

## TENDER DOCUMENT

Name of Work: S.I.T.C. of Automatic Fire Detection and Suppression System for Electrical Block Panel at New Lab Block at NIPGR Campus, New Delhi.

Owner : Director, NIPGR, New Delhi

Tender Issued to :

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Place for submission/  
Place opening of tender document:

NIPGR Campus,  
Aruna Asaf Ali Marg,  
New Delhi-110067

Consultant Engineer  
NIPGR

COST OF TENDER DOCUMENT:- ₹ 500/-

**NATIONAL INSTITUTE OF PLANT GENOME RESEARCH**  
(Department of Biotechnology, Ministry of Science and Technology, Govt. of India)

Aruna Asaf Ali Marg, New Delhi-110067  
Phone: 011-26735161, 26735138 Fax: 011-26741658

**TENDER NOTICE**

File No.: NIPGR/Engg./6/1(3)(F.F.)/2015-16/

Dated: 03.07.2015

Sealed item rate Tenders (in single bid system) are invited on behalf of the Director, NIPGR, New Delhi from approved and eligible Contractors of CPWD/Central Govt/State Govt./ Govt. Autonomous Bodies, and reputed organizations so as to reach this office up to 3.00 P.M. on or before 21.07.2015 for the following work:

**Name of Work:** S.I.T.C. of Automatic Fire Detection and Suppression System for Electrical Block Panel at New Lab Block at NIPGR Campus, New Delhi.

Sl. No.	Estimated Cost	EMD (In ₹)	Time for Completion	Last date & time for sale of Tender Documents	Last date & Time of receipt of Tender	Date & time of opening of tenders
1.	2.	3.	4.	5.	6.	7.
1.	₹ 2.14 lakhs	₹ 4,285.00	30 days	20.07.2015 16.00 Hrs.	21.07.2015 15.00 Hrs.	21.07.2015 15.30 Hrs.

Tender document can be obtained up to 16.00 Hrs. on all working days on payment of ₹ 500.00 (₹ Five hundred only) in cash (Non-refundable) towards the cost of tender. The earnest money shall be in the form of Demand Draft of a Scheduled Bank issued in favour of the **Director, NIPGR, New Delhi**.

The tender document can also be downloaded from our website [www.nipgr.ac.in](http://www.nipgr.ac.in) and CPP Portal. The tender document downloaded from website must be accompanied with ₹ 500.00 (₹ Five hundred only) in the form of Demand draft in favour of the "**Director, NIPGR, New Delhi**" towards the cost of tender document, otherwise the tender will not be considered.

The earnest money shall be in the form of separate Demand Draft of a Scheduled Bank issued in favour of the **Director, NIPGR, New Delhi**.

The tenders will be accepted in respect of those contractors having successfully completed three similar works each costing not less than ₹ 0.86 lakhs or two similar works each costing not less than ₹ 1.07 lakhs or single similar work of costing not less than ₹ 1.71 lakhs and having minimum annual financial turnover of ₹ 1.75 lakhs, during the last three years ending June 30, 2015. Similar works means "SITC of Automatic Fire Detection and Suppression System in Govt. organizations, Govt. Autonomous organizations, PSUs and reputed organizations.

Intending tenderers must enclose self-attested copies of Completion Certificate of having completed the work satisfactorily issued by an appropriate competent authority and financial turnover certificate along with the tender.

The Director, NIPGR, reserves the right to accept or reject all or any of the tender without assigning any reasons thereof.

Consultant Engineer  
NIPGR, New Delhi

**SUB.:** Supply, Installation, Testing and Commissioning of Automatic Fire Detection and Suppression System for Electrical Block Panel at New Lab Block in NIPGR, New Delhi.

**Schedule of Quantity**

SI No.	Particulars	Description	Qty	Unit	Rate Per Unit	Amount ( )
1	Supply of 2 Kg Automatic Direct Low Pressure Fire Suppression Extinguisher and Valve.	Extinguishant :- Clean Agent NAF S 125 / HFC 125 Fire Suppression Extinguisher Can : Stored Pressure Type, fitted with Pressure Gauge, Hydraulic Pressure Tested to 35 bars, operating pressure 15 bar. Applicable on class A, B, C and electrically started fires. Valve : Direct Low Pressure with Integrated ball valve to minimize leakages, Integrated position monitoring of valve for open / close position of valve using potential free switch contact. Special key for locking valve position to avoid accidental closure. Operating pressure 15 bar tested upto 35 bars, 2 Tube connections and assembly	1	Each		
2	Pressure Switch	Supply of Pressure Switch to monitor Pressure in the tube, switch point 11 Bars.	1	Each		
3	Heat Sensing Tube for automatic fire detection and suppression System	Supply of Heat Sensing tube for automatic fire detection and suppression system made by special modified Polyamide (PA), Color Black or Red, High grade HR quality, UV Stabilized, Inner diameter 4mm, Outer Diameter 6 MM, Melting Point approx: 220 degrees Celsius when heating up with 10 K/minute, Steady load tested upto max. 80° C. The lowest operating temperature is stipulated at minus 40°C. Service Pressure 15 Bar, Burst Pressure at 20 Deg C approx 120 Bars, Release Temperature : Rapid heat increase in temperature at 15 bars pressure approx 150 Deg to 180 Deg C (Without Flame)	37	Rmtr.		
4	End of Line Adapter	Supply of End of Line adapter for Pressure gauge fitting for Automatic fire detection and suppression tube used for fitting at the end of the tube for pressurizing and re pressurizing the tube. Fitting made by brass (plated / unplated), Stainless steel, Elastomeric Sealings, Copper Nickel plated, Temperature range TS -20 Deg C till + 60 Deg C, Maximum working pressure 25 Bars, made as per PED (Pressure Equipment Directive)	1	Each		
5	End of Line Plug	Supply of End of Line Plug for Automatic fire detection and suppression tube used for fitting at the tube end to terminate the point. Fitting made by brass nickel plated material with Elastomeric sealings, Temperature range TS -20 Deg C till + 60 Deg C, Maximum working pressure 25 Bars, made as per PED (Pressure Equipment Directive)	3	Each		
6	T-Connection	Supply of T Connection, Brass, Nickel plated, for 4x6 mm Sensor Tube, quick and easy disassembly using special tool, working pressure 15 bars at 15 Deg Temperature, temperature range-40 Deg C till + 80 Deg C, Elastomeric Sealings, External Diameter tube 6mm.	2	Each		

SI No.	Particulars	Description	Qty	Unit	Rate Per Unit	Amount (₹)
7	Fire Audio Visual Alarm Panel	Supply of fire audio visual alarm Panel with monitoring LED's, with SMF Battery Backup, Complete with electronic conventional sander with adapter for both internal and external use, including connection with suitable size of wire of panel and sander and other accessories .	1	Each		
8	Installation & Commissioning Charges	Installation, testing & Commissioning includes complete setup of the system, Installation of Cylinders, response panel on specially designed brackets, Laying of sensor tubes using tube attachments and Cable ties, fixing end of line plugs and end of line adapters, pressurizing tube @ 15 Bars using Nitrogen pressurizing agent. Supply of all Sundry items shall also be part of Installation.	1	Job		
		<b>Total Amount</b>				
[Amount in Words:.....]						
सहाईकार अभियंता						
						Seal & Sign of Contractor

## TERMS & CONDITIONS

**Name of Work:** Supply, Installation, Testing and Commissioning of Automatic Fire Detection and Suppression System for Electrical Block Panel at New Lab Block in NIPGR, New Delhi.

1. The site of the work is at NIPGR Campus, Aruna Asaf Ali Marg, New Delhi-110067.
2. The quotationer must visit the site before quoting the rates and make him acquainted with the panel location at site. The Institute shall entertain no extra claim later on.
3. The rates are inclusive of Transportation/travelling, lodging/boarding, loading, unloading & handling of portable fire extinguishers and nothing extra will be paid.
4. The rates shall be valid for one year and nothing extra will be paid.
5. The rates shall be inclusive of VAT, service tax, Octroi, etc., and nothing extra will be paid.
6. The payment shall be made after completion of work; no advance payments will be made.
7. The work must be completed within **30 days** after the date of issue of work order. In case the work is not completed within stipulated period, a compensation Rs.1000.00 (Rs. One thousand only) per day subject to maximum of 10% of the work order amount shall be levied.
8. A quotation must be accompanied with EMD amounting to Rs. 4285.00 (Rs. Four Thousand & Two Hundred & Eighty Five Only). The EMD shall be in the form of demand draft of scheduled banks, drawn in favor of "**Director, NIPGR**" New Delhi. The EMD should be enclosed in separate envelope duly marked EMD, which shall be open first. **Without EMD, quotation will not be accepted.**
9. All papers attached with this quotation should be signed by tenderer & verified with original. The quotation shall be submitted in prescribed format issued by the department.
10. **Work Experience:** - Firms dealing in fire fighting system work who have completed similar work (SITC of Automatic Fire Detection and Suppression System) costing not less than Rs. 1.71 Lakhs OR two similar work each cost not less than 1.07 Lakh OR three similar works each costing not less than Rs. 0.86 Lakhs in Govt. organizations, Govt. Autonomous organizations, PSUs and Reputed organizations and having average annual financial turnover of Rs. 1.75 Lakhs during the last three years ending June 30, 2015. The agency shall submit copies of completion certificate and financial turnover certificate along with the quotation.
11. Security Deposit @ 10% will be deducted from the bill, the EMD shall however be adjusted against the Security Deposit.
12. **The EMD/SD will be forfeited in the event of violation of any work related conditions of the tender document.**
13. The warranty of the fire fighting system shall be for one year and extinguishers contents should be as per refilling schedule for fire extinguishers mentioned in Code of Practice (Fourth Revision), ICS 13.220.10
14. The following makes of material shall be acceptable:-
  - Fire Extinguisher : Ceasefire/Minimax/GeTech
  - Valve : FiWaRec/Rotarex
  - Pressure Switch : FiWaRec /WIKA/Danfoss/Rotarex

- Tube Attachment : ISI
- Heat Sensing Tube : Firetech/Rotarex
- End of line adapter/plug/T-connection: WIKA/Ceasefire/Rotarex/FiWaRec
- Cable/wire : Gloster/Skytone/Kalinga/Polycab

15. Security Deposit will be refunded after the completion of defect liability period of 12 months w.e.f. actual completion date.
16. The firm's office establishment should be based in NCR/Delhi.
- 17. The contractor shall submit hydraulic test and gas (Clean agent NAF S 125/HFC 125) authenticity certificate certificates and test marka/stamp for each fire extinguisher.**
18. All the work shall be done as per original manufacturer recommendations/relevant IS code and original spares/material shall be used.
19. The agency shall have to arrange his own tools & plants, skilled & non-skilled manpower, lifting arrangement, testing apparatus etc. required for testing & refilling of portable fire extinguishers and nothing extra will be paid.
20. Agency shall inform to the Institute in advance for taking over the site.
21. The contractor should paste their service slip with their logo on the fire extinguishers and accessories.
22. If there is any leakage from any fire extinguisher, the contractor shall attend the same on the same day and refill the same free of cost.
23. The below standard work shall be redone and nothing extra will be paid.
24. The Institute reserves the right to reject/accept any or all quotation without assigning any reason.
25. The Institute also reserves the right to reduce/ increase the scope of work to a maximum of 50%.
26. In case of any dispute, the decision of the Institute shall be final & binding on the agency.
27. The above work shall be executed by the trained manpower under the supervision of agency's engineer.
28. Any damage to the existing installations during the course of work will be the responsibility of the agency and will be made good to the satisfaction of the Engineer-in-charge and nothing extra will be paid. In case the site clearance and damages are not attended, a recovery amounting to Rs. 5000/- shall be made.
29. Any kind of accident / electrocution caused due to negligence or during the course of normal work etc. shall be responsibility of the agency and nothing extra will be paid.
30. All safety precautions shall be taken so as to avoid any accident or inconvenience to the members of staff. The agency shall coordinate the work with the Institute's time schedule.
31. A copy of the TIN & PAN No. issued by the concerned authority must be enclosed with the quotation.

सलाहकार अभियंता

**Seal & Signature of Contractor**