www.tenderwizard.com/DAE AT THE TIME OF PARTICIPATION	TES OR NO		
	OF TENDER WITHIN THE PERIOD OF SUBMISSION.			
11	Certificates: i) Registration Certificate if Any, with DGS&D/NSIC/MSME			
	ii) PAN (Permanent Account Number) Registration			
	iii) Certificates of Registration for Sales Tax/ VAT/ WCT or Service Tax			
	iv) Authorization certificate/ Agency Agreement from Manufacturer (if not			
	manufacturer)			
	Commercial Terms for Quoted items (Please Provide Commercial terms and conditions in the below form)			
2	Price Shall be firm and fixed through out the currency of contract, in the event of			
	placement of purchase order.			
3	Please select the CURRENCY OF OFFER / QUOTATION first			
4	Packing & Forwarding			
5	Excise duty applicable (IPR is exempted payment of Excise Duty for items mentioned in the notification (wherever applicable) as per notification no. 10/97)			
6	Custom duty applicable (IPR is exempted payment of Custom Duty for items mentioned in the notification (wherever applicable) as per notification no. 51/96-Custom dated 23-7-1996 and can place order directly on foreign manufacturers)			
7	Sales Tax/ VAT/ CST			
8	Whether any transportation is involved, if so charges mentioned for the same?			
9	Insurance			
10	Service Tax			
11	Agency Commission (for Authorised agents of Foreign Supplier)?			
12 13	Delivery, Installation and commissioning/ Completion period Installation and commissioning charges (if applicable)			
14	Discount			
15	Liquidated Damages:- as per Sr. No. 9.2.1 of terms and conditions of Form No IPR-LP1 attached with the tender/enquiry			
16	Terms of Payment:- as per Sr. No.16 of Form No IPR-LP1 (Terms and			
17	Conditions) attached with the tender/enquiry Guaranty / Warranty:- 1 year warranty with on site support will be effective			
40	from the date on which IPR accepts the system. Validity of offer/quotation:- 120 days from the date of opening of tender			
18	QUESTIONNAIRE TO BE FILLED BY BIDDER IN AND SENT ALONG WITH			
19	OFFER DULY SIGNED In the event of a purchase order, and if you are not registered with DGS&D,			
	NSIC, MSME, Security Deposit in the form of Bank Guarantee for 10% of			
	contract/ order value from SBI/nationalized banks or any one of the scheduled			
	banks mentioned in the bracket (Axis Bank, HDFC Bank, ICICI Bank and IDBI			
	Bank) valid till final acceptance of the supplied goods at IPR, wherever applicable shall be submitted .			
20	In the event of a purchase order Performance Bank Gurantee for 10% of the			
	contract/order value from SBI/nationalized banks or any one of the scheduled			
	banks mentioned in the bracket (Axis Bank, HDFC Bank, ICICI Bank and IDBI			
	Bank) valid throughout the guarantee period, wherever applicable shall be			

21	I/We hereby offer to supply the stores detailed in the schedule hereto at the price given in the said schedule and agree to hold this offer open till expiry of	
	quotation. I/We shall be bound to supply the stores hereby offered upon	
	issue of purchase order communicating the acceptance thereof on or before the expiry of the last mentioned date. You will be at liberty to accept any one or more	
	of the items of stores tendered for or portion of any or more of the items of such	
	stores and I/We notwithstanding that the offer in the tender has not been	
	accepted in whole shall be bound to supply to you- such item or items and such	
	portion or portions of one or more of the items as may be specified in the said	
	Purchase Order communicating the acceptance.	
22	I/we have understood the General Conditions of all Contracts and special	
	conditions of contract governing supplies of plant and machinery in the Form No.	
	IPR-LP1, included in the General Conditions of all Contracts and special	
	conditions of contract governing of plant and machinery applicable to contracts	
	placed by the Institute for Plasma Research and the instructions to Tenderer	
	annexed to the invitation to tender Form and have thoroughly examined the	
	specification / drawing and / or pattern quoted or referred to in the Schedule	
	hereto and am/are fully aware of the nature of the stores required any my/our	
	offer is to supply stores strictly in accordance with subject tender to the terms	
	and conditions stipulated in your above Form No. IPR-LP1 and also contained	
	in the Purchase Order Communicating acceptance of this Tender.	
23	Whether All Documents Related to tender Viewed?	
24	In case of two part tender whether unpriced quotation has been uploaded (Failing	
	which offer will not be considered for technical evaluation)	

Institute for Plasma Research (An Autonomous Institute under Dept. of Atomic Energy) Bhat, Gandhinagar

PRICE SCHEDULE (Part - 2) IPR Enquiry NO & Date : IPR/TN/PUR/ET/8/15-16 Dated 18/03/2016 NAME OF THE CONTRACTOR : Offer no & date: Total Landed Value (Total Unit Cost x Item Description Tendered Unit of Please mention the Type of Currency Packing and Forwarding Customs Duty/ Excise VAT / CST Per Unit Total Unit Cost Freight Charges (if applicable) Per Unit Total Unit Cost Quantity Measu appropriate part no rement and accessories that Charges (if applicable) Per Unit Charges (if applicable) Duty Per Unit** applicable) (UOM are not listed for the) configuration of the system (in %) Basic Rate (in %) (in %) (in %) Charges Service Amount Charges Amount Discount Amount Amount Service Tax on Only Only Only Only Tax on Freight Freight charges charges in %) in %) only Fabrication, assembly, testing and supply of Corrugated bend as per ANNEXURE-1 and 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Corrugated users as parameters frawings.

2 Fabrication, assembly, testing and supply of Converter as per ANNEXURE-1 and 0.00 0.00 Converter as per ANNEXUR
Drawinos.

a Optional Item/ Accessories
b Optional Item/ Accessories
c Optional Item/ Accessories
d Optional Item/ Accessories
3 GRAND TOTAL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Place of Delivery: NOTES:

IPR Gandhinagar

1) If freight is not shown seperately it will be treated as "FREE DELIVERY"

2) Details specifications and scope of work are as per Attached Annexure

3) If the rate cells left blank, it will be treates as "0" (ZERO)

4) Vendor has to select "Type of currency", its mandatory

5) **As per notification No. 10/97 - Central Excise, Dated 01/03/1997, IPR is entitled to avail Excise exemption wherever applicable, so please do not include Excise Duty in your offer.

6) **IPR is exempted payment of Custom Duty as per notification no. 51/96-Custom dated 23-7-1996

7) Kindly enable the Macros if you receive the "Security Warning" message. (Click on options in "Security Warning" and select "Enable this content"

4.xis Price B