

TENDER DOCUMENT

Name of Work: Supply & installation of sewage cutter pump to install at IUAC for supply of effluent to NIPGR Campus, New Delhi.

Owner : Director, NIPGR, New Delhi

Tender Issued to : _____

**Place for submission/
Place opening of tender document:** NIPGR Campus,
Aruna Asaf Ali Marg,
New Delhi-110067

**Consultant Engineer
NIPGR**

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./7/1(3)/ETP/2015-16/

Dated: 08.02.2016

Sealed item rate Tenders (in single bid system) are invited on behalf of the Director, NIPGR, New Delhi from the eligible contractors who have experience in supply and installation of pumps with Govt. Departments or other reputed organizations, so as to reach this office up to 2.30 P.M. on or before 25.02.2016 for the following work:

Name of Work: Supply & installation of sewage cutter pump to install at IUAC for supply of effluent to 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.	₹ 2,22,550.00	₹ 4,460.00	6 weeks	23.02.2016 16.00 Hrs.	25.02.2016 14.30 Hrs.	25.02.2016 15.00 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 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 bids will be accepted in respect of eligible agencies having successfully completed at least three works of similar nature with Govt. Departments or other reputed organizations during the last three years ending 31st Jan. 2016. Copies of the completion certificate of satisfactory completion of work to be enclosed.

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

TERMS AND CONDITIONS

Name of Work: Supply & Installation of Sewage Cutter pump at IUAC for supply of effluent to NIPGR Campus New Delhi.

1. The contractor should visit the site and make them self-acquainted with the location of site. The Department shall not entertain any extra claim later on. Agency must submit the Certificate for site Inspection as per Annexure-A of tender along with Technical bid. if not submitted, their tender will not be considered.
2. The site of work is at NIPGR/IUAC Campus, Aruna Asaf Ali Marg New Delhi-110067.
3. The rates shall be inclusive of Transportation, loading, unloading and handling charges of material.
4. The rates shall be inclusive of all taxes including VAT etc.
5. The contractor shall follow all labour laws as prevailing in Delhi.
6. All materials shall be supplied to the entire satisfaction of the Institute.
7. All works shall be completed to the entire satisfaction of description & specification of supply order and the Engineer-in-charge.
8. The Institute reserves the right to reject / accept any or all tender without assigning any reason.
9. In case of any dispute the decision of the Engineer-in-charge shall be final & binding on the Agency.
10. Supply & Installation shall be completed in all respects within Six weeks from the date of issue of work order.
11. The Contractor shall be responsible for any damages and site clearance and nothing extra will be paid. In case the site clearance and damages are not attended, a recovery amounting to ₹. 5000/- (₹. Five thousand only) shall be made.
12. The quotation must be accompanied with **EMD of ₹.4460/- (₹. Four thousand & Four Hundred Sixty only) .The earnest money (EMD) shall be in the form of DD of scheduled bank drawn in favour of "Director NIPGR" New Delhi.**
13. **The EMD shall be enclosed in a separate envelope duly marked 'EMD' which shall be opened first.**
14. The quotation not accompanied with EMD shall not be considered. If a tenderer on his own withdraw\or revokes the tender of any item or condition in the tender notice, his earnest money deposit shall stand forfeited. Notwithstanding foregoing, the Institute reserves the right to take other actions as deemed appropriate
15. **Copy of PAN/TIN** issued by the respective departments must be enclosed while quoting the rates.
16. The contractor shall write the rates & Amount in word.
17. All papers attached with this Tender should be signed & returned in original.
18. The rates shall be valid for period of one year from the date of award of work.

**Consulting Engineer
NIPGR New Delhi**

PAN:

TIN:

Seal & Sign of Agency

'CERTIFICATE FOR SITE INSPECTION'
Pre-qualification criteria of NIT

Certified that we have visited the site on And assessed the nature and amount of work involved before submitting our offer. We will be able to complete the works within the stipulated time and also that we will be able to execute the work suit to the site conditions.

(Signature of Bidder with seal)

Name:

Address:

Date:

Consultant Engineer

SPECIFICATIONS OF CUTTER PUMP:

The pumps are submersible pumps with horizontal discharge port, specifically designed for pressurized pumping of waste water with discharge effluent. The pump equipped with a grinder system, grinding destructible solids into small pieces so that they can be led away through pipes of a relatively small diameter.

The surface of the pump is smooth to prevent dirt and impurities from sticking to the pump.

The pump is primarily made of cast iron. The clamp securing the motor to the pump housing is made of stainless steel to prevent corrosion and allow for ease of service of the pump.

The power cable of the pump shall also incorporate wires for the thermal sensors in the motor winding.

The cable connection with plug solution. The totally sealed plug connection to prevents moisture from entering the pump through the cable in case of cable breakage or adverse and/or careless handling of the pump cable.

The pump must be connected to a control box or a controller.

Controls:

Moisture sensor: Without moisture sensors

Liquid:

Liquid temperature range: 0..40°C
Density: 1000 kg/m³

Technical:

Type of impeller: GRINDER SYSTEM
Primary shaft seal: SIC/SIC
Maximum operating pressure: 6 bar
Approvals on nameplate: PA-I

Materials:

Pump housing: Cast iron
EN-JL1030
Impeller: Cast iron
EN-JL1030
Gasket: SIC/SIC

Installation:

Maximum ambient temperature: 40°C
Maximum operating pressure: 6 bar
Flange standard: DIN
Pump outlet: DN 40
Pressure stage: PN 10
Maximum installation depth: 10 m

Electrical data:

Number of poles: 2
Power input – P1: 5.2 kW
Rates power – P2: 4 kW
Mains frequency: 50 Hz

Rated voltage:	3 x 400-415 V
Voltage tolerance:	+6/-10 %
Start method:	direct-on-line
Max starts per hour:	30
Rated current:	8.2 A
Starting current:	43 A
Rated current at no load:	3.5 A
Cos phi – power factor:	0.92
Cost phi – p.f. at $\frac{3}{4}$ load:	0.89
Cos phi – p.f. at $\frac{1}{2}$ load:	0.81
Rated speed:	2830 rpm
Moment of inertia:	0.011 kg m ²
Motor efficiency at full load:	82 %
Motor efficiency at $\frac{3}{4}$ load:	82 %
Motor efficiency at $\frac{1}{2}$ load:	80 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Length of cable:	10 m
Cable type:	H07RN-F
Type of cable plug:	No plug