



**CENTRE OF PROPULSION TECHNOLOGY (CoPT)
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI – 600036, INDIA**

Ref. No. ASE/1617/136/MUAY/SRCH/017

Date: 14.12.2018

Pre Bid Meeting: 21.12.2018 at 11.30am

Due date: 04.01.2019

Venue: Conference Room, NCCRD Building, IIT Madras

Item name: Limited Tender For Supply Of “PLC Based Safety Interlocking System”

Quotations are invited in single **bid system** for the item shown overleaf (in Annexure I). The single bid should consist of all technical details / specifications and indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The bid should be put in a cover and sealed. The Limited Tender Ref No. and description of goods quoted for should be written on the left side of the outer cover

1. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
2. The total cost of the equipment in terms of CIP Chennai should be clearly mentioned .
3. Terms of warranty and guarantee should be explicitly mentioned.
4. Packing and delivery charges, customs and clearance duty should be clearly stated.
5. Goods shall not be supplied without an official supply order.
6. Local firms : Quotations should be for free delivery to this institute. If quotations are for ex-godown, delivery charges should be indicated separately.
7. Firms outside Chennai: Quotations should be for F.O.R. Chennai. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If ex-godown, packing, forwarding and freight charges must be indicated.
8. IIT Madras is eligible for concessional rate of GST 5%(for purchase of equipments and consumables used in research). Concessional GST certificate will be issued after issue of purchase order.
9. The rate of sales / general taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for sales / general taxes will be admitted at any stage and on any ground whatsoever.
10. Payment :Payment is after delivery of goods.Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later. Advance payment will be considered only in special cases.
11. IIT Madras is eligible for concessional rate of customs duty. Necessary certificate will be issued on demand.
12. IIT Madras has the right to accept the whole or any part of the tender or portion of the quantity offered or reject it in full without assigning any reason.
13. The sealed quotation may be sent to
**The Purchase Manager,
CoPT OFFICE, NCCRD Building
Behind Aerospace Engineering Dept., IIT Madras,
Chennai – 600036, Ph. (O) +91-44-22579863**

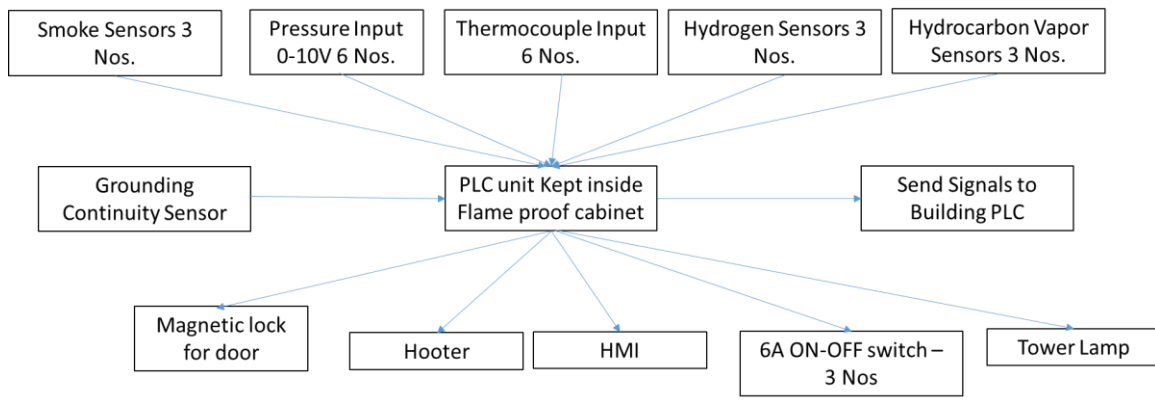
ANNEXURE



CENTRE OF PROPULSION TECHNOLOGY (CoPT)
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Requirements for PLC safety interlocking system

1. PLC should take inputs from 6 pressure sensors, 6 thermocouples, 3 Hydrocarbon vapour sensors, 4 hydrogen sensors & 3 smoke detectors.
2. The outputs will be given to the hooter, tower lamp, fuel pump ON/OFF switch & magnetic door switch.
3. Apart from the pressure sensors & thermocouples, all the other sensors must be supplied.
4. Fuel pump ON/OFF switch, magnetic door switch & tower lamp based on the existing condition must be supplied.
5. The hydrocarbon vapour sensor, hydrogen sensor & the smoke detector should be suitable for Zone-2 classification.
6. PLC will be in the safe zone but a flame proof cabinet must be provided.
7. HMI (human machine interface) is required which is suitable for future programming or modification of the PLC code.
8. All the accessories required for installation should be provided and the installation should be done on site.
9. 3 No's of 230V 5-Amps on-off switches which operates based on the input is required.
10. The PLC should connect with the building safety monitoring system.
11. Static bonding and grounding should be monitored. If it's not present it should be indicated through an output signal.
12. On site Warranty should be provided for at least 2 years.



Contact person for technical clarifications:

1. Hrishikesh Srivatsav D., Mobile No:9791906260
E-mail Id: hrishi.space@gmail.com
2. Krishnakumar, Mobile No.8124430509
3. E-mail Id: adkrish.aero@gmail.com