



Projects & Development India Limited

(A Govt. of India Undertaking)

Post Box No.125,A-14, Sector-1 , Noida - 201301 ,
Dist. Gautambudh Nagar , Uttar Pradesh
Phone - 0120-2529842/43/47/51/53/54
Fax - 01202529801/2541493
GSTIN No: 09AABCP1722G1ZP
CIN:U74140UP1978GO1028629

INVITATION TO BID

To : Open Tender (e-publishing)	ITB Number	11/PNMM/E/2423/2017-18/100993
	Type of Bid	Two Part
	Type of Opening	Public Opening
	Date of Issue	13.03.2018
	Bid Closing Date	26-03-2018 Time : 11:30:00 AM
	Tech. Bid Opening Date	27-03-2018 Time : 3 :30:00 PM
	Price Bid Opening Date & Time	TO BE INFORMED LATER ON
	Venue of Bid Opening	PDIL BHAWAN,A-14, SEC-1, NOIDA
	Earnest money Deposit	RS. 8000/-
	Delivery/Completion Period	THREE(03)MONTHS FROM EFFECTIVE DATE O

Projects & Development India Limited (PDIL) is a Govt. of India Undertaking under the administrative control of the Dept. of Fertilizers, Ministry of Chemicals & Fertilizers. PDIL invites bid in sealed cover addressed to Addl. General Manager&H.O.D (M.M), ITB reference no. and bid closing date & time duly super scribed on the cover for the under mentioned job, subject to the terms and conditions and scope of work attached here in.

SL. No.	Material/HSN Code/ SAC Code	Description	Quantity	Unit
10		Revamp of Fire Fighting System	1	AU

ENCL :

- 1)Pre-Qualification Criteria-Annexure-I
- 2)Instruction To Bidders-Annexure-II
- 3)General Conditions of Purchase-Annexure-III
- 4)Technical Scope-Annexure-IV,
- 5)Preamble to Schedule of Rate-Annexure-V
- 6)Schedule of Rate-Annexure-VI,
- 7)Drawing and Specifications-Annexure-VII



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GSTIN No: 09AABCP1722G1ZP

- 8)Check List-Annexure-VIII,
- 9)Self Declaration-Annexure-IX
- 10)Format for details of payment-Annexure-X,
- 11)PBG format-Annexure-XI

For & on behalf of
Projects & Development India Ltd.

(P. R. Sahu)

Addl.General Manager(MM)

Sub.: Revamp of Fire Fighting System & Miscellaneous Works at PDIL Bhawan, NOIDA

LIST OF ANNEXURE

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ANNEXURE-I

PRE-QUALIFICATION CRITERIA (PQC)

1.0 Technical Criteria

1.1 Bidder must have experience of having successfully completed similar works during the last 07 (Seven) years ending last day of the month previous to the one on which ITB is invited.

(The "similar works" mean : - Supply & erection of fire fighting system works within industrial or commercial or official building).

i) The Bidder should have successfully completed one similar work of value not less than Rs.5.00 Lakh

Or

ii) Two similar completed work order of value not less than Rs.3.12 Lakh each

Or

iii) Three similar works of value not less than Rs.2.50 Lakh each,

during the last 07 (Seven) years ending last day of the month previous to the one on which NIT are invited.

For this purpose, bidder shall submit copy of Work Order and its Completion certificate. The value of work, stipulated completion period, commencement & completion date shall be mentioned and the completion certificate for works shown as similar work shall be specified in the work order submitted by bidder.

Cost of work shall mean gross value of completed work, including the cost of materials supplied by the client.

2.0 Financial Criteria.

The Bidder should have average annual financial turnover of value of Rs.1.87 Lakh during last three financial years ending 31st March'2017 (copies of audited Financial Statement/Turnover certificate from a chartered accountant firm to be enclosed).

INSTRUCTION TO BIDDERS

- 1.0 *A bidder who meets the Pre-Qualification Criteria (PQC) as per ITB and intends to quote against this ITB may download the bidding document from PDIL website <http://pdilin.com> OR Central Public Procurement Portal <https://eprocure.gov.in/cppp> and submit the Bid complete in all respect as per terms & conditions of contract on or before the bid closing date and time.*
- 2.0 **Submission of Bid** : Bidders are required to submit their bids under three envelopes as detailed below:

Envelope (A)

- 1) Earnest Money Deposit (EMD) as per clause No 6.0 below.
OR
A copy of valid Registration Certificate, in case of NSIC/MSE registered Companies.
- 2) Annexure -X Format of Bank Details (RTGS) for on line payment, all the details duly filled in.

Envelope (B) : Un-priced Technical and Commercial Bid along with the following documents (photocopies) shall be in this envelope:

- a. Documents in support of 'Pre-Qualification Criteria for Bidders' indicated in Annexure-I of ITB as per the requirement.
- b. Complete ITB documents duly signed & stamped in each page with "Deviations"/"Exception" sheet (if any) and all Annexure duly filled in.
- a. **Price Confirmation Copy** - A copy of Priced offer {Annexure-VI (all pages)} , keeping price blank (hiding the price) and in place indicating "Quoted" or "√", as a confirmation of price quoted against the enquired item and applicable rate of GST in % with item HSN/SAC Code, shall be submitted
- b. Copy of Check List as Annexure-VIII enclosed duly filled by the bidder making all the points clear and not leaving any voids.
- c. Photo copy of PAN card.
- d. Copy of GST registration certificate

Any other document as per the requirement specified in the ITB.

Envelope (C) : Price Bid i.e. Annexure-VI, Schedule of Rates (SOR with quoted rates in Rs. And applicable rate of GST in % with item HSN/SAC Code, duly signed and stamped

All the above three envelopes should be super scribed with respective **Envelope no., ITB No. and closing date of the bid**. These three envelopes should be sealed and placed in a fourth envelop which should be addressed to the under mentioned and super scribed with our **ITB No. on the cover of your quotation with due date**. You are requested to clearly mention the details enabling us to identify your quotation for the job under reference. Sealed quotations must be submitted addressed to:

To,
Addl. General Manager &HOD (MM)
Projects & Development India Limited
PDIL Bhawan, A-14, Sector-1, Noida – 201 301, Gautam Budh Nagar, (U.P.)
e-mail: prsahu@pdilin.com ; sbanerjee@pdilin.com

ANNEXURE-II

3.0 Opening of Bids

Bid opening will be Public. Envelope A and B only will be opened on Technical Bid Opening Date. Price Bids (Envelope C) of only those bidders will be opened which will be considered technically and commercially acceptable.

4.0 Evaluation of Bids

Bids shall be evaluated for Pre-Qualification Criteria (PQC) first and Techno-Commercial Bid Evaluation shall be carried out, only for those Bids which shall meet the Pre-Qualification Criteria (PQC).

Bids shall be scrutinized on Techno-Commercial parameters. Bids having unacceptable deviation may be rejected at this stage. However, clarifications shall be sought from bidder for any shortcoming found in their Bid at this stage.

The PRICE BID shall be opened only of those bidders who will be technically and commercially suitable.

5.0 Price Evaluation Criteria :

Price Evaluation of Bids shall be done considering the quoted prices, by the bidder in the Schedule of Rate, i. e Annexure-VI along with taxes and duties, and order / contract shall be awarded on overall lowest (L1) quoted bidder.

In case of any discrepancy, unit rate shall prevail for calculation to arrive at the total price.

In case a bidder does not fill up any amount and leaves it blank or writing 'N/A' or put '-' against any item of Price Schedule, it shall be deemed that cost of such item (s) is included in other item by the bidder elsewhere in the quoted price.

Incomplete Price Schedule may result into rejection of bid

6.0 Earnest Money Deposit (EMD)

Earnest money deposit shall be submitted by way of Demand Draft/ Banker's Cheque only drawn on any Scheduled/ Nationalized Bank in favour of 'Projects & Development India Ltd', Noida. **Quotation/Bid without EMD may not be considered.** However, NSIC/MSE registered Companies are exempted from submission of EMD provided a valid Certificate in this regard is submitted.

6.1 EMD shall be refunded:

- To the unsuccessful bidders after acceptance of order by the successful bidder(s).
- To the successful bidder(s) after deposition of Security money/ confirmation by the Bank of the Security cum Performance Guarantee submitted by bidder

No interest shall be payable on EMD.

6.2 EMD may be forfeited without prejudice to any other right or remedy of PDIL including but not limited to following circumstances:

a) If a bidder withdraws his bid during the period of bid validity specified by the bidder

OR

b) In the case of successful bidder, if the bidder fails to accept the order

OR

c) If a bidder is found to have furnished Mis-representation or wrongful declaration/ presentation of qualifying data and other facts in their Bid.

ANNEXURE-II

7.0 Validity of Bids:

Prices quoted should remain valid for our acceptance for a minimum period of 90 days from the date of opening of technical bids. PDIL will not allow any revision in prices within validity period after sealed tender are opened.

- 8.0 If at any later date, it is found that documents, information and data submitted by the Bidder in the Bid, and based on which the Bidder has been considered eligible or successful or has been awarded the Contract is incorrect or false to the extent that had the correct or true information been made available to the OWNER at the time of Bid evaluation, the bid would have been declared ineligible or unsuccessful, the Bidder shall be forthwith disqualified or, as the case may be, the contract awarded based on such incorrect or false information shall be cancelled and the EMD/PBG/Security Deposit shall be liable to be forfeited.
- 9.0 Bidders are required to carefully go through the entire scope of ENQUIRY, terms and conditions, and other requirements before quoting. They should feel free to contact PDIL before submission of bid if they have any query on it. Once the bid is submitted, PDIL will presume that the bidder has understood thoroughly the Scope of Supply along with terms & conditions and all these are acceptable to them.
- 10.0 Bids shall be typed or written in indelible ink and must be free from corrections / erasing / overwriting etc. Any changes made must be authenticated with initial by the Bidder.
- 11.0 Bid shall be ideally in conformity to the Scope of supply/work along with all Terms & conditions, stipulated in the ENQUIRY. PDIL shall appreciate to receive a Bid having no deviation. However, under unavoidable circumstance, a Bidder may submit Deviations in a separate sheet, which PDIL at its own liberty may accept or reject. Deviations found elsewhere inside the Bid document shall not be considered. Deviations including condition(s), if any, found in the Price bid shall liable for rejection of a Bid in totality.
- 12.0 PDIL reserves the right to reject any or all the bids without assigning any reason whatsoever and does not bind itself to accept the lowest or any other bid. All bids in which any of the prescribed conditions are to be fulfilled or are incomplete in any respect are liable to be rejected. PDIL is at liberty to take any of the following actions in case of this ITB:
- a) to cancel the tender without reference to the bidders.
 - b) to postpone the due date and time.
- 13.0 Bidders shall not be entitled to claim any costs, charges, expenses or incidentals for or in connection with the preparation and submission of their bids even though Project & development of India Limited may withdraw the enquiry/tender or reject all bids.
- 14.0 **Site Visit:** If needed, Bidder may visit the site at PDIL Bhawan, A-14, Sector-1,NOIDA before quoting their rates. For site visit and any clarifications please contact to:

AGM & HOD (P&MH)
Projects & Development India Limited
A-14, Sector-1, Gautam Budh Nagar, Noida – 201 301 (UP),
Phone:0120-2529838
FAX: 0120-2529801
e-mail : praveenkumar@pdilin.com ; dmaji@pdilin.com

ANNEXURE-II

- 15.0 Bids submitted thro' FAX and e-mail will not be accepted. No request from any bidder to PDIL to collect the bid from airlines, cargo agents etc. shall be entertained by PDIL.
- 16.0 PDIL reserve the rights to assess bidder's capability and capacity to perform the contract
- 17.0 Bids must be submitted on or before the closing date and time well in advance. Bids received late are liable for rejection & no complaint shall be entertained in this regard for any reason whatsoever.
- 18.0 To know more about PDIL, please visit our website <http://www.pdilin.com>

GENERAL CONDITIONS OF PURCHASE

1.0 **Scope of Purchase**

Shall be as per Technical Scope & Schedule of Rate attached to the ITB, unless & otherwise it is modified, at subsequent stage of bidding.

2.0 **Price Basis:**

FOR PDIL, duly executed at PDIL Bhawan, A-14, Sector-1, NOIDA including risk in transit

3.0 **Firm Price**

Price to be quoted shall be firm and subject to no escalation whatsoever during the delivery/completion period including extended period, if any, except for any statutory variations i.e. change in the rate of tax & duty and/or inclusion of any new tax & duty.

Bid with variable price will not be accepted.

4.0 **Taxes and duties**

- 4.1 Goods & Service Tax (GST): GST shall be paid EXTRA as applicable as per GST law. Bidder shall clearly indicate the present applicable rate of GST in Percentage (%) along with corresponding HSN / SAC Code and enclose a copy of GST registration certificate along with the unpriced offer.

PDIL shall avail Input Credit against payment of GST. Same will also be considered while evaluating the price bid. Relevant necessary documents shall be provided by the Contractor to enable PDIL avail the above credit set off.

Bidders have to ensure that they should file the Tax return on time to avail input Tax credit, else the same shall be deducted from EMD/Security Deposit/Running Bills.

- 4.2 Statutory variation in taxes and duties including imposition of any new tax & duty, within the scheduled Delivery/Completion period, as per P.O, shall be paid at actual on production of documentary evidence.

- 4.2.1 In case of delay in supply, if there is any increase in the rate of tax & duty and/or there is imposition of any new tax/ duty by statutory authorities, PDIL shall restrict the payment of taxes & duties, as prevalent on the scheduled delivery/ completion period only, as mentioned in the P.O and amendment(s) there to.

- 4.2.2 If there is any decrease in applicable rate of taxes & duties &/or there is any withdrawal of any tax & duty by statutory authorities, during the delivery/ completion period including extended/amended period of P.O, shall accrue to PDIL's a/c.

- 4.3 PDIL shall not issue any form other than Road Permit, if required, on written request by the Supplier

- 5.0 **Effective date of P.O:** Shall be the date of issuance of LOI/ P.O

6.0 **Delivery/ Completion Period :**

The entire revamp job i.e. i.e. Supply, Erection, Testing & commissioning, and acceptance of the complete system shall be completed duly accepted by PDIL, within Three (03) Months from the Effective date of P.O.

ANNEXURE III

7.0 Payment Terms:

7.1 FOR SUPPLY ITEMS

- 7.1.1 80% payment shall be released within 30 days against supplied items after delivery at site on submission of original invoice along with test certificates, etc. and duly accepted & certified by engineer-in-charge.
- 7.1.2 Balance 20% payment shall be released within 30 days against supplied items after their installation, testing commissioning on submission of original invoice, test certificates, etc. and duly accepted & certified by engineer-in-charge.

7.2 FOR SERVICE ITEMS

- 7.2.1 100% payment shall be released within 30 days against service items after completion of entire job including installation, testing commissioning on submission of original invoice, test certificates, etc. and duly accepted & certified by engineer-in-charge.
- 7.3 All payments will be made by account payee cheque or direct transfer in bank account through RTGS.

7.4 Tax deduction at source

Income tax, as applicable as per income tax act, shall be deducted at source from the Supplier's bills and a certificate towards this deduction shall be issued to the Supplier.

- 8.0 Warranty/ Guarantee:** Refer Cl. No.7.0 of 'Technical Scope' Page 7 of 7 at Annexure-IV enclosed.

9.0 Security cum Performance Guarantee/Security Deposit:

- 9.1 Security cum Performance Guarantee/ Security Deposit for an amount equivalent to 10% of P.O value shall be submitted within 15 days of issuance of P.O, in the form of Demand Draft (DD)/Banker's Cheque. The same shall be valid to cover delivery/completion period plus warranty/guarantee period, if any.

Bank Guarantee (BG) for Security cum Performance Guarantee/ Security Deposit shall be entertained for value \geq Rs 1.00 lac. PBG shall be valid to cover delivery/completion period plus warranty/guarantee period plus three (03) months' claim period thereafter. PBG shall be issued by any Scheduled Commercial Bank. Format of PBG is enclosed herewith at Annexure-XI.

In the absence of submission of Security cum Performance Guarantee/ Security Deposit, the equivalent amount after adjustment of EMD amt., if any, shall be adjusted from the bills.

- 9.2 Deleted.
- 9.3 No interest shall be payable on Security cum Performance Guarantee /Security Deposit.
- 9.4 PDIL, however, reserves the right to en-cash/ forfeit the Performance Guarantee / Security Deposit, if the Supplier fails to execute the P.O and/or abide by all the terms and conditions of the P.O.
- 9.5 Performance Guarantee / Security deposit shall be refunded after 30 days of completion of Guarantee / Warranty period / completion of delivery on the certification of Engineer In Charge for due fulfillment of the contractual obligations and after adjusting the expenditure incurred by the owner, if any, on account of any failure on the part of the contractor.

ANNEXURE III

10.0 **Price reduction clause**

In the event of delay in delivery/completion beyond contractual delivery/completion period, price reduction @ 0.5% per week or part thereof subject to maximum 5% of total order value shall be recovered from supplier's / Contractor's bill(s).

11.0 **Insurance**

Necessary insurance(s) to cover accident risk for his employees loss of life, material etc. to crew or the third party to be arranged by supplier at his cost.

12.0 **Statutory obligation and Safety Rules**

The Contractor will have to follow all safety rules and measures during contract period and will be fully responsible for implementing rules, obligations and statutory provisions of government and all the consequences in the event of any eventuality.

The Contractor shall be responsible to observe and comply with all statutory requirement including contract labour act 1970, minimum wage act – 1948 and EPF act 1952 etc. including all amendments thereof in vague both of central and state government. PDIL shall be kept indemnified against any action brought against it or any violation / non – compliance of any act /acts, all expenses for compliance of above acts and regulations shall be borne by the contractor.

The Contractor shall comply with at his cost all safety norms such as Fire and Safety regulation act as applicable at site.

The Contractor shall be responsible for all risk involved in respect of their personnel and material at site and arrange proper insurance coverage at his cost.

Personnel deployed should be medically fit to work should possess good conduct and should have no past criminal record and shall maintain high standard discipline, decency and decorum. PDIL reserves the right at its sole discretion to ask for replacement of any person employed by the contractor.

13.0 **Termination**

In the event of unsatisfactory performance, PDIL reserves right to cancel part or whole of the order / contract and make alternate arrangement at any time during currency of contract on risk & costs of contractor and / or forfeit security deposit.

14.0 **Force Majeure**

The act of God, epidemic, wars, revolution, and official strike shall be treated as force majeure condition. In event of occurrence of such condition neither party shall be responsible for delay in performance provided that it is notified within 07 days of its occurrence. The Supplier shall provide justification by documentation countersigned by the local chamber of commerce.

15.0 **Arbitration**

All cases of dispute arising during execution of contract shall be resolved by mutual discussion of parties operating the Contract. In the event of failure to do so, matter will be settled as per Arbitration and Conciliation Act, 1996, as amended from time to time.

However, wherever applicable, in case of settlement of commercial disputes between PSEs inter SE and PSE(s) and Government Department(s), the same shall be settled through Permanent Machinery of Arbitrators (PMA) setup in the Department of Public Enterprises(DPEs) as per the following Clause:

ANNEXURE III

“In the event of any dispute or difference relating to the Interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party for Arbitration to the sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary/Additional Secretary, when so authorized by the Law Secretary, whose decision shall bind the Parties finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator”.

The performance under this contract, shall not stop for any reason, whatsoever, during the said dispute / proceedings, unless the service provider is specifically directed by PDIL to desist from working in this behalf.

16.0 Jurisdiction

The P.O shall be deemed to have been entered into at Noida/Vadodara/Sindri, for PDIL's different Unit, as the case may be and all cases of action in relation to the P.O shall, therefore, be deemed to have been assigned within its jurisdiction for respective Unit/location.

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Annexure -IV

TECHNICAL SCOPE FOR

REVAMP OF

FIRE FIGHTING SYSTEM

&

MISCELLANEOUS WORKS

AT

PDIL BHAWAN, NOIDA


OWNER :

PROJECTS & DEVELOPMENT INDIA LIMITED

PDIL BHAWAN, A-14, SECTOR-1, NOIDA.

DISTT. GAUTAM BUDH NAGAR (U.P.)

0	05.03.18	Issued for Tender	JKS	DM	PK(HOD)
REV	REV DATE	PURPOSE	PREPD	REVWD	APPD


	TECHNICAL SCOPE FOR REVAMP OF FIRE FIGHTING SYSTEM & MISCELLANEOUS WORKS AT PDIL BHAWAN, NOIDA.	4001-PNMP-TS-928	0
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3.0	Obligations of Owner	5
4.0	Inspection	5
5.0	Documentation	5
6.0	Testing, Pre-commissioning & Commissioning	6
7.0	Guarantee	7

LIST OF ENCLOSURES

Attachment	Description	No. of Pages
4001-PR-SOR-928	Preamble to Schedule of Rates (SOR)	7
4001-SOR-928	Schedule of Rates	27
4001-7816-001_R0	Fire Hydrant System :Conceptual Layout for Jockey Pump & By-Pass Of Booster Pump On Terrace	1
GA-SALE15062231 10	G.A. Drg. for Jockey Pump (Supplier– M/s Flowmore Ltd.)	1
0000-PNMC-DD-501-0	Jockey Pump Specification Sheet	2
PNIN-4001-7312 Rev.0	Pressure Switch	1
PNIN-4001-7064 Rev.0	Instrument Cables	1
4001-PNEL-TS-801 Rev.0	Electrical Specification for Fire Fighting System	9

	TECHNICAL SCOPE FOR REVAMP OF FIRE FIGHTING SYSTEM & MISCELLANEOUS WORKS AT PDIL BHAWAN, NOIDA.	4001-PNMP-TS-928	0
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1.0 INTENT OF SPECIFICATION

The intent of this specification is to cover new installation & revamp of Fire Fighting system & miscellaneous works of M/s Projects & Development India limited (PDIL), a Govt. of India Undertaking at location PDIL Bhawan , A-14, Sector-1, Noida, Distt. Gautam Budh Nagar (U.P). to fulfil statutory requirements of local fire authorities.

2.0 SCOPE OF CONTRACTOR

2.1 The scope of contractor includes supply, inspection, testing, packing work, transportation, unloading, handling including dismantling of existing items as required , civil works, electrical works, instrumentation works, if any, storage at work site, fabrication, erection, supporting, painting and pre-commissioning, commissioning of items of fire protection system.

2.2 The scope covered in this specification shall be as below :

The job consisting of mechanical, civil, electrical, instrumentation, shall broadly involve installation, automation, testing, & commissioning of new jockey pump (Quantity 01 No. as free issue to contractor) & accessories , supply installation & testing of piping , fire fighting, electrical, instrumentation and civil items, as mentioned in detail in Schedule of Rates and/or tender specifications.

Mechanical works, Electrical works & instrumentation works, shall be as per respective attachments as enclosed, also.

2.3 Each sheet of technical condition of supply and specification sheets shall be duly signed and stamped by competent authority and shall be enclosed alongwith offer without which the offer shall be considered incomplete and rejected without any reference.


2.4 Any deviations from the clause stipulated in the code and other enquiry documents shall be clearly mentioned in a separate "Deviation List" with proper ref. no. in the absence of any such indications, it shall be assumed that the offer complies with all the requirements in totality and such assumptions shall be strictly binding on the supplier

2.5 Bidder shall visit the site, at their own cost without any commercial implications to Owner, for assessment and quantum of work involved, and facilities available at site. before submitting the techno-commercial bid.


2.6 Bidder shall quote for the supply & installation / service items, as per the tentative bill of materials enclosed with this specification.

2.7 Bidder shall establish, operate and maintain all temporary facilities at site, such as, but not limits to site office, Fabrication shops / yard, Workshop for maintenance of construction / testing equipment, Temporary storage, including open storage yards, First aid and Basic Medical Facilities, Drinking water facilities, etc.,

2.8 Bidder to obtain prior approval of owner's engineer In-charge before supply of any material / equipment / parts from reputed supplier or TAC approved make, duly approved by Owner.

	TECHNICAL SCOPE FOR REVAMP OF FIRE FIGHTING SYSTEM & MISCELLANEOUS WORKS AT PDIL BHAWAN, NOIDA.	4001-PNMP-TS-928	0
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- 2.9 Bidder to arrange and supply all tools and tackles, pressure gauges, blinds, fasteners, pump for hydrotesting, required for the execution of jobs.
- 2.10 To arrange and supply all consumables, the cost of which shall be included in quoted rates and nothing extra shall be paid to bidder for them, required in sufficient quantity, of required quality and in time to meet the job schedule for executing the job covered under this enquiry such as but not limited to the following :
- Electrodes, water soluble paper; grease, petroleum oil, cloth/cotton waste; emery papers; wire brush, grinding wheel, cutting wheel ; teflon sealing tapes , sponge, cardboard, non-asbestos gasket sheets , temporary fasteners, clips, cleats, packing materials, gaskets, etc., as necessary.
- 2.11 To deploy skilled, semiskilled and unskilled manpower in requisite numbers and to ensure that the work is done correctly, properly and expeditiously as per time schedule and according to specification and direction of owner's representative.
- 2.12 To check for quantity compliance between bill of materials and drawings for piping, structurals etc. and intimate to owner sufficiently in advance regarding discrepancies, if any.
- 2.13 Supply, fabrication, inspection, testing, packing work, transportation, unloading, handling, storage at site.
- 2.14 To carry out dismantling of existing items, as required.
- 2.15 To carry out civil works, including providing pump foundation, etc.
- 2.16 To carry out electrical works, including providing power supply to motor, cabling, etc. as per electrical specification enclosed.
- 2.17 To carry out instrumentation works, including providing pressure switch, cabling, etc. as per instrumentation specification enclosed.
- 2.18 To maintain all the records for men, materials and execution of job as required by law as well as owner..
- 2.19 To carry out clearing & cleaning the work areas at site , of all waste materials, contractor's tools / tackles, fabrication yard / shop, temporary structures after the completion of work as per job specification.
- 2.20 Reconciliation of materials issued to contractor, as instructed by owner.
- 2.21 Bidder shall not use naked light at any place at site without the written consent of Owner.
- 2.22 Bidder shall be responsible for quality assurance (QA), maintain all records of quality control (QC), execution & monitoring of the job at site. Quality Assurance (QA) shall mean the organisational set-up, procedures as well as test methods and facilities developed by bidder in order to assure the requirements specified in tender. Quality control (QC) shall mean all the tests, measurements, checks, and calibrations to be carried out in bidder's shop in order to compare the actual characteristics of the equipment with the specified ones, as well as the documentation (certificates/records) containing the data or results of these activities.

	TECHNICAL SCOPE FOR REVAMP OF FIRE FIGHTING SYSTEM & MISCELLANEOUS WORKS AT PDIL BHAWAN, NOIDA.	4001-PNMP-TS-928	0
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- 2.23 Bidder shall ensure and shall be solely responsible for the safety of his manpower, tools, tackles & all items required for fabrication, erection & execution of the job at site.
- 2.24 Bidder shall provide, maintain & fulfill the requirements of safety of manpower & materials at the site of job execution as per local statutory rules & regulations.
- 2.25 This specification shall be read by bidder in conjunction with all the technical & commercial conditions provided in the enclosures, attachments & standards of the tender document.

3.0 OBLIGATIONS OF OWNER

- 3.1 To provide to contractor the facilities of construction water, electrical power at single point, empty space for storage of materials, fabrication space, work permits, gate passes for manpower & materials, free issue materials and technical drawings & documents, drinking water, toilet facilities, at site.

4.0 INSPECTION

- 4.1 Inspections of supply & installation items shall be as per relevant codes & tender specifications.
- 4.2 Inspection shall include QA/QC systems of all products and services of the tender / contract including sub-contracted jobs, if any, i.e. documentation, materials of supply, shop and site fabrication, transportation and site works.
- 4.3 Inspection of supply materials at manufacturer / sub-supplier's / sub-vendor's shop / premises shall be by original equipment manufacturer (OEM) / bidder.
- 4.4 Inspection of works at site shall be by owner's representative who shall check supply materials, fabrication & erection work, progress & workmanship, damages that might have been caused during transportation & erection in compliance with tender specifications.

5.0 DOCUMENTATION


- 5.1 Bidder shall submit drawings and documents to owner, but not limited to the following :

Following documents of supply items shall be submitted to owner.

- a) Purchase Order No. with sub-vendor's name.
- b) Material Specification and Grade
- c) Size (NPS) and Sch.No./Thickness
- d) Quantity
- e) Heat and Lot No.
- f) Results of chemical analysis
- g) Mechanical test results (as per applicable clause)
- h) Non-Destructive Test Results (as per applicable clause)

Following documents of site fabrication & installation items shall be submitted to owner.


- i) Welding Procedure Test Certificate.
- ii) Records of welding qualification at site
- iii) Detailed fabrication & installation schedule at site.

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- iv) Hydraulic Test Certificate at site.
- v) Inspection Reports at site.

6.0 TESTING, PRE- COMMISSIONING & COMMISSIONING

- 6.1 Bidder shall be responsible for Mechanical Completion which shall mean the time when all construction, erection & installation work as per finally approved documents and pre-commissioning related to the fire fighting system is completed in accordance with the technical drawings/specifications, and all mechanical and pressure tests, including but not limited to hydro-testing, non-operating adjustments, cold alignment checks, final cleanup, field checking of valves, calibration of all instruments, instrument loop checking and testing, monitoring / control / safety systems checking and testing, and all pre-commissioning activities have been completed.
- 6.2 Fabricated & erected piping materials shall be hydrotested as per TAC/ technical conditions & instructions of owner's representative. After hydrotesting, all blanks, temporary spool pieces etc. shall be removed, replaced by permanent fixtures before fixing permanent gaskets, as required.
- 6.3 All the necessary materials and arrangements required (such as but not limited to blanks, temporary supports, temporary spools in place on in-line instruments, pressure gauges, pumps suitable for required hydrotest pressure, including connected piping and accessories for pumps, temporary fasteners etc.) shall be in the scope of contractor. The pressure gauges shall be used after due calibration and certification by the owner's representative.
- 6.4 During testing all on-line instruments may have to be removed or blanked as required by owner. The above instruments shall be installed back in the piping system subsequent to testing activities.
- 6.5 Bidder shall make suitable arrangement for safe keeping of machines, components such as but not limited to instruments, seals, bearings, rotors, coupling etc. during execution and first maintenance. After erection, proper alignment using packing shims, if required and grouting, the machinery equipment shall be flushed and/or, cleaned by bidder. Cleaning of the machine including fixing of man/hand inspection holes, if any, with proper gasket, charging and draining of flushing oils/grease, which may be required to be done more than once and collection of the drained oil in containers, shall be done by bidder. All temporary arrangements including piping, equipment etc. shall be supplied by bidder without any extra cost implication to owner.
- 6.6 Dismantling and re-erection of piping, internals (including refixing if found displaced or loose) during pre-commissioning & first maintenance of pump / machinery, shall be done by bidder to the satisfaction of owner and shall be capable to withstand maximum working pressure.
- 6.7 Bidder shall be responsible to perform commissioning of the system and to provide necessary facilities of manpower, tools & tackles, consumables, without any extra cost implication to owner. during commissioning of the fire fighting system including the Performance Tests, as necessary to bring the fire fighting system to a state of readiness for continuous operation.
- 6.8 Bidder shall be responsible for checking, testing, calibration and adjustment of instruments, equipment and systems including valves and safety devices, functioning of instruments & pump panel, before actual operation of the item,

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as required to be demonstrated to the satisfaction of owner's representative and without any extra cost implication to owner.


7.0 GUARANTEE

- 7.1 All items shall be guaranteed against poor workmanship and defective material.
- 7.2 The bidder shall guarantee that supply items shall be free from defects , faults, deficiency in design, materials and workmanship. If any defects be noticed in design, material and/or workmanship within 24 months from the date of supply or 12 months from the date of commissioning whichever is earlier, the bidder shall arrange rectification / replacement / modification of the defect at site within a reasonable period without any cost to the owner / purchaser.

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Annexure-V


PREAMBLE TO SCHEDULE OF RATES (SOR)
FOR
REVAMP OF FIRE FIGHTING SYSTEM
& MISCELLANEOUS WORKS
AT
PDIL BHAWAN, NOIDA

	PREAMBLE TO SCHEDULE OF RATES (SOR) FOR REVAMP OF FIRE FIGHTING SYSTEM & MISCELLANEOUS WORKS AT PDIL BHAWAN, NOIDA.	4001-PR-SOR-928	0
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A. PREAMBLE - GENERAL

1.0 General

- 1.1 The bidder's (also called tenderer / contractor / fabricator) attention is drawn to the Conditions of Contract, Specifications, Drawings, which are to be read in conjunction with the Bill of Quantities (BOQ / Schedule of Rates (SOR)).
- 1.2 This Preamble has been prepared in order to assist the bidder in pricing the Bill of Quantities (BOQ) / Schedule of Rates (SOR) and to serve as a guide to the measurement of quantities.
- 1.3 Review / approvals related to technical specifications , BOQ/SOR (provided in respective sections), correspondences with bidder(s), billing certification of each discipline shall be done by engineer-in-charge of the respective discipline, namely, mechanical works by engineer-in-charge (mechanical), electrical works by engineer-in-charge (electrical), instrumentation works by engineer-in-charge (instrumentation) and civil works by engineer-in-charge (civil).
- 1.4 The Contractor should allow against the items or in the prices for everything contained in these Bills of Quantities which has a monetary value.
- 1.5 Lump Sums shall not be given where unit rates are applicable. Unit rates may be used reciprocally in the settlement of accounts unless conflict between them occurs. The Contractor is, therefore, to ensure that identical items occurring in separate bills are not priced at different rates unless this is his deliberate intention.
- 1.6 The Contractor shall check against the summaries that each copy of the Bills of Quantities is complete in the number of pages and in the reproduction of each page.
- 1.7 The Contractor's prices and extension shall be entered in waterproof ink.
- 1.8 The various documents collectively referred to herein as the Bills of Quantities jointly constitute the Bill of Quantities referred to in the Conditions of Contract.
- 1.9 Items in the Preambles Section of these Bills of Quantities are deemed to qualify and to form part of every description of measured work to which they refer including composite descriptions.
- 1.10 No amendment which has not been authorised in writing by the Engineer shall be made to these Bills of Quantities.

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1.11 The Contractor shall not use these Bills of Quantities as a construction programme or for the purposes of ordering materials or arranging sub-contracts.

1.12 "Approved", "Directed", "Selected", and similar expressions shall relate to the Engineer's decision.

2.0 Prices also deemed to have been Included in all the items of BOQ by the Bidder


Rates shall be comprehensive and include for the following:

- i) All obligations imposed by the Contract.
- ii) Complying in every respect with the requirements and the considerations of the specifications and drawings.
- iii) All considerations arising from the definitions incorporated into each preamble section.
- iv) Labour for fixing and all associated costs
- v) Materials and goods and all associated costs.
- vi) Fitting and/or fixing materials and goods in any position, hoisting to any height/depth, temporary storage.
- vii) Use of scaffolding, plant, equipment and tools
- viii) Any additional labours associated with measured items.
- ix) All setting out and alignment testing, commissioning, setting to work to the satisfaction of the Owner's representative.
- x) Provision of performance security , Insurance of works + and contractor's Equipments , Damage to persons and property, Third Party Insurance , any other Insurance, defects liability , any statutory approval for the tendered works.

All measurements are net and the rates shall include for all laps, waste, working space and trade or traditional allowances.

The pricing of materials shall take account of the following:

- a) Pricing Preambles, Drawings and Specifications shall apply reciprocally between sections of the works unless otherwise described.
- b) Materials shall be of the best quality available unless otherwise described, meeting the approval of the Engineer.
- c) All materials shall be transported, handled, stored and fixed in accordance with the printed instructions or recommendations of their manufacture or suppliers.

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- d) Protection of completed work, all temporary and necessary safety procedures, directions, notices, barriers and any other requirement to prevent shock or danger due to charged conductor, cables or equipment.

Where the word "allow" is used the cost of the items shall be the responsibility of the Contractor.

The Contractor shall obtain from all sub-contractors their requirements for all recesses, chases, holes and the like in order that they may be built in or formed as the work proceeds. No additional charges shall be allowed for cutting recesses, chases and holes for cable entry, fixing bolts and the like after the construction of the works and such works shall also be made good at the contractor's cost.

In the event of their being any discrepancies between details on drawings, descriptions and descriptions in the Bills of Quantities then the item shall be deemed to have been priced in accordance with the drawings. Certain sections of the works which are dependent upon site conditions may not represent the eventual extent of the works to be executed and may be subject to complete remeasurement. No claim for increased unit rates or for any extension to the contract period caused by variations to the quantities or work actually executed will be admitted.


The contractor should leave the whole of the works ready for immediate operation to the satisfaction of the Engineer including the following:

- a) Cleaning up the site works area and leaving all locations clean.
- b) Removal of rubbish, debris or excess material, packing cases and cleaning all areas of the site where the Contractor has done work.

3.0 Rates and Sums to be for Works Complete:

Notwithstanding any limits which may be implied by the wording of the individual items and/or the explanations in this Preamble, it is to be clearly understood by the Bidder that the rates and sums which he enters in the Bill of Quantities are to be for the work finished complete in every respect and he will be deemed to have taken full account of all requirements and obligations, whether expressed or implied, covered by all parts of this Contract and to have priced the items herein accordingly. The rates and sums must therefore include for all incidental and contingent expenses and risks of every kind necessary to construct, complete and maintain the whole of the Works in accordance with the Contract.

No claim will be considered for further payment in respect of any work or method of execution which may be described in the Contract or is inherent in the construction of the Work and detailed in the Drawings on account of (a) items having been omitted from the Bill of Quantities or (b) any

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preamble or (c) no mention of such work or method of execution having been made in the Preamble.

Items against which no rate or sum is entered by the Bidder, whether quantities are stated or not, will be regarded as covered by other rates in the Bill of Quantities (BOQ) / Schedule of Rates (SOR).

The quantities for work and materials stated in the Bill of Quantities are not to be considered as limiting or extending the amount of work to be done or materials to be supplied by the Bidder.

4.0 Protection of Work and Cleaning Up on Completion

The Contractor shall allow in his rates for protecting existing conditions and completed work from damage, making good all damage due to any cause whatsoever, for clearing away rubbish as it accumulates and leaving the site and buildings in a tidy condition to the satisfaction of the Engineer. He shall allow in his rates for cleaning up floors, walls, doors and the like on completion of the work in such a way as to make the building fit for immediate use to the satisfaction of the Engineer.

5.0 Existing Services & Installations

The rates entered by the Contractor in the Bill of Quantities will be deemed to allow for any additional costs incurred in working adjacent to or across existing services and installations which serve the Employer at present.

6.0 Testing of Materials


The Contractor shall allow in his rates for all costs incurred in taking of samples, and laboratory testing of materials or equipment as required by the specification.

7.0 Application of Preamble to Additional Work

The clauses of this Preamble will also apply to any additional or varied work which the Bidder may be required to execute under this Contract except where specifically amended or supplemented by the instructions given to him to carry out such work.

8.0 Method of Measurement

The works as executed will be measured for payment in accordance with the method adopted in the Schedule of Rates and under the items as therein set forth notwithstanding any custom to the contrary. The net measurement or weight of the finished work in place will always be taken and,

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except where otherwise stated or separate items are provided, no allowance will be made for cutting, waste, laps, circular work etc.

Unless otherwise mentioned in the description of the item, this Bill of Quantities shall be applicable for work in any depth, height, position or condition.

9.0 Units of Measurement

The units of measurement to be used in connection with the Works are to be based on the metric system and the Drawings and Documents have been drawn with metric measurements only.

10.0 Equipment and Control Gear

The rates for Electro-mechanical equipment e.g. pumps, diesel engine, Gear box, coupling, motors, monitors, etc. and control gear, main distribution board, distribution boards, sub-distribution boards, meters, switch fuses, etc. are to include for supply, fixing, alignment and supports for the complete installation and for suitable mounting boards, frames, supports, housing and cabinets where required, all complete including power connections.

B. Piping Work

1.0 General


1.1 This section shall be applicable for item rate work and for variations.

1.2 This preamble covers entire piping work for fire fighting system.

1.3 This preamble shall be read in conjunction with the specifications, conditions of contract, drawings and all other documents accompanying the tender papers.

1.4 For all items of work the rates shall be comprehensive and all inclusive. The rates shall include for all matters and things necessary for satisfactory completion and maintenance of the work in proper working order and to the satisfaction of the Engineer including testing, making samples, etc., and all that have been indicated in the specifications or other Tender Documents either directly or indirectly, and cover for all obligations of the Contractor under the Contract. No claim for additional payment shall be allowed for any error or misunderstanding by the Contractor of the work involved.

1.5 Unless otherwise mentioned in the description of the item, this Schedule of Quantities shall be applicable for work in any height, position or condition.

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1.6 Unless otherwise stated, method of measurement as described in the latest editions of BIS: 1200 with its parts corresponding to different sections of work shall be followed. In case of any dispute in this matter, the decision of the owner shall be final, binding and conclusive.

1.7 The following notations have been used throughout the Bill of Quantities.

m	-	Metre
mm	-	Millimeter
sqm	-	Square Metre
sqcm	-	Square Centimeter.
sqmm	-	Square Millimeter
cum	-	Cubic Metre
No.	-	Number/Numbers
dia.	-	Diameter
Kg.	-	Kilogram/s
T	-	Metric Tonne
L.S.	-	Lumpsum
Pt.	-	Point/Points
Set	-	Set/Sets
c/c	-	Centre to Centre
@	-	At the rate of
SWG	-	Standard Wire Gauge

1.8 The Contractor shall be deemed to have full knowledge of all his obligations under the Contract and shall be deemed to have made full allowance for complying with all such obligations in his offer.

1.9 The quantities provided in the Bill of quantities are tentative only. The quantities of items for supply and/or erection and other activities shall be as measured for installation and /or installed as per site conditions and certified by owner.


1.10 Quantity of any Individual item may vary to any extent as per actual requirement of site conditions.

2.0 Trade Preamble


2.1 Aboveground Pipe Laying / installation

Aboveground Pipe laying as per specifications shall be measured in Running Metre as actually laid measured along the centre line of the pipe line for an average depth. The bends, junctions, specials, fittings, flanges, valves, strainers along with bolts-nuts, washers, gaskets, surface preparation, painting, as applicable, shall be included in Running Metre length of the pipe.

2.2 The quoted rates for aboveground piping system shall include providing all equipment, labour and materials, necessary to carry out the above works complete in all respects as specified and/or instructed ; installation of bends, metres, other fittings and similar items, etc. as shown and specified ; testing & commissioning of completed pipe lines & systems;

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- 2.3 Aboveground and underground Cable Laying / installation shall be measured as specified in electrical & instrumentation specification enclosed in tender document.
- 3.0 Formula for new rate of similar item is as below, if it is not available in Purchase Order / Work Order :
- New rate of similar item
= (New size of similar item / existing nearest size of similar item) x existing rate of similar item of next higher size available

	Schedule of Rates (SOR)	4001-SOR-928	R0
	Revamp of Fire Fighting System & Misc. Works at PDIL Bhawan, Noida	Doc. No.	Rev.

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
A)	Section-A : Supply for Mechanical Works						
A-1.0	Pipe						
A-1.1	Pipe, 6"NB, IS-1239-Part-I, Heavy, BE	m	2				
A-1.2	Pipe, 4"NB, IS-1239-Part-I, Heavy, BE	m	1				
A-1.3	Pipe, 3"NB, IS-1239-Part-I, Heavy, BE	m	6				
A-1.4	Pipe, 2"NB, IS-1239-Part-I, Heavy, BE	m	8				
A-1.5	Pipe, 1"NB, IS-1239-Part-I, Heavy, BE	m	3				
A-2.0	Nipple						
A-2.1	Nipple, 3 / 4"NB, IS-1239-Part-I, Heavy,	No.	2				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
	Threaded , 100 mm length						
A-2.2	Nipple, 1 / 2"NB, IS-1239-Part-I, Heavy, Threaded , 100 mm length	No.	4				
A-3.0	Elbow						
A-3.1	Elbow 90 deg, 6"NB, IS-1239-Part-II, Heavy, BE	No.	2				
A-3.2	Elbow 45 deg, 6"NB, IS-1239-Part-II, Heavy, BE	No.	1				
A-3.3	Elbow 90 deg, 3"NB, IS-1239-Part-II, Heavy, BE	No.	2				
A-3.3	Elbow 90 deg, 2"NB, IS-1239-Part-II, Heavy, BE	No.	2				
A-3.4	Elbow 45 deg, 2"NB, IS-1239-Part-II, Heavy, BE	No.	1				
A-3.5	Elbow 90 deg, 1"NB, IS-1239-Part-II, Heavy, BE	No.	2				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
A-4.0	Flange						
A-4.1	Flange, 4"NB, IS-2062, Drilling ASME B16.5, 150#, RF	No.	1				
A-4.2	Flange, 2"NB, IS-2062, Drilling ASME B16.5, 150#, RF	No.	5				
A-4.3	Flange, 2"NB, IS-2062, Drilling ASME B16.5, 150#, FF	No.	1				
A-4.4	Flange, 1"NB, IS-2062, Drilling ASME B16.5, 150#, RF	No.	2				
A-4.5	Flange, 1 1/4"NB, IS-2062, Drilling ASME B16.5, 150#, FF	No.	1				
A-4.6	Blind Flange, 2"NB, IS-2062, Drilling ASME B16.5, 150#, RF	No.	1				
A-5.0	Reducer						
A-5.1	Ecc, Reducer, 3 x 2", IS-1239-Part-II,	No.	1				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
	Heavy, BE						
A-5.2	Conc, Reducer, 2" x 1 1/4", IS-1239-Part-II, Heavy, BE	No.	1				
A-5.3	Conc, Reducer, 4" x 3", IS-1239-Part-II, Heavy, BE	No.	1				
A-6.0	Valves						
A-6.1	Gate Valve, 1/2"NB, 800#, SW, Body Carbon Steel, API-602	No.	2				
A-6.2	Gate Valve, 3/4"NB, 800#, SW, Body Carbon Steel, API-602	No.	1				
A-6.3	Gate Valve, 1 "NB, 150#, RF, Body Carbon Steel, API-600	No.	1				
A-6.4	Gate Valve, 2"NB, 150#, RF, Body Carbon Steel, API-600	No.	1				
A-6.5	Check Valve, 2"NB, 150#, RF, Body Carbon Steel, API-600	No.	1				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
A-6.6	Foot valve with strainer, SS mesh, 4"NB, 150#, RF, Body Carbon Steel / Cast Iron, API-600 or equivalent	No.	1				
A-7.0	Gasket						
A-7.1	Gasket, Non asbestos for Flange, 4"NB, Drilling ASME B16.5, 150#	No.	1				
A-7.2	Gasket, Non asbestos for Flange, 2"NB, Drilling ASME B16.5, 150#	No.	7				
A-7.3	Gasket, Non asbestos for Flange, 1"NB, Drilling ASME B16.5, 150#	No.	2				
A-7.4	Gasket, Non asbestos for Flange, 1 1/4"NB, Drilling ASME B16.5, 150#	No.	1				
A-8.0	Studs & Nuts						
A-8.1	Stud with 2 Nuts , 1/2" dia x 85mm length	No.	12				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
A-8.2	Stud with 2 Nuts , 5/8" dia x 95mm length	No.	36				
A-9.0	Paint						
A-9.1	Primer Paint, Zinc Phosphate	Litre	5				
A-9.2	Final Paint, Synthetic Enamel, Fire Red colour	Litre	10				
A-9.3	Paint solvent Turpentine Oil	Litre	5				
A-10.0	Sprinklers heads						
A-10.1	Sprinkler head for Sprinkler System : (as per NFPA-13) , quartzoid bulb type with bulb, yoke and the deflector, Sprinkler body material of brass, 15 mm dia Nominal Bore , End connection NPT Male	No.	10				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
A-11.0	Supports						
A-11.1	Supports / Structural	kg	50				
A-12.0	Special Supports						
A-12.1	Shock absorber support for installation beneath base frame of jockey pump	No.	6				
A-13.0	Fire Hydrant items						
A-13.1	Hose box , Length 750mm x Height 600mm x Width 250mm, Material of construction FRP, Transparent Glass On Double Door , Key Lock, Painted Red along with fasteners & accessories	No.	12				
A-13.2	Flexible Fabric Fire Hose (63 mm dia, 15 mtr. length) as per IS 636, bound to SS female & male half coupling as per IS-903, bound to the hose by wires.	No.	25				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
A-13.3	Rubber Hose Reel ,with Swing type drum , bracket and a suitable fixture along with rubber hose 20 mm dia , 36 m long, gun metal shut off Nozzle and clamp, as per IS-884 along with fasteners & accessories	No.	3				
A-13.4	Rubber hose 20 mm dia , 36 m long with gun metal shut off Nozzle and clamp, as per IS-444/IS-884	No.	3				
A-13.5	Washer for hydrant valve	No.	30				
A-14.0	Fire Extinguishers						
A-14.1	Portable Fire Extinguisher , 2 Kg , DCP, Class ABC , IS:15683 along with brackets, fasteners & accessories	No.	20				
A-14.2	Portable Fire Extinguisher , 4 Kg , DCP, Class ABC , IS:15683 along with brackets, fasteners & accessories	No.	10				
A-14.3	Portable Fire Extinguisher , 6 Kg , DCP, Class ABC , IS:15683 along with	No.	3				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
	brackets, fasteners & accessories						
A-14.4	Portable Wheeled Trolley Fire Extinguisher , 4.5 Kg , CO2, Class BC, IS:2878 along with accessories	No.	7				
A-14.5	Portable Fire Extinguisher , 2 Kg , CO2, Class BC, IS:2878 along with brackets, fasteners & accessories	No.	1				
A-14.6	Portable Wheeled Trolley Fire Extinguisher , 50 Ltrs., AFFF Foam along with accessories	No.	2				
A-14.7	Portable Fire Extinguisher , Clean Agent, 4.5 Kg along with brackets, fasteners & accessories	No.	1				
A1	Sub-total : Section-A : Supply for Mechanical Works						

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
B)	Section-B : Supply for Instrumentation Works						
B-1.0	Instruments , Cables & Fittings						
B-1.1	Pressure gauge, round dial type, Range upto 15kg/cm2, 1/2" threaded connection as per tender specification	No.	4				
B-1.2	Pressure gauge, round dial type, Range upto 10kg/cm2, 1/2" threaded connection as per tender specification	No.	9				
B-1.3	Pressure switch, 1/2", threaded connection as per tender specification	No.	2				
B-1.4	Cable for instrumentation works as per tender specification	m	300				
B1	Sub-total : Section-B : Supply for Instrumentation Works						

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
C)	Section-C : Supply for Electrical Works						
C-1.0	Electrical						
C-1.1	Local Control Station						
C-1.1.1	Supply of weatherproof Local control station in die cast aluminium alloy (LM-6) enclosure along with suitable rain protection hood of following type as per technical specification, data sheet, codes & standards.						
a.	Start-Stop Push Button for LT motor rated 7.5 KW.	No.	1				
C-1.2	Power & Control Cables						
C-1.2.1	1.1 KV Grade, XLPE Insulated, PVC inner Sheath, FRLS PVC outer sheathed cables as specified in Electrical Specification						
a.	3C x 10 sq. mm (Al)	m	125				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
b.	5C x 2.5 sq. mm (Cu)	m	125				
C-1.3	Cable Glands						
C-1.3.1	Supply of heavy duty Industrial double compression ET Thread rolled Aluminum cable glands suitable for the following sizes of cables :-						
	1.1 KV Grade, XLPE Insulated, PVC inner Sheath, FRLS PVC outer sheathed cables.						
a.	3C x 10 sq. mm (Al)	No.	2				
b.	5C x 2.5 sq. mm (Cu)	No.	2				
C-1.4	Supply of Fine river sand for cable trenches/slit	Cu. m.	2.5				
C-1.5	Supply of Class B 9"x 4.25" x 3" bricks for cable trenches	No.	375				
C-1.6	Supply of 50x6 Angle, as required at site as per direction of Engineer-in charge	m	1				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'HSN' CODE	'GST' EXTRA (To indicate applicable Rate in %)
C-1.7	Earthing material						
C-1.7.1	1.1KV Grade, XLPE insulated,PVC inner sheathed, unarmoured,PVC outer sheathed,FRLS cables for earthing.						
a.	1Cx25 mm2 Al, 1.1KV grade XLPE cable	m	20				
C-1.7.2	Supply of GI earth wire						
a.	8 SWG GI wire	m	20				
C1	Sub-total : Section-C : Supply for Electrical Works						

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
D-2.0	Piping System installation consisting of fabrication, erection, testing & commissioning of carbon steel pipe along with fittings, flanges, valves, gaskets, bolt-nuts, supports, surface preparation by wire brushing, primer paint zinc phosphate (1 coat), final paint synthetic enamel in fire red colour for pipes, fittings, flanges, fasteners, supports & structurals(2 coats), final paint synthetic enamel in black colour for valves(2 coats), as applicable, (installation materials except consumables shall be free issue by owner) for above ground piping system, as per tender drawings & specifications, of the following sizes :						
D-2.1	6"NB	m	2				
D-2.2	4"NB	m	2				
D-2.3	3"NB	m	6				
D-2.1	2"NB	m	8				
D-2.3	1"NB	m	3				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
D-2.4	upto 3/4"NB	m	1				
D-3.0	Installation of Fire Fighting items						
D-3.1	Fire Extinguishers (wall mounted) & accessories	No.	42				
D-3.2	Hose Box (wall mounted) & accessories	No.	12				
D-3.3	Rubber Hose Reel with Swing type drum (wall mounted) & accessories	No.	3				
D-4.0	Cutting & dismantling						
D-4.1	Cutting & dismantling of equipment and/or piping items along with accessories and removal to location as instructed by owner	kg	50				
D1	Sub-total : Section-D : Services for Mechanical Works						

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
E)	Section-E : Services for Instrumentation Works						
E-1.0	Instrumentation Works						
E-1.1	Installation & testing of 1/2"NB, Pressure switch, connected with cables, fittings & accessories as per tender specification	No.	2				
E-1.2	Installation & testing of 1/2"NB, Pressure gauge as per tender specification	No.	15				
E1	Sub-total : Section-E : Services for Instrumentation Works						

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
F)	Section-F : Services for Electrical Works						
F-1.0	Electrical Works						
F-1.1	Local Control Station						
	Installation, testing & Commissioning of weather proof Local Control station including transporation of owner's store to site of erection, fixing control stations with nuts and bolts on existing support (1.8 mtr height connecting control cable for start,stop as required and testing to make the installation complete in all respect as per specifications & direction of engineer-in-charge						
a.	Start, stop, push button or LT motor rated above7.5 KW	No.	1				
F-1.2	Cable Laying						

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
	Cable laying (horizontal & vertical), testing (before and after laying) and commissioning of following LV Power & Control cables in readymade trenches, on pre-fabricated / site-fabricated cable trays / racks, on already installed risers, support hangers, saddles etc. pulling through pipes on walls/columns, steel structures including transportation of cable drums from storage yard to the site, unrolling the drum, laying the required length of cables including supply and fixing of necessary saddles, saddle bars, cable tags, Al clamps for cables laid vertical on walls / columns / structures, risers with all labour, consumable materials and necessary hardware to make installation complete in all respect as per approved standard drawings and direction of engineer-in-charge.						
a.	3C x 10 sq. mm (Al)	m	125				
b.	5C x 2.5 sq. mm (Cu)	m	125				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
F-1.3	Termination of Cables						
F-1.3.1	End termination and subsequent testing of XLPE insulated single core/multi core armoured cables of 1.1KV grade, Al/Cu cable.,excluding supply of glands but including lugs , all labour and consumable materials to make installation complete in all respect. The rate shall include drilling, taping of cable insulation, crimping of lugs to the conductor, connection of the lugs to equipment terminal, supply and fixing of, G.I. nuts, screws, bolts, washers and other necessary hardware, PVC tape of required grade for taping, making cable entries dust and vermin proof, earthing etc. as per instruction of manufacturer, approved drawings, specifications and directions of engineer-in-charge.						
	1.1 KV grade, XLPE Insulated, PVC inner sheath, armoured, PVC outer, Stranded Cu/ Al Conductor cables as per IS:7098 (Part-1) of the following						

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
	sizes.						
a.	3C x 10 sq. mm (Al)	No.	2				
b.	5C x 2.5 sq. mm (Cu)	No.	2				
F-1.4	Earthing Cable / Wire						
	Installation, testing and commissioning of PVC insulated unarmoured aluminium cable/wire including wire / cable for connection to various equipments & system neutral, necessary hardware for connection including all labour and miscellaneous materials to make installations complete in all respect as per specifications, instructions and directions of engineer-in-charge.						
a.	1Cx25 mm ² Al, 1.1KV grade XLPE cable	Mtr.	20				
b.	8 SWG GI wire	Mtr.	20				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
F-1.5	Testing & Commissioning of LV Motors						
	Testing and commissioning of 3-Phase, Squirrel Cage, Hoseproof Induction Motors of following ratings excluding cable glanding, cable termination, dehydration of windings but including checking & replenishment/replacement of bearing grease/lubricant; checking of IR values between each winding & motor frame & checking of continuity of rotation, if required, by changing supply connections; trial runs on NO LOAD & ON LOAD; supply of approved grease/lubricant & necessary hardware; all work, labour & materials complete as per specifications, documents, codes & standards & directions of engineer-in-charge. (Contractor to keep proper record of tests on motors for NO LOAD & ON LOAD runs)						
a.	Rating up to 7.5 KW	No	1				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
F-1.6	Dehydration of the following Hoseproof motors to improve the insulation resistance value of the winding to the required level as per direction of the engineer in-charge.						
a.	Rating up to 7.5 KW	No	1				
F-1.7	Excavation and Back Filling						
	Excavation and back filling of trenches for cables etc. of following types of soil except rocks for a maximum depth of 1.25 m for cables including shoring, strutting, dewatering, consolidation and disposal of surplus earth upto 100 m leads including all labour and materials to complete installation in all respect.						
a)	Soft soil	Cu. m.	2				
F-1.8	Fine River Sand						

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
	Spreading of approved fine river sand in cable trenches including all labour and materials to make the installation complete in all respect as per approved drawings, specifications and directions of engineer-in-charge.	Cu. m.	2.5				
F-1.9	Bricks						
	Spreading of approved first class bricks of 3 inch thickness in cable trenches for cable protection including all labour and materials to make installation complete in all respect.	No.	375				
F-1.10	Fabrication of Steel Structure						

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
	Fabrication and installation of MS frame supports and brackets for various equipment base frame, miscellaneous electrical equipment support, made of angles (50x6) etc. of different sections including bolting, welding, riveting, supply of necessary anchor bolts etc. including 2 coats of zinc rich anti-rust epoxy primer and 2 finished coats of epoxy paint including breaking wall, floor etc. and making good the same with all labour and consumable materials to complete installation in all respect as per specifications and directions of engineer-in-charge	m	1				
F1	Sub-total : Section-F : Services for Electrical Works						

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
G)	Section-G : Services for Other Items						
G-1.0	Fabrication Rates						
G-1.1	Cutting, CS, upto 6 thk (mm)	inch	50				
G-1.2	Welding, CS, upto 6 thk (mm)	inch	70				
G-2.0	Labour rates, on per diem rate basis for normal hours (day time), inclusive of tools, tackles, testing equipments, testing machinery, consumables, contractor's supervision , as below :						
G-2.1	Helper (normal hours)	hour	40				
G-3.0	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centring, shuttering, finishing and reinforcement - All work up to plinth level:						
G-3.1	1:1.5:3 (1 cement : 1.5 coarse sand	cum	0.2				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	UNIT RATE (Rs.)	TOTAL PRICE (Rs.)	'GST' DETAILS	
						'SAC' CODE	'GST' EXTRA (To indicate applicable Rate in %)
	(zone-III): 3 graded stone aggregate 20 mm nominal size).						
G-4.0	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						
G-4.1	Cold twisted bars	kg	20				
G-5.0	Centring and shuttering including strutting, propping etc. and removal of form work for :						
G-5.1	Foundations, footings, bases for columns	Sq m	2				
G1	Sub-total : Section-G : Services for Other Items						

Annexure-VI

ITEM: Revamp of Fire Fighting System & Miscellaneous Works at PDIL Bhawan, NOIDA.

(SUMMARY OF PRICES)

SL. NO.	PARTICULARS	'SOR' REFERENCE	TOTAL PRICE (Rs.)
1.0	Total price of Supply (Excluding GST)	Sub-total of (Section A + Section B + Section C)	
2.0	Total price of Services (Excluding GST)	Sub-total of (Section D + Section E + Section F+ Section G)	
3.0	Grand Total Price (Supply + Services) Excluding GST for entire revamp job i.e. Supply, Erection, Testing & commissioning as per Technical Scope of ITB.		
4.0	GST shall be extra (Total amount of GST applicable on 'Grand Total Price' at 3.0 above shall be calculated based on the applicable rate of GST against every individual item indicated by the Bidder.		

Note:-

- The applicable rate of GST in % age and item HSN / SAC Code to be indicated separately under the heading '**GST DETAILS**' in the Schedule of Rates(SOR)
- Bidder shall quote as per S.O.R items only. No comment, explanation or clarification in the S.O.R is applicable. No condition in price part shall be acceptable.
- Summary of Prices shall be derived from the sum of price quoted in Annexure-VI(Section A + Section B + Section C+ Section D + Section E + Section F+ Section G + Section H) and the same shall tally with the 'Summary of Prices' indicated in above table. In case of any discrepancy between the two, price as worked out based on break up prices shall be considered for evaluation.

SIGNATURE & SEAL OF BIDDER:

NAME:

STAMP:

DATE:

DRAWINGS & SPECIFICATIONS

Attachment	Description	No. of Pages
4001-7816-001_R0	Fire Hydrant System :Conceptual Layout for Jockey Pump & By-Pass Of Booster Pump On Terrace	1
GA-SALE15062231 10	G.A. Drg. For Jockey Pump (Supplier– M/s Flowmore Ltd.)	1
0000-PNMC-DD-501-0	Jockey Pump Specification Sheet	2
PNIN-4001-7312 Rev.0	Pressure Switch	1
PNIN-4001-7064 Rev.0	Instrument Cables	1
4001-PNEL-TS-801 Rev.0	Electrical Specification for Fire Fighting System	9

CHECK LIST

(BIDDER MUST CONFIRM POINT BY POINT AND STRIKE OUT WHICHEVER IS NOT APPLICABLE)

NAME OF BIDDER:
OFFER NO.:

ITEM: Revamp of Fire Fighting System & Miscellaneous Works at PDIL Bhawan, NOIDA

Sl. No.	Description	ITB requirement	Bidder's confirmation/ acceptance/ comments
1.0	EMD Rs. 8,000/-, as per clause 6.0 of Annexure-II of ITB		
2.0	Price basis: Duly executed at PDIL Bhawan, A-14, Sector-1, NOIDA.	To confirm	
2.1	Firm price: Prices shall be firm till the Delevry/Contract period. As per clause 3.0 of Annexure-III of ITB	To confirm	
3.0	Payment Terms: As per clause 7.0 of Annexure-III (A) of ITB	To accept	
4.0	Security Deposit: 10% of PO value, as per clause 9.0 of Annexure-III of ITB	To accept	
5.0	Delivery/ Completion Period: Four (04) months from the effective date of PO. as per clause 6.0 of Annexure-III(A) of ITB	To accept	
6.0	Validity: shall be 90 days from date of opening of technical bid. As per clause 7.0 of Annexure-II of ITB	To confirm	
7.0	<u>FOLLOWING DOCUMENTS (PHOTOCOPIES DULY SIGNED BY AUTORISED SIGNATORY & STAMPED):</u> To be furnished along with un-priced techno-commercial bid.		
7.1	Required documents As Per Pre-Qualification Criteria (PQC) as Annexure-I of ITB	To furnish	
7.2	Photocopy of PAN card.	To furnish	
7.3	Copy of GST Registration Certificate	To furnish	
7.4	Price Confirmation Copy - A copy of Priced offer {Annexure-VI (all pages)} , keeping price blank (hiding the price) and in place indicating "Quoted" or "√ ", as a confirmation of price quoted against the enquired item and applicable rate of GST in % with item HSN/SAC Code, shall be submitted	To furnish	
8.0 (A)	Whether the Company is registered as M S E (Micro & Small Enterprises) if 'Yes', indicate the registration No. and enclose a copy of Registration Certificate.	YES / NO.	
(B)	Whether the M S E Company is owned by SC / ST	YES / NO.	
9.0	Confirmation of Acceptance to all Terms and Conditions of the Tender Document in totality.	To accept	
10.0	Name, Designation, Telephone Nos. FAX No. and e-mail ID of contact person for this enquiry.		
It is confirmed that in case any of the terms and conditions mentioned in this summary are at variance with those indicated anywhere else in our offer; the condition indicated in this summary shall prevail.			

Signature of Bidder: _____

(Self Declaration on Bidder's Letter Head as per below performa)

DECLARATION

To ,

Projects and Development India Ltd.

Noida – 201301

Subject : ITB No.Dt.

Sir ,

We hereby declare that M/s is neither put on Holiday nor Black-listed by any Government / PSU / Private firm or Financial Institution .

Signature

Name :

Designation :

Seal of the Bidder.

DECLARATION FOR ONLINE PAYMENT

1.0	COMPANY/ FIRM DETAILS:	
1.1	Name of Company/ Firm:	
1.2	Address: Phone No. E-mail ID:	
2.0	BANK DETAILS:	
2.1	Name of the Bank	
2.2	Address of the Branch Telephone No.	
2.3	9 Digit Code number of the Bank and Branch appearing on the MICR cheque issued by the Bank	
2.4	11 Digit NEFT/IFSC Code of the Bank Branch	
2.5	Account Type (SB/CC/CA)	
2.6	Bank Account No.(as appearing on the Cheque)	
3.0	Permanent Account Number (PAN) Under Income Tax Act.	
4.0	Service Tax Registration Number	
5.0	Name of Authorized Signatory	
6.0	Contact Person Name	

SIGNATURE OF AUTHORISED SIGNATORY OF THE FIRM

NAME: _____

OFFICIAL SEAL _____

DATE: _____

Note: Please furnish the above declaration for online payment duly typed on the Company's Letter head, filled in, signed by the authorized person with your Company's Seal.

SECURITY CUM PERFORMANCE BANK GUARANTEE
(STAMP PAPER TO BE PURCHASED ON NAME OF BANK)

This guarantee made this _____ day of _____ (Year in four digits) between a company incorporated in (mention name of the Bank/ company) _____ having its registered office at _____ (hereinafter called the "BANK" which expression shall unless repugnant to the context or contrary to the meaning thereof include its successors and assigns) of the one part; and M/s. _____ (Purchaser), a company incorporated in India under the Indian Companies Act 1956 and having its registered office at PDIL Bhawan , A-14 , Sector-1 , Noida – 201301, Dist. – Gautambudh Nagar (U.P) (hereinafter called the "PURCHASER" which expression shall include its successors and assigns) of the other part.

WHERE AS M/s _____ (Seller) a Company incorporated in _____ and having its Registered Office at _____ (hereinafter called the "COMPANY" which expression shall include its successor and assigns) have secured order Number _____ dt. _____ For supply/ supply-cum-erection of _____ at a total cost of _____ plus site supervision services on per diem rate basis as applicable from the PURCHASER / OWNER.

WHEREAS

1. It is one of the terms of the said order that the COMPANY shall furnish to the PURCHASER/OWNER a guarantee of a BANK which shall be for 10% of the value of the order and shall be valid for the duration of supply of the services covered by the said order and the period of defects liability in respect of the said services plus claim period of six months.
2. The BANK has at the request of the COMPANY agreed to give in favour of the PURCHASER a guarantee in manner hereinafter appearing which the PURCHASER has agreed to accept.

NOW THIS DEED WITNESSETH AS FOLLOWS:-

1. In pursuance of the said agreement and in consideration of the premises the BANK hereby unconditionally guarantees to the PURCHASER due observance and fulfillment by the COMPANY of the terms of the said order relating to the said equipment and of the performance warrantees which is a part of the said order and agrees and undertakes that if the COMPANY fails to observe and fulfil the said terms of the said order and/or the performance warrantees then the BANK shall immediately pay to the PURCHASER on demand such sum or sums of money to the extent of ` _____ being 10% of the value of the said order on account of losses and damages suffered by the PURCHASER as may be claimed by the PURCHASER by reason of such non-observance and non-fulfillment by the company as aforesaid and shall also indemnify the PURCHASER against all losses and damages which may be suffered by the PURCHASER aforesaid and against all costs, charges, expenses which may be incurred by the PURCHASER in connection herewith.

2. The BANK hereby agrees that the decision of the PURCHASER as to the failure on the part of the COMPANY to fulfil their obligations as aforesaid and/or as to the amount payable by the BANK to the PURCHASER hereunder shall be final, conclusive and binding on the BANK.
3. All compensations and payments received by the PURCHASER from Bank on behalf of the COMPANY shall be regarded as payments in gross and in the event of the COMPANY BEING wound-up, the PURCHASER will be entitled to prove against the properties of the COMPANY in respect of the whole of the COMPANY's indebtedness to the PURCHASER without any right on the part of the BANK to stand in the PURCHASER's place in respect of or to claim the benefits of such imposition and payment or any security held by the PURCHASER until the PURCHASER shall have received the full amount of the PURCHASER's claims against the COMPANY.
4. This guarantee shall be in addition to and shall not affect or be affected by any other security now or hereafter held by the PURCHASER on account of the moneys hereby intended to be secured and the PURCHASER at its discretion and without any further consent from the BANK and without affecting the liability of the BANK and the rights of the PURCHASER against the BANK may be compound within given time or other indulgence to or make any other arrangement with the COMPANY and nothing done or omitted to be done by the PURCHASER in pursuance of any authority or permission contained in the guarantee shall affect or discharge the liability of the BANK.
5. Though as between the COMPANY and the BANK, the BANK is SURETY only, the BANK agrees that as between the PURCHASER and the BANK, the BANK is principal debtor to the PURCHASER.
6. This guarantee shall not be affected by any change in the constitution of the BANK or the COMPANY nor shall this guarantee be affected by any change in the constitution of the PURCHASER or any amalgamation or absorption with any other body corporated and this guarantee will be available to or enforceable by such body corporate.
7. The guarantee shall be continuing guarantee and continue to be in force notwithstanding the discharge of the COMPANY by operation of law and shall cease only on payment in full to the PURCHASER by the BANK of the amount hereby guaranteed and on the claim of the PURCHASER against the COMPANY on any account whatsoever being satisfied.
8. In order to give full effect to the provisions of this guarantee the PURCHASER will be entitled to act as if the BANK were the principal debtor to the PURCHASER and the BANK hereby waives all or any of its rights as surety.
9. This guarantee is irrevocable except with the written consent of the PURCHASER.
10. This guarantee shall remain valid up to _____.

11. Any notice by way of request demand or otherwise hereunder may be sent by post to the BANK addressed as aforesaid and if sent by post it shall be deemed to have been given at the time when it would be delivered in due course of post and in proving such notice when given by post it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the PURCHASER that the envelope so posted shall be conclusive.
12. These presents shall be governed by and construed in accordance with Indian Law.
13. Notwithstanding anything stated above, the BANK's liability to the PURCHASER under this guarantee shall be limited to _____ and the guarantee will remain valid up to ____ provided that unless a claim under this guarantee is made by the PURCHASER against the BANK within three (03) months of the said date of expiry of this guarantee, the claim shall be forfeited and the BANK shall be relieved and discharged from all liabilities under this guarantee.

IN WITNESS whereof the BANK has hereunto affixed its common seal the day and year first above written.

THE COMMON SEAL OF THE ABOVE NAMED BANK has hereunto been affixed in the presence of