

# INSTITUTE FOR PLASMA RESEARCH

An Aided institute of department of Atomic Energy, Govt. of India)  
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## MINOR FABRICATION WORKS ENQUIRY

Office Copy

ENQUIRY NO :IPR/MFW/20-21/74

Date : 16-09-2020

**Due Date : 21-10-2020 13:00 IST**

Please send your offer in sealed envelope specifying Inquiry No, Date & Due Date, ALONG WITH your credentials for the following items:

Important Note:

Please note that e-mail quotations are not acceptable however you may send your queries (if any) to **jghosh@ipr.res.in**

Please Ensure that your sealed quotation reaches this office not later than above mentioned due date and time.

Kindly go through the following document properly before Quoting which are available on the IPR web portal i.e., <http://www.ipr.res.in/documents/tenders.html/> attached here with.

1. Technical specification as enclosed.
2. Instruction to the bidders & terms and Condition (refer Form NO:**IPR-MFW-01-V1**)
3. Bidding format(refer Biddingformat MFW-Bid.pdf)

GST fro Goods and Services (IGST/CGST/SGST TAX BENEFITS): PLEASE REFER clause no:8 of Form No:**IPR-MFW-01-V1**

QUOTATION SHOULD BE ADDRESSED TO **JOYDEEP GHOSH** ONLY.

Sr.No.	Description	Quantity	Rate
1	Fabrication, installation of copper bus bars of different dimensions, along with their support structures, bus bar isolaters, insulation of copper bus bars along with the supply of materials/auxiliaries (as mentioned in scope of work).	1	No.

### Free Issue Material

Sr.No.	Description	Quantity	Unit	Value
1	N/A	0.00	No.	0.00

Note : Please quote with complete technical details (Technical Compliance sheet and product data sheet)

Encl:As per attachment

Sd/-  
JOYDEEP GHOSH  
Associate Professor-F

## **SCOPE OF WORK FOR COPPER BUS BARS INSTALLATION, CONNECTION & ROUTING IN ADITYA HALL:**

- Copper bus bars fixed with proper supports and insulation (as per the drawing) to be installed in Aditya hall, IPR by vendor as specified in scope of work.
- Scope covers copper bus bars installation, connection, termination and routing on the available structures of Aditya Hall.
- Scope covers proper insulation of the bus bars, of which insulating materials will be provided by vendor only. The insulation of the copper bus bars will be done by the vendor in presence of the IPR personnel before installing the bus bars onto the provided structures of Aditya Hall.
- Copper cutting to make fingers/hole drilling/bolting of copper bus bars to join different sections as per requirement.
- Bolting of M.S section has to be performed with available support structure inside Aditya hall. M.S sections to be fixed on ADITYA hall wall with wall-fasteners of relevant size (M.S sections to be provided by IPR).
- Fixing of bus bar isolaters to hold the copper bus bar. Isolation of copper bus bars from support structures (M.S/Aluminium structures) should be done by the vendor with bus bar isolaters of proper dimensions.
- Aluminium section on the existing Aluminium support structure has to be fixed. Vendor has to drill the hole of suggested size on the existing Aluminium support structure. Vendor has to arrange the drill machines and required manpower. Vendor has to install electrical isolaters on the aluminium section and existing bus bars to install and fix the new copper bus bars.
- Materials (G-10/isolaters as mentioned in the scope of work) will be provided by vendor for proper isolation of the Copper Bus bars from MS Support structures and other installed structures.
- Sections of copper bus bars has to be joined by bolting using M8/M10 bolts as per available holes on bus bar sections.
- Holes on Copper bus bar has to be made by vendor at IPR, as per the locations of support/holes on MS support structure inside ADITYA hall.
- Alignment, bending (possibly L and C type) and orientation of copper bus bars has to be done as per details and specifications mentioned in DRAWING 1 and DRAWING 2.
- Peripheral (anchor-fasteners, nuts-bolts, drill machine and other necessary tools) has to be arranged by the vendor.
- Only Copper Bus bars, Aluminium support structure and M.S support structure will be provided by the IPR personnel at the site (Aditya Hall).

### **Insulation wrapping over Copper Bus bars (to be executed at IPR)**

- Vendor has to tightly wrap fibreglass tape manually over the Copper bus bars (one and half overlapping). Fibres glass tape section has to be knotted tightly at the end terminals of the bus bar.
- ELMO LUFT chemical has to be applied (2 layers atleast) over the bus bar covered with fibre glass tapes and allowed to be dried for 24 hours.

- Finally, red gel paint has to be applied (2 layers atleast) over the bus bar covered with (fibre glass tapes+ ELMO LUFT) and allowed to be dried for 24 hours.
- Available copper bus bars dimensions at IPR:  
35mm x 5mm (unit length: ~2 m )  
50 mm x 5 mm (unit length : ~2 m)

**REMARKS:**

- Installation shall be carried out in neat, workman like manner by skilled experience and competent workman in accordance with the standard practices.
- Method of installation, routing of copper bus bars shall be in every case be subject to the IPR's approval and the vendor shall have to modify or rectify at no extra cost to the any portion of the installation which do not meet with the IPR's approval. All damages to the civil and other works on this account shall have to be made good by the vendor at no extra cost to the IPR.
- During shifting/laying all civil work should be done in presence of IPR personnel.
- Care shall be exercised by providing suitable support for copper bus bars and during drilling of copper bus bar/support structures should be done with prior approval of IPR.
- Interested vendor/party should visit site first to understand the scope and deliverables of work.

**ACCEPTANCE TEST:**

Quality of supplied material (Bus bar isolaters/G10 Insulaters) will be inspected by the IPR personnel.

Visual Inspection (fitting, alignment and stability) of bus bar and their support structures by the IPR personnel will be performed.

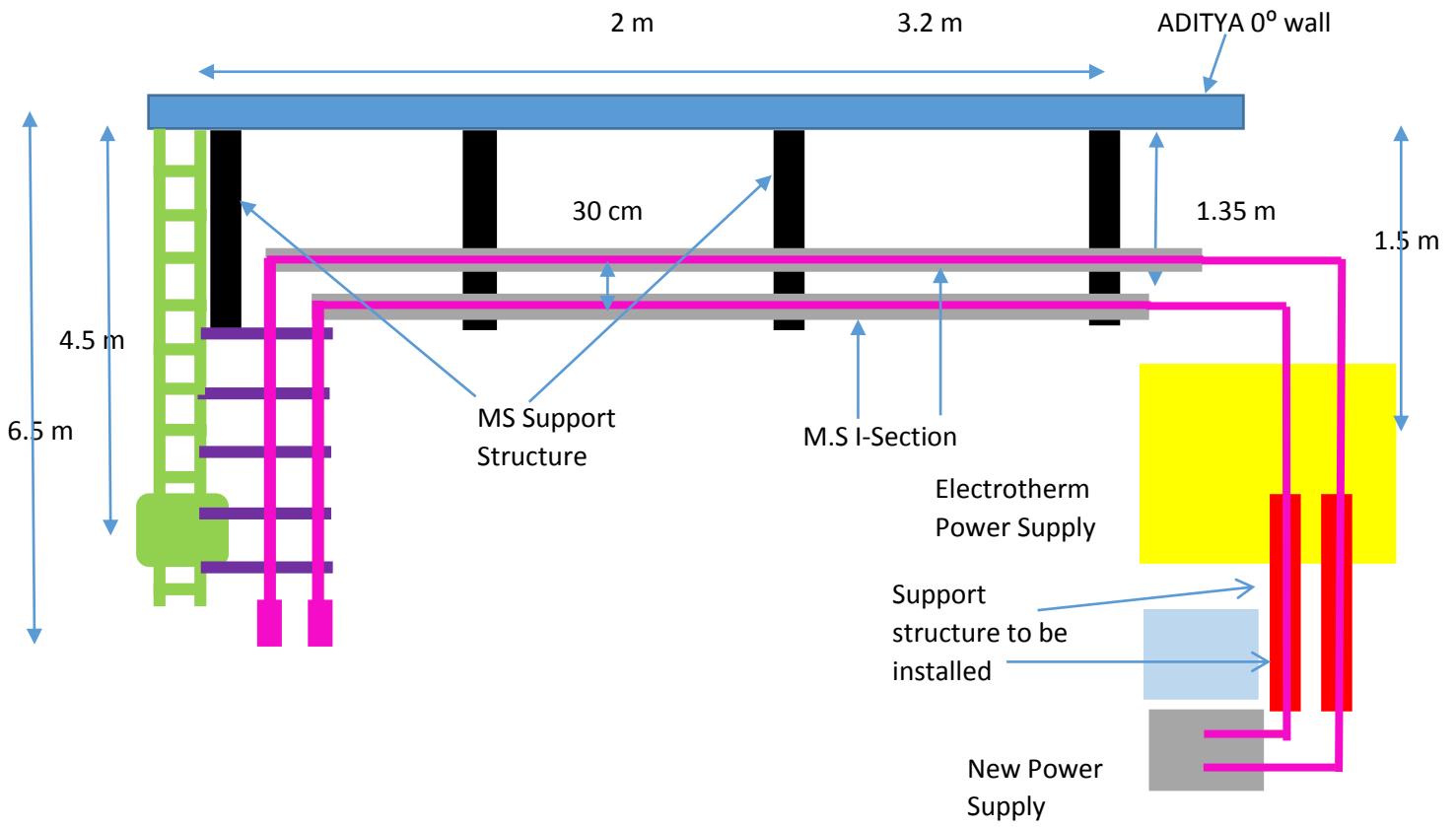
Insulation of the Copper bus bar w.r.t surrounding structure will be tested by the IPR personnel.

**Materials in the scope of work (to be arranged by Vendor only):**

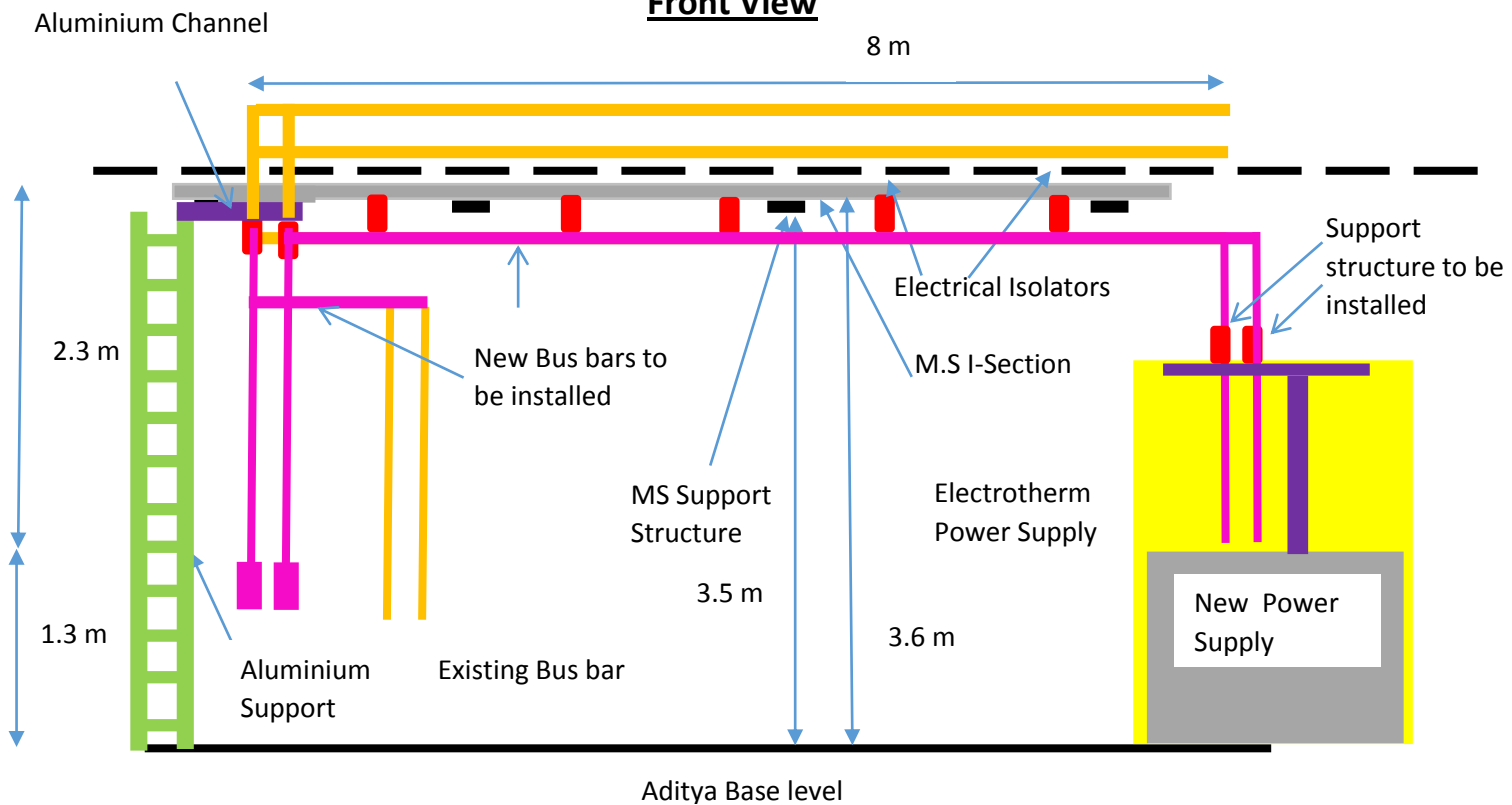
Sr No.	Materials	Specification	Quantity
1	Bus bar isolaters (M-10 bolts to fixed on both sides)	Length 130 mm, Voltage withstand capacity: 1.1 kV (continuous rating)	50 units
2	Bus bar isolaters (M-12 bolts to fixed on both sides)	Length 130 mm, Voltage withstand capacity: 1.1 kV (continuous rating)	50 units
3	Bus bar isolaters (M-10 bolts to fixed on both sides)	Length 50 mm, Voltage withstand capacity: 1.1 kV (continuous rating)	50 units
4	M-10 Studs	Length: 2.5 inch	50 units
5	M-12 Studs	Length: 1.5 inch	50 units
6	M-12 Studs	Length: 4 inch	50 units
7	M-12 Bolts	Length: 1 inch	50 units
8	M-12 Bolts	Length: 1.25 inch	50 units
9	G10 insulator	6 “ x 12 “ thickness: 12 mm	24 units
10	Wall Fasteners	12 mm size Length: 7 inch	20
11	M.S Pipe	C/S: 50 mm x 50 mm Thickness: 2 mm Length: 6 m With coating of Red oxide and red colour paint	2 units
12	Insulation Material	Fibre glass tape Size:1 inch	15 rolls
		ELMO LUFT Chemical Hardener EH 411(pair of box) Manufactured by ELANTAS or any equivalent brand	4 Litres
		Epoxy GEL COAT (Red) Manufactured by ELANTAS or any equivalent brand	4 Litres
		Paint brush	5

# DRAWING 1

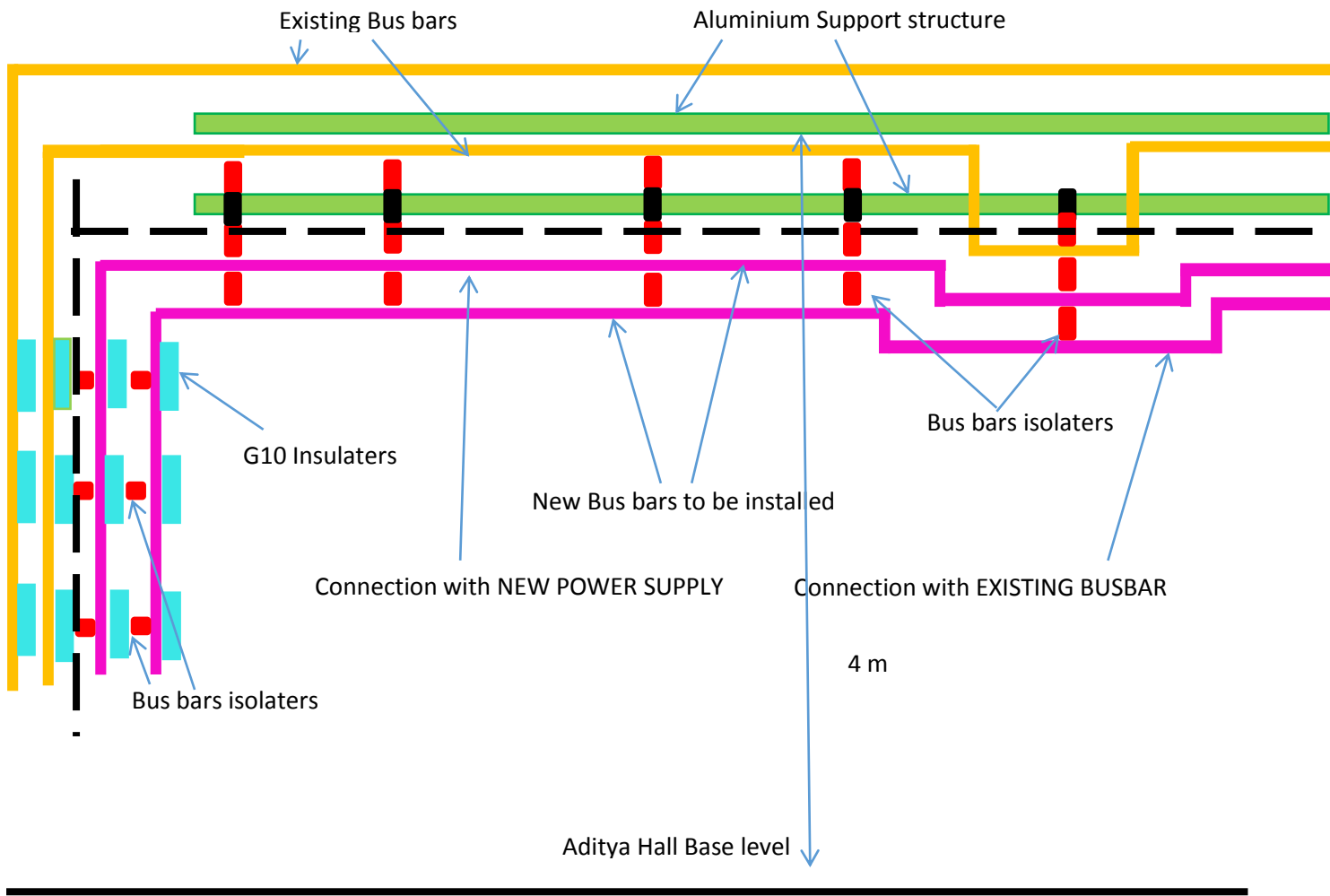
## Top View



## Front View

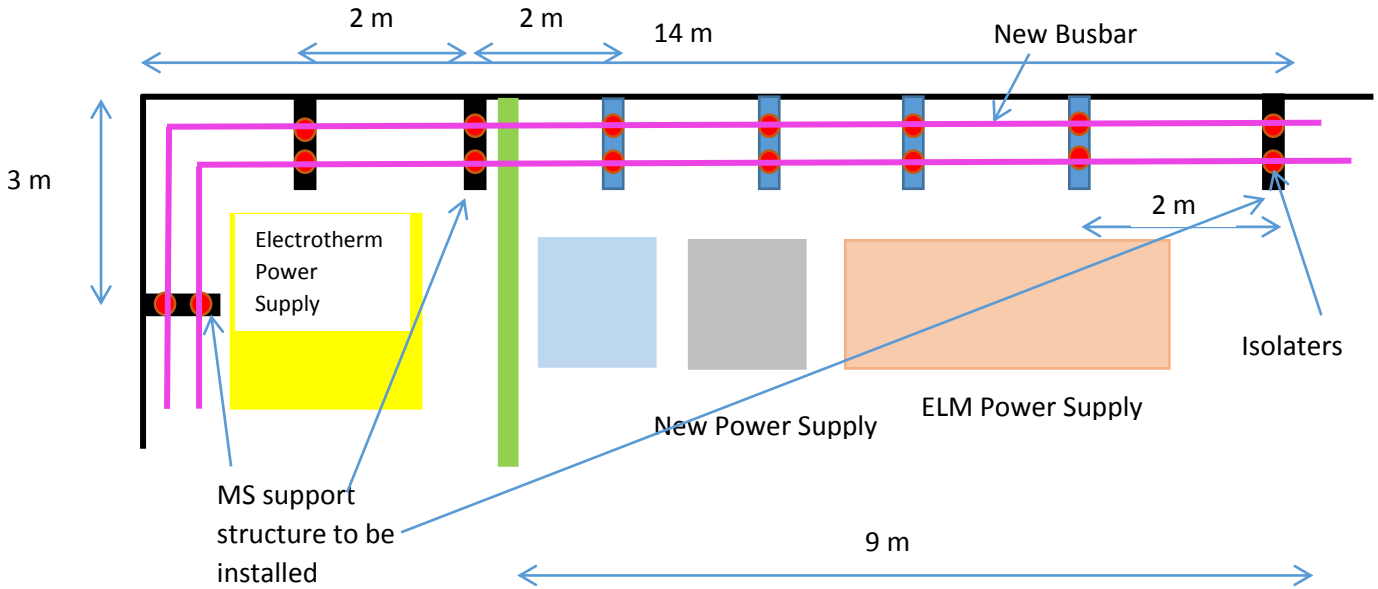


## Side View

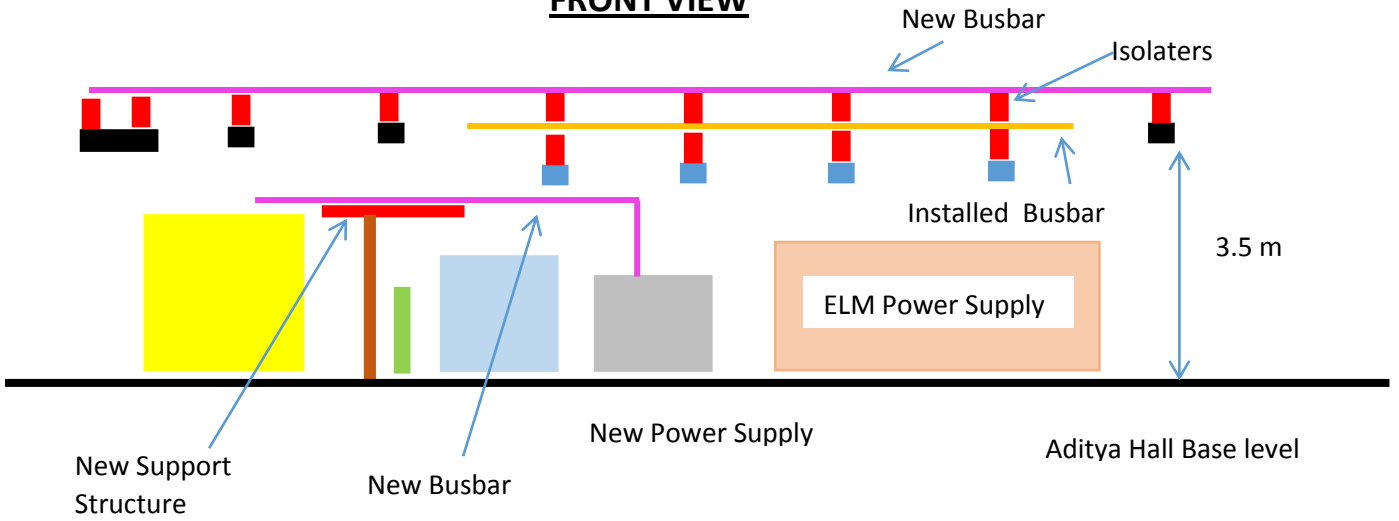


# DRAWING 2

## TOP VIEW



## FRONT VIEW







**Form No: IPR-MFW-01.V1**

**INSTRUCTIONS TO BIDDERS AND TERMS AND CONDITIONS**

1. The Quotation and any order resulting from this enquiry shall be governed by our Conditions of Work Order and Contractor quoting this enquiry shall be deemed to have read and understood the same completely.
  2. Where counter terms and conditions have been offered by the Tenderer, the same shall not be deemed to have been accepted by IPR unless our specific written acceptance thereof is obtained.
  3. **Quotation:** Quotation should be submitted in the prescribed QUOTATION FORMAT attached with this Enquiry and the same should be submitted in a sealed envelope super-scribing the same with our enquiry No., date, due date and brief description of item on or before the due date. Late/delayed/incomplete/unsigned quotations will not be considered. Envelopes received without Enquiry number, date, due date and brief description of item may be rejected. The quoted prices should be firm for a period of 90 days from due date for placing order. IPR is not bound to accept lowest rate/s. IPR reserves the right to place on one or more parties. The scope of supply includes insurance by the Contractor.
  4. **Specifications:** Goods should be offered strictly conforming to our specifications/drawings. Deviation, if any, should be clearly indicated by the contractor in their quotation. The Tenderer should also indicate the Make/Type number of the goods offered and catalogues, technical literature and samples, wherever necessary should accompany the quotation. Clarification/s on drawings should be obtained before submitting quotation.
  5. **Terms of Prices:** Quotation should be submitted on door delivery basis without extra charge wherever possible. For quotations on Ex-Works, Ex-godown basis the approximate packing and forwarding charges should be indicated by the contractor. In the case of local contractors, the goods are to be delivered at our stores free of charge.
  - 5.1 In respect of tenders on Ex-works basis, in case the tenderer has not mentioned in the offer packing, forwarding and transportation charges for safe delivery up to Purchaser's site, 2% of the price quoted towards packing (in respect of both local and outstation firms), 1% of the basic price quoted towards safe delivery charges in respect of local tenderer and 3% of the basic price quoted towards safe delivery charges in respect of outstation firm will be added for comparison of offers on safe door delivery at Purchaser's site.
  - 5.2 Prices are required to be quoted according to the units indicated in the tender form/Enquiry. When Quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished
  6. Tender should be free from Correction and Erasures. Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail. Unsigned quotations will summarily be rejected. If there is a discrepancy between the unit price and total price, unit price shall prevail.
  7. IPR shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rate quoted.
  8. **Goods & Services Tax (GST):** The details of Taxes/GST and other levies legally applicable and intended to be claimed should be clearly indicated in the tender. Where this is not done, no claim on these accounts would be admissible later.
    - a) **GST for Goods (IGST/CGST/SGST TAX BENEFITS):**  
IPR is entitled to avail tax benefit as per the following notifications issued by Ministry of Finance, Department of Revenue, Government of India:  
(1) No: 47/2017-INTEGRATED TAX (RATE) DATED 14/11/17 for IGST  
(2) No: 45/2017-CENTRAL TAX (RATE) DATED 14/11/17 for CGST  
And,  
IPR is entitled to avail tax benefit as per the following notifications issued by Finance Department, Government of Gujarat:  
(1) No. 45/2017-STATE TAX (RATE) DATED 15/11/17 for SGST  
As per above notifications IPR will bear only 5% IGST for procurement of goods from outside Gujarat & 2.5% CGST and 2.5% SGST (total 5%) for procurement of goods within Gujarat. Vendors are required to charge tax as per these notifications while quoting/supplying the goods. Deviations, (if any) should be clearly mentioned in the quotation/offer.
- Please specify the HSN codes while quoting.**
- b) **GST for Services:**  
As applicable. **Specify the SAC codes wherever services are involved.**
9. **Delivery Date:** Delivery period is essence of the Contract. Contractor must indicate the firm delivery date by which the goods will be dispatched or delivered by them from the date of our order. Delivery period shall be clearly indicated against each item separately.
10. **Price/ Purchase Preference:** Purchase/Price preference to industries will be given as per the policy of the Government of India in force at the time of evaluation provided their offer is in compliance with the conditions of the policy.



11. **Liquidated Damages:** The successful Vendor/Bidder should pay liquidated damages @ ½% (half percent) of the total work order value for the delay of each week in the scheduled date of completion of the work envisaged in the Work Order subject to a maximum of 5% (Five percent) of the total Work Order value.
12. **Inspection:** Goods on its arrival at IPR will be inspected by Stores, and his decision in the matter will be final. However, where the items are required to be inspected at the Contractors Premises, Contractor has to give advance notice regarding readiness of the Goods to enable us to depute our representative for inspection.
13. **Payment:** Payment will be arranged for accepted goods only within 30 days from the date of receipt of goods at IPR and bills in our accounts section, completed in all respects.
14. No correspondence will be entertained within 30 days from the date of receipt of good and bills, whichever is later.
15. **Guarantee:** The Stores offered should be guaranteed for a minimum period of twelve months, from that date of acceptance, against defective Goods, design, workmanship, operation or manufacture. For defects noticed and communicated during the Guarantee period, replacement/rectification should be arranged free of cost within a reasonable period of such notifications. In case where our specifications call for a guarantee period more than 12 months specifically, then such a period shall apply.
16. **Performance Bank Guarantee:** If demanded by IPR, the successful bidder will have to furnish Performance Bank Guarantee for 10% of the order value (basic price) from a Nationalized/Scheduled Bank/State Bank of India, valid throughout the Guarantee/Warranty period. The scheduled banks approved by IPR are Axis Bank, HDFC Bank, ICICI Bank and IDBI Bank. Bank Guarantees submitted other than from banks approved by IPR will not be accepted.
17. **Security Deposit:** If demanded the successful Bidder will have to furnish to the Purchaser an interest free security deposit for 10% (Ten percent) of the order value in the form of Bank Guarantee of an equivalent amount from a nationalized/ scheduled Bank/State Bank of India within 15 days from the date of work order and the said Guarantee should be valid till the goods are accepted by IPR. The scheduled banks approved by IPR are Axis Bank, HDFC Bank, ICICI Bank and IDBI Bank. Bank Guarantees submitted other than from banks approved by IPR will not be accepted. The Security deposit shall be forfeited in case the selected Bidder does not start the work within the time limit specified or fail to complete the work within the stipulated delivery period or fail to comply with any of the terms and conditions in the work order. On successful completion of scope of work and its acceptance by IPR, Contractor should send a letter requesting return of the original BG.
18. The Contractor shall at all times indemnify the purchase against all claims which may be made in respect of the stores for infringement of any right protected by Patent Registration of design or Trade Mark and shall take all risk of accidents or damage, which may cause failure of supply from whatever cause arising and the entire responsibility for sufficiency of all means used by him for the fulfilment of the contract.
19. **Free Issue Material (FIM):** Successful tenderer will have to arrange insurance showing beneficiary as “Institute for Plasma Research” at their risk and cost towards adequate security for the materials/property provided/issued by the Purchaser as Free Issue Material for the due execution of the contract.
20. The Director, IPR reserves the right to accept or reject any quotations fully or partly or to cancel the enquiry without assigning any reason.
21. **Jurisdiction:** The contract shall be governed by the Laws of India for the time being in force. The Courts of Gandhinagar only shall have jurisdiction to deal with and decide any legal or dispute arising out of this Contract.

(This need to be printed in Bidders letter head)

1. Please quote with complete technical details along with technical compliance sheet.
2. Quotation should be submitted in the format given below, else IPR shall not consider the offer by the vendor.

**NAME OF PARTY :** \_\_\_\_\_

**ENQUIRY NO:** \_\_\_\_\_

**QUOTATION No. & DATE :** \_\_\_\_\_

Currency of Quotation: **Indian Rupees**

Sr. No.	Item Description	HSN/SAC Code	Quantity	Unit Rate (Basic)	Packaging & forwarding (P&F)	Applicable GST	Rate (incl P&F and GST)	Total Value
			a	b	c	d	e = b + c + d	f = a * e
1								
2								
3								
4								
5								
6								

Sr. No.	Particular	Remarks
I.	Ex-works / FOR Destination	
II.	Freight	
III.	Insurance	
IV.	Delivery Period	
V.	Payment (IPR terms will apply)	
VI.	Guarantee / Warrantee	
VII.	Validity Period	
VIII.	Discount (if any)	
IX.	Remarks	

Place: Authority Signatory

Date: Company Seal

**Note:**

1. Bidder should submit the copy of GSTIN / ARN Certificate along with the offer
2. Bidder should specify the SUPPLY and SERVICE rates/ charges separately wherever applicable