LIMITED TENDER

Sub: “Modification & updating of PLC ladder logic and its control/power wiring in the existing PLC controlled Main and QC ventilation system panels, Commissioning, Testing of the entire system as per the scope of work attached at PMD BARC, Vashi Complex.”

For & On behalf of the President of India, quotations are invited by the undersigned for following fabrication / repair work to be carried out at Powder Metallurgy Division, Vashi Complex, Navi Mumbai-400 703. The scope of work is detailed below.

Modification & updating of PLC ladder logic and its control/power wiring in the existing PLC controlled Main and QC ventilation system panels, Commissioning, Testing of the entire system as per the scope of work attached at PMD BARC, Vashi Complex.

The quotation in sealed cover should superscribed as “Modification & updating of PLC ladder logic and its control/power wiring in the existing PLC controlled Main and QC ventilation system panels, Commissioning, Testing of the entire system as per the scope of work attached at PMD BARC, Vashi Complex.” and should be addressed to following person and should reach him/her by Speed Post/Registered Post through Indian Postal Service only on or before the date and time mentioned below.

Shri Kolli Naresh, SO(D)
Powder Metallurgy Division,
BARC Vashi Complex,
Navi Mumbai - 400 703

On or before 14 November, 2019 at 15.00 hrs.

Instructions to the tenderer:

The tenderer should write in words as well as figures, the rate(s) quoted by him and PAN No, GST mentioned on the tender. All corrections must be attested by the dated initials of the tenderer.
The tenderer may note that in case the work is awarded to him, he has to produce police verification certificate for the employees to be deputed for the work inside the BARC/BRIT complex, Navi Mumbai.

Income-Tax and surcharge on income-tax as applicable shall be deducted from the bill. The payment for the work done shall be paid by our Accounts Division only on satisfactory completion of the work within one month.

Vendor should visit the site to get himself/herself appraised with the quantum of work involved for the execution of job.

The time allowed for completion of the job is 60 days. The same shall be reckoned from the date of issue of the work order.

The acceptance of the tender rests upon the undersigned with a right to reject the tender without assigning any reason.

Thanking you,

Yours faithfully,

(Kolli Naresh)
SO/D, PMD
Annexure

Modification & updating of PLC ladder logic and its control/power wiring in the existing PLC controlled Main and QC ventilation system panel, Commissioning, Testing of the entire system as per the scope of work attached at PMD BARC, Vashi Complex.

Present existing system Details:

VFD Drives: Ventilation control panel consists of Siemens make Micromaster Variable Frequency Drives (06 no’s VFDs).

PLC System: Ventilation control panel consists of M/s Schneider Electric make PLC, HMI Panel, I/P & O/P modules and other related electrical accessories.

Scope of work:

1. Ladder logic modification with reference to Exhaust and Supply blowers start and stop, logic program upload in CPU units.
2. Power and control wiring connections to be checked / activated.
3. Thorough interlock checking as per ventilation logic given by user.
4. Implementing the drive set speed reached additional interlock in the PLC ladder logic of the blower’s operation and its necessary hardwiring as per site requirement.
5. Development/modification of logic based on Sequence/time delay of blower’s operation as per user’s requirement both in auto mode and manual mode.
6. Configuration of the local display units and HMI panel for showing the area wise pressure transmitters reading.
7. Configuring HMI panel to show the common plenum velocity transmitter reading.
8. Implementing additional bypass mode (Bypassing both PLC and VFD drives) for ventilation blower’s operation with bypass switches, hooters (04 Nos (main ventilation Exhaust and supply Blower Panel, QC ventilation exhaust and supply blower panel)) for blower’s (All 11 blowers) trip indication, and operational interlocks as per the site requirement.
9. Identifying and removing all temporary bypass connections made in the existing system.
10. Installation and configuration of process indicator (Make: Selec PIC101, 04 No’s) to indicate common plenum velocity in the PLC panel.
11. Testing of hardware functionality of panel sub components such as power contactors, DOL starters, overload relays etc.
12. Commissioning and testing the entire system with new interlocks.
13. Providing complete and updated power/control wiring drawings of PLC panel and ladder logic both in softcopy and hardcopy.
14. Updating and providing the complete power/control wiring diagrams of the ventilation system power panels.
15. Training on Schneider PLC software and HMI operation.
16. Providing Warranty/technical support for the operational issues as and when arises for the period of one year.

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**Notes**

A. Vendor should visit the site to get himself/herself appraised with the quantum of work involved for the execution of job.

B. The vendor should have prior experience of installation, configuration, programming of PLCs and power panels.

C. Security: Police verification certificates (PVC) are required for supervisor and all workers employed by the contractor inside BARC. Security instructions on entry of workers, working time etc. are to be followed strictly.

D. Safety: All the personnel of the contractor deployed for the work should follow the safety guidelines as per the work permit given by the Division while working at site. Any mishap/injury occurring to the deployed personnel due to unsafe work practice shall be vendor’s liability.

E. A warranee certificate for a period of one year should be submitted on completion of the work.

F. Payment shall be made only on satisfactorily completion of work and on submission of bills (in triplicate) addressed to Accounts Officer, BARC, Trombay sent to the undersigned.

G. The work shall be completed within 60 days after issue of Work order.

H. No free issue material will be provided for this work.

I. For any queries the party may contact Kolli Naresh (Tel. No. 27887152) / Trupti Mohanty (Tel No 2788 7163) of Powder Metallurgy division, BARC.