

**National Institute of Plant Genome Research**  
Aruna Asaf Ali Marg, Near ICSSR, JNU Campus, New Delhi – 110067  
Phone: 26735161, 26735138 Fax: 26741658

F. No. NIPGR/7/49/Vol.IV /

Dated: 01.10.2013

**NOTICE INVITING QUOTATIONS**

Sealed item rate quotations are invited on behalf of the Director, NIPGR, New Delhi, from approved & eligible contractors in respect of the following work, so as to reach his office on or before 17.10.2013 up to 3.00 P.M. The quotation shall be opened on the same day at 3.30 P.M. in presence of the intending quotationers.

**SCHEDULE OF QUANTITY**

**Name of Work:** Maintenance of Intelligent Addressable and Conventional Fire Alarm System and CO<sub>2</sub> Flooding System at NIPGR, New Delhi, during the year 2013- 2014.

Sl. No.	Description	Qty.	UNIT	Rate (in Rs.)	Amount (in Rs.)
	<b>As per enclosed Schedule of Quantity and Terms &amp; Conditions</b>				

**Encl.:** 1. Schedule of quantity.  
2. Terms & conditions.

(Sudhir Patwal)  
Administrative Officer

M/s \_\_\_\_\_

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Seal & Signature of Contractor

**SCHEDULE OF QUANTITY**

**SUB.:** Maintenance of Intelligent Addressable and Conventional Fire Alarm System and CO<sub>2</sub> Flooding System at NIPGR, New Delhi, during the year 2013 – 2014.

S.No	Description of item	Qty.	Rate	Unit	Amount (in Rs.)
1.	Providing services for maintenance and operation of Intelligent Addressable and Conventional Fire Alarm System and CO <sub>2</sub> Flooding System at NIPGR, New Delhi in single shift on all days including Sunday and holiday for all the equipment and accessories as per Annexure, terms and conditions attached. (w.e.f. 25.11.2013 to 24.11.2014)	12 months		Per Month	
<b>Total Amount</b>					
(Rs. in words _____)					

Seal & Signature of Contractor

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Administrative Officer



**LIST OF SPARES**

Sl. No.	Description of items	Make/Model No./Catalogue No./Code No.	Unit price rate including taxes	Remarks
1.	Photoelectric Smoke Detector	Edward Cat. No.-SIGA-PS		
2.	Rate of Rise Heat Detector	Edward Cat. No.-SIGA-HRA/SIGA-HFS		
3.	Manual Pull Station	Edward Cat. No.-SIGA-270		
4.	Standard Detector Bases	Edward Cat. No.-SIGA-SB		
5.	Isolator Detector Bases	Edward Cat. No.-SIGA-IBS		
6.	Control Module	Edward Cat. No.-SIGA-CR		
7.	LCD Display	Edward Cat. No.-3-LCD		
8.	Main CPU	Edward Cat. No.-3-CPU		
9.	Single Loop Card	Edward Cat. No.-3-SSDC		
10.	Reprogramming of complete Intelligent Fire Alarm system & P.A. system installed at NIPGR, New Delhi.	Job		
11.	4 Zone Fire Alarm Control Panel Solid State with 4 nos. Gas release units with 2x12V, 7Ah SMF batteries, battery charger circuit	Make-Agni, Model-Orion4z		
12.	Multicriteria smoke cum heat detectors	Make System-Sensor, Model No.-2351TEM		
13.	Electronic Hooter cum Strobe	Make-Agni		
14.	Solenoid valve with coil 24VDC, 8W	Make-Rotex Automation Ltd. Code No.-20101A-1.2-2G		
15.	4 Zone Fire Alarm Control Panel with 2x12V, 7Ah SMF batteries, battery charger circuit	Make-Agni Suraksha, Model-Fire Scan FAP 2008		
16.	Photoelectric Smoke Detector	Make-Agni Suraksha Model No.-AD333-2L		
17.	Low Intensity Hooter (80 to 100 db)	Make-Agni Suraksha Model No.-MS-II		
18.	Manual Call Point	Make-Agni Suraksha Model No.MS Type		
19.	Fire Response Indicator	Make-Agni Suraksha Model No.-ABS-mini		

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## Annexure "A"

**Name of work:** Maintenance of Intelligent Addressable and Conventional Fire Alarm System and CO<sub>2</sub> Flooding System at NIPGR, New Delhi, during the year 2013 – 2014.

DAILY CHECKS	WEEKLY CHECKS	MONTHLY CHECKS	QUARTERLY CHECKS
<p>1. The contractor shall carry out daily examination on the main control panel to check the status of fault indication. Any fault observed shall be entered in the log book and reported to the Department Remedial action shall be taken immediately to set right the system.</p> <p>2. Check public Address system for the complete building for functioning.</p> <p>3. Check functioning of fire circuit of each zone from the panel itself.</p>	<p>1. Check the batteries including battery water etc.</p> <p>2. Check the alarm indications any unwanted noise etc at main control, hooters or other equipments etc.</p> <p>3. Once a week some detector call points shall be triggered. Different detector will be checked in numerical sequence, date, time identity and placement of detectors shall be recorded in log book.</p> <p>4. Check last detector of each zone.</p>	<p>1. Cleaning of main control panel and cards.</p> <p>2. Check of operational readiness of control panels in case of electrical mains failure.</p> <p>3. Visual check of manual call points and their performance.</p> <p>4. Check of sounding electrical hooters.</p>	<p>1. Cleaning of main control panel and smoke detectors and performance check up after the cleaning and effective working entries to that effect to be made in log book.</p> <p>2. The quarterly check up shall be carried out with out the main supply and battery voltage shall be checked with all hooters operating. A test certificate shall be recorded in the log book for this action.</p> <p>3. For Zonal check up of monitoring circuits, quarterly check shall be performed by simulating the last detector on each number correct operation of fault indicated shall be checked and entered in log book.</p> <p>4. The agency shall have to perform half yearly smoke fire drill at the time and place decided by the department demonstrating healthy performance of the complete automatic fire detection system and Public Address system.</p>

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## TERMS AND CONDITIONS

**Name of work:** Maintenance of Intelligent Addressable and Conventional Fire Alarm System and CO<sub>2</sub> Flooding System at NIPGR, New Delhi, during the year 2013 – 2014.

1. The site of work is at NIPGR Campus, Aruna Asaf Ali Marg, New Delhi – 110067.
2. The contractor should quote the rates after visiting the site of work and assessing the quantum of work involved in carrying out the turn key job.
3. The rates shall be inclusive of Transportation, loading, unloading & handling charges and nothing extra will be paid.
4. The rates shall be inclusive of VAT, Service Tax, other taxes, octroi, etc., and nothing extra will be paid.
5. The department is at liberty to accept or cancel any or all tenders without assigning any reason.
6. Any damage to the existing installations during the execution of work will be the responsibility of the contractor and will be made good to the satisfaction of the Engineer-In-Charge and nothing extra will be paid.
7. Any accident / electrocution caused due to negligence or during the course of normal work etc., shall be responsibility of the Contractor. The contractor shall be directly responsible for all compensation to the staff engaged by him.
8. All safety precautions shall be taken so as to avoid any accident or inconvenience to the members of staff.
9. The payment shall be made quarterly and no advance payment will be made.
10. The quotation must be accompanied with E.M.D. of Rs. 5970.00 (Rupees Five thousand nine hundred & seventy only) by way of D.D. drawn in favour of Director, NIPGR, payable at New Delhi.
11. The E.M.D. should be placed in a separate cover and will be opened first. The quotation not accompanied with E.M.D. will not be considered. The quotation shall be submitted in prescribed format issued by the institute.
12. The Security Deposit @ 10% of the work done shall be recovered and refunded after one month of completion of work. However, the E.M.D. will be adjusted against the security deposit.
13. The contractor shall perform and record all the checks as per Annexure 'A' enclosed.
14. Spare parts / Reprogramming shall be arranged by the contractor at the quoted rates as per enclosed list. The payment shall however be made after supply and installation of spare parts / execution of reprogramming. It shall be the responsibility of the contractor to arrange the genuine spares. The installation of spare parts shall be the part of AMC and nothing extra will be paid.
15. In case of any faulty part taken out of any fire alarm system and replaced, the same shall be handed over to the institute.
16. In case of fire signal received the staff on duty must locate the site of fire and on detection of fire information shall be passed on to the security staff on duty and Engineer-in-charge at once.
17. Any damage caused to the equipments, detectors, etc., during maintenance shall be made good by the contractor and nothing extra will be paid.
18. It shall be the responsibility of the contractor to check the installations as per inventory for the maintenance of the system. If the contractor finds any discrepancy missing articles accessories, etc. The same shall be brought to the notice of the Engineer-in-charge in writing within 7 days of award of

work. The complete system shall be handed over to the institute after the completion of maintenance period.

19. The call back service shall be provided within 4 hrs from lodging the complaints.
20. Following staff shall be provided by the contractor to maintain the all equipments.
  - (i) Supervisor - 1 Nos. (Once in a week)
  - (ii) Operator - 1 No. (Single shift daily from 9.00 AM to 5.30 PM)
  - (iii) Helper - 1 No. (Single shift daily from 9.00 AM to 5.30 PM)
21. The operator (Electronic) & Supervisor shall have a minimum experience of 3 years and 6 years respectively in handling the intelligent Addressable and Conventional Fire Alarm System and CO<sub>2</sub> Flooding installations.
22. The recovery for the absence of maintenance staff from duty shall be made from the contractor's bill at the following rates.
  - (a) Supervisor @ Rs. 1000.00 per visit
  - (b) Operator @ Rs. 500.00 per shift
  - (c) Helper @ Rs 200.00 per shift
23. The contractor shall have to arrange his own T & P necessary for maintenance of the work including laptop etc. No T&P shall be arranged by the department.
24. The contractor shall maintain log book showing all the checks, faults of the fire alarm system with date and time.
25. The work shall be carried out as per C.P.W.D. specifications for AFAS (Part-V-1988) & PA system amended up to date.
26. The contractor shall follow all rules of Labour Department, Government of NCT of Delhi invoked time to time.
27. The contractor shall carry out preventive maintenance of all the equipments as required.
28. The department reserves the right to terminate the work/contract at any time without assigning any reason.
29. In event of any loss being caused to the institution on incident of fire in case the system failed to work and / or dereliction of duties by the Agency or their staff as revealed by the enquiry, a Joint Committee comprising of representative of NIPGR and Agency shall determine the compensation to be paid to the NIPGR by the Agency. The recommendations of the Joint Committee will subject to the approval of the Director, NIPGR whose decision will be final and binding on both the parties.
  - (a) That in the event of any loss occasioned to the Client, as a result of any lapse on the part of Agency, which will be established after a joint enquiry, the client shall be entitled to claim the same from Agency to the extent of one month billing per event.
  - (b) However, the Agency will not be held responsible for damages / sabotage caused to the Institute due to riots / mobs, activities or any of the events of force – majeure whether or not of the same nature.
30. While quoting the rates PAN & TIN issued by concerned authorities must be mentioned.

PAN : \_\_\_\_\_

TIN: \_\_\_\_\_

Seal & Signature of Contractor

(Sudhir Patwal)  
Administrative Officer



## LIST OF EQUIPMENTS INSTALLED AT NIPGR NEW DELHI

### INTELLIGENT FIRE DETECTION & PUBLIC ADDRESS SYSTEM

1. Intelligent EST 3 panel (expandable to 8 loops currently 5 loops are in use) (complete with PA system + zone isolator switches etc.) "EDWARD" make	-	1 no:
2. Manual call Point	-	2 nos:
3. Photoelectric smoke detector (SIGA- PS)	-	273 nos
4. Rate of Rise Heat Detector (SIGA- HRS)	-	182 nos
5. Control Module	-	22 nos
6. Isolator base	-	20 nos.
7. Low intensity hooters	-	17 Nos.
6. AHUJA make amplifier with battery bank	-	1 no:

### LECTURE HALL

1. EST-2 Panel	-	1 no.
2. Smoke Detector EST Make	-	23 nos.
3. Manual Call Point	-	2 nos.
4. Beam Detector & Receiver	-	2 sets.

### PLANT GROWTH FACILITY

1. Main Control Panel with 2x12V, 7Ah Battery	-	1 no.
2. Smoke Detector Agni Suraksha Make	-	27 nos.
3. Manual Call Point	-	1 no.
4. Low Intensity Hooter	-	1 no.
5. Fire Response Indicator	-	8 nos.

## CO2 FLOODING SYSTEM AT ELCTRICAL PANEL ROOMS

- |   |   |         |
|---|---|---------|
| 1. 4 Zone fire alarm control panel<br>with 2x12V, 7Ah Battery   | - | 5 nos.  |
| 2. Multicriteria smoke cum heat detectors<br>Make System-Sensor | - | 20 nos. |
| 3. Electronic hooter cum strobe                                 | - | 5 nos.  |
| 4. Solenoid valve of 24VDC, 8W                                  | - | 15 nos. |

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