

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@ismdhanbad.ac.in || Website : www.iitism.ac.in

No. App Chem/500176/17-18

Date: 28 July 2017

NOTICE INVITING TENDER

Sub: NIT No. App Chem/500176/17-18 for Supply & Installation of
Gas Chromatography
(Due date 21.08.2017)

Sir(s),

Indian Institute of Technology (Indian School of Mines), Dhanbad invites tenders/ quotations for Supply and Installation of **Gas Chromatography – 01** No in our Applied Chemistry Department. *Particulars of tender cost, earnest money deposit and date and time of submission and opening of tenders are as under:*

S No	Items	Particulars
1.	Tender cost	Rs. 1,000.00 (Rupees One Thousand only)
2.	Earnest money deposit	Rs. 30,000.00 (Rupees Thirty Thousand only)
4.	Date and time for submission of tenders	21.08.2017 at 1:00 P.M.
5.	Date and time of opening of tenders	21.08.2017 at 4.00 P.M.

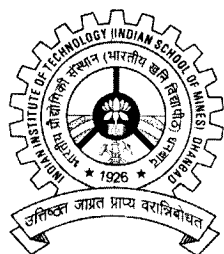
Tender document containing following document is available in our website www.iitism.ac.in/tender_page, which may kindly be referred.

1. Technical specifications as per Annexure-I
2. General terms & condition as per Annexure-II
3. Particular of Bank Guarantee towards EMD as per Annexure –III
4. Compliance Statement as per Annexure –IV
5. Financial Bid as per Annexure- V

Those firms who do not want to quote may please intimate us along with reasons for same as it will help us to update our suppliers list.

Encl: As above


28/07/17
Assistant Registrar



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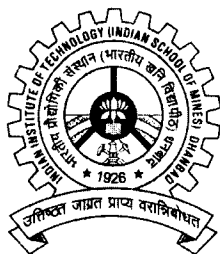
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Annexure-I

DETAILED SPECIFICATIONS FOR GAS CHROMATOGRAPHY

DESCRIPTION OF ITEM	Quantity
I. BASIC SYSTEM 1. Fully Automated Microprocessor controlled GC with extensive self-diagnostic facility. 2. LCD/LED graphic display for all GC parameters 3. Should be with EPC/PPC/AFC/EFC and monitors and control for all Carrier, Injector, Split Vent, Detector and Auxiliary gases electronically. 4. Carrier gas pressure range: 0 to 140 psi or better 5. Built in facility to save carrier gas & power consumption 6. Auto shut down of instrument in case of leaks in carrier gas. 7. Flame out test prevents injection by setting the GC to a 'not ready' state. 8. Auto adjustment of carrier gas flow to compensate for variations in ambient temperature and pressure. 9. Auto Sampler/injector with at least 8 sample vials or higher capacity. 10. Provision for up gradation to MS in future without any modification of the existing GC. II. OVEN 1. Accommodates at least two capillary columns or two glass or stainless steel packed column simultaneously. 2. High power oven with operating temperature range: Ambient temperature +4 °C to 450°C or higher. 3. Heating Rate: 100°C/min or better. 4. Cooling Rate: 450°C - 50°C in 4 minutes or better. 5. Temperature programming: 0.1/min - 45°C/min or better with minimum increment 0.1°C/min. 6. Auto diagnosis 7. No of Oven temperature ramp supported: 20 or more. 8. Provision for liquid nitrogen/ liquid carbon dioxide cooling operating temperature: -50°C to 450°C or better. III. INJECTOR/ INLET Single Split/Split less Capillary Injector with EPC/PPC/IEC	01



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1. Suitable for all (0.1 mm to 0.53 mm i.d.) capillary columns.
2. Split ratio should be easily adjustable for a wide range of analysis conditions. split ratio =1: 7500 or better, more is preferred
3. Temperature Range: Ambient + 5 °C to 400°C in 1°C increment.

/ 4 2

4. Pressure range \geq 140 psi

IV. AUTO INJECTOR

1. Autoinjector /Auto injector with transfer of vials is preferred.
2. Atleast 8 nos. sample vials (2-3 mL capacity) or higher capacity in sample vial numbers is preferred.

V. DETECTOR

Single Flame Ionization Detector (FID) with EPC/PPC/IEC/AFT/APC for packed and capillary column

1. Minimum detectable quantity: 1.5×10^{-12} g C/sec or better is preferable.
2. Maximum Operating temperature: 450°C
3. Should have wide linear dynamic range 10^7 or better.
4. Provision to minimize contamination and residue buildup
5. Flame out warning and ready interlock

VI. PNEUMATICS

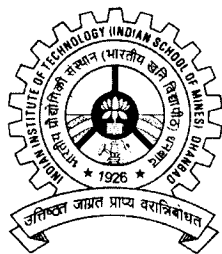
1. Automatic/electronically controlled Pneumatic for Injectors, Detectors and Auxiliary gases to control and Monitor gas flow, pressure and linear gas Velocity.

VII. DATA HANDLING SOFTWARE

1. Chromatography Data Acquisition Unit and Software to operate on Windows 7/ appropriate windows Operating System.
2. Should provide GC control.
3. Software should have graphic method editor to optimize integration parameters and to add component names to known peaks in a method.
4. Should have custom report generator facility using Microsoft Word
5. Should have Real time display of all chromatograms.
6. Should have Dynamic data exchange facility.
7. Should have calibration options such as bracketing with overlap, bracketing without overlap and bracketing by grand average.

VIII. START UP/INSTALLATION KIT FOR GC

1. All the necessary installation kit includes screw-drivers, nuts and ferrules for pipes, leak detection fluid, wrenches, syringes, etc. for startup/ installation.



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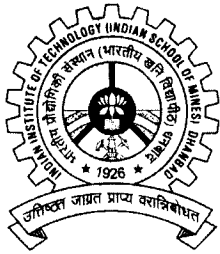
2. S. S. Pipes for gas connectors
3. Nuts & ferrules for S. S. Pipes; Spanner & Soap bubble flow meter
4. Ball rubber; Connector bulls eye; Ferrule al/brass 1.6mm; Ferrules front & back brass 1/8"; Ferrules brass front & back 1/4"
5. Gas lighter electronic; Fuse glass small 3.5, 1 & 1.5 AMP
6. Plug al.dbb; Washer 5 Teflon 9.5 x 6 x 1
/ 4 3
7. Nut nipple flow measurement; Cover dust screen; Nut brass tosh lock 1/8"; Nut wide connector with bush; Nut 6MB blind (W/O Hole)
8. Septum rubber 11.5 mm; Splitter for servo air; Tube PVC small for flow measure
9. Tube PVC bid for flow measure; Tube S. S. 1/8" & Catheter No. 6
10. Screw driver set; Cylinder key & Nut driver 8 mm; Service manual & Instruction
11. manual; Allen key 1.5, 2, 2.5, 3, 4 & 5 mm; Adjustable wrench 12"; Nose plier internal & external circlip; Allen Key set etc.
12. Graphite ferrule for 0.25 mm i.d column: 10 pieces
13. Graphite ferrule for 0.32 mm i.d column: 10 pieces
14. Capillary column nut: 10 pieces
15. Fused Silica Tubing Cutters: 2 piece

IX. COLUMNS

1. Rtx-5/HP-5 or any reputed make Similar Phases capillary column (30 mx 0.25 mm x 0.25 □m)- 01
2. Rtx-1/HP-1, 30m or any reputed make Similar Phases capillary column(30 mx 0.25 mm x 0.25 □m)- 01
3. Wax GC column - 01

X. ESSENTIAL LOCAL ITEMS

1. Filled Nitrogen gas cylinder 47 lit water capacity with double stage SS pressure regulator- 01 No
2. Filled Zero air gas cylinder 47 lit water capacity with double stage SS pressure regulator- 01 No
3. Filled Hydrogen gas cylinder 47 lit water capacity with double stage SS pressure regulator- 01 No
4. Gas distribution and purification system/Panel with moisture, hydrocarbon and oxytrap for zero air, N₂, and H₂. Including activated charcoal filters, indicating regenerable silica gel and molecular sieves filter with pressure regulator and pressure gauges, toggle valves etc. with SS pipe for gas connectors and all fittings with regulator and on/off valve.
5. True On-line 5 KVA UPS with 60 minutes battery backup or better specification (APC or



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Emerson make): 1 No.

6. GC manual Liquid syringe 10□L-2 No

7. GC autoinjector syringe 10□L-2 No

8. 2 mL GC vials: 1000 Nos.

9. Solvent waste and wash vials: 1 set (as extra, along with the normal 1 set).
/ 4 4

10. Septum rubber for inlet: 2 pkt (50 pic. each)

XI. Branded PC with OS (as specified/ equivalent or better specification) – 01 No

1. OS Win 7 Professional (64 bit) with media (License version) or appropriate latest windows professional version to run the GC, data acquisition unit and software, English.(includes License and Media)

2. Processor Intel® Core-i5 (7th gen or latest)

3. Memory 8 GB DDR3

4. Hard Disk Drive 500GB SATA HDD

5. Optical Drive 16x DVD+/-RW Drive

6. 1 GB NVIDIA® Quadro® K600

7. 24" widescreen Monitor with LED Back Light

8. Multimedia Keyboard

9. Laser Scroll USB (6 Buttons) Silver and Black Mouse

XII. LG split AC – 01 No

LG AC: minimum capacity 1.5 TR and at least 4 star rating.

XIII. ANNUAL MAINTENANCE CONTRACT

Extra 2 years AMC after one year standard warranty

or

Total 3 years warranty from the date of installation and commissioning
(consider only the lower value one)

XIV. Other requirements

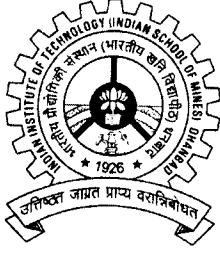
1. Tender cost includes supply and installation of the instrument with accessories at the destination at IIT(ISM) Dhanbad only.

2. Supplier should provide pre installation requirements along with the offer.

3. The supplier should replace defective parts if found any, during installation or during the warranty period. This replacement should be done within a month's time at supplier's cost.

4. Continuous technical support for completing the listed applications.

5. The offer to be in descriptive with detailed specifications of the system offered, mentioning all required items (Not only line items) with supporting documents/literatures.



GSTIN : 20AAAAI0686D1ZA

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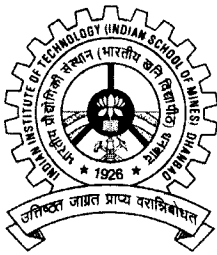
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6. Provides a tabular complying statement with the indented specification in your quotation.

7. Reference Order copies & users list needs



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Annexure-II

GENERAL TERMS & CONDITIONS

NIT No. M-500120-17-18

Sealed tenders under **Two-bid system** are invited from manufacturers/ their authorized dealers/ agents for supply and installation in IIT (ISM) Dhanbad of items specified in *Annexure-I*.

- Offer should be submitted under **TWO-BID** system in two separate sealed covers i.e. "*Techno-commercial bid*" and "*Price bid*".
- In a tender, either the Indian agent on behalf of the principle/ OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.*
 - If an agent submit bid on behalf of the principle/ OEM, the same agent shall not submit a bid on behalf of another principle/ OEM in the same tender for the same item/product.*
- Techno-commercial Bid:** should contain the following documents/information:
 - Tender Cost:** Cost of the tender document is to be paid by way of an A/C payee demand draft for an amount indicated in Page No 01 and drawn in favor of Registrar, IIT(ISM) Dhanbad and payable at SBI, IIT(ISM) campus branch or any other Bank/ Branch located in Dhanbad. Tender cost is non-refundable and non-transferable. Alternatively, intending tenderers may **download** the complete set of tender document from IIT (ISM) website (www.iitism.ac.in) and submit the same duly signed on all pages by the tenderers along with demand draft for tender cost
 - Earnest Money Deposit (EMD):** Should be submitted in form of A/C payee demand draft drawn in favor of Registrar, IIT(ISM) and payable at SBI, IIT (ISM) campus branch or any other Bank/ Branch located in Dhanbad. It can also be submitted in the form of bank guarantee issued by a Nationalized Bank in India in the format given in Annexure-IV.
 - Tenders without payment of tender cost and EMD will not be considered, unless the tenderer is exempt from such payment under Govt. Rules/ Regulations as amended from time to time and claims such exemption along with relevant and valid supporting documents.
 - All relevant technical specifications/details of offered items, drawings, printed technical leaflets, and commercial details which are necessary to ensure that offer is complete in all respects should be attached with the technical bid documents.
 - A 'Compliance Statement' along with a certificate and duly signed that the tenderer satisfies the technical requirements given in Annexure-I. The said statement should be in a tabular form with the columns: sl. no., (2) technical requirement as per NIT; (3) what is offered by the tenderer; and (4) status of compliance: Complied/Not complied).*
 - IIT(ISM) does not bind itself to offer any explanation to those bidders whose Technical Bids have not been found acceptable by the Evaluation Committee of the Institute.
- Further the following documents have to be furnished by the tenderers:**
 - Self attested copies of credentials in support of capability to undertake the supply/work.
 - Technical literature/catalogue with the detail specification of the material
 - Satisfactory performance certificate from their customers for same/similar supply/service must be enclosed alongwith the technical bid.
 - Income tax PAN, Sales tax regn. Nos., GST, & Bank A/c no., name of bank & branch.
- Price should be quoted on FOR, IIT(ISM) Dhanbad basis in case of Indigenous supply and CIF, Kolkata basis as well as FOR IIT(ISM) Dhanbad basis in case of foreign supply.** The packing, forwarding, freight and transit insurance charges, if any must be included in the price and should not be claimed separately. Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price. Price bids of only technically qualified tenderers shall be opened in their presence on a pre-notified date and time.
- Educational discount, if any, should be clearly mentioned.**



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7. IIT(ISM) is entitled for Excise Duty Exemption under Govt of India notifications and is registered with DSIR, Govt of India for this purpose. This may be taken into consideration while quoting minimum possible rate. *Exemption Certificates* can be issued in favour of manufacturers only. It will not be issued any Indian Agent/dealer or distributor at any circumstances. IIT(ISM) will provide only custom duty exemption certificate for availing concessional custom duty. IIT(ISM) will not pay any extra custom duty other than duty exemption certificate.
8. IIT (ISM) does not issue form 'C' or 'D' for concessional Sales tax/VAT. Hence, full rate of sales tax as applicable to educational institutions against the form of certificate should be indicated.
9. **Warranty:** Minimum **02** years from the date of installation and commissioning at the site.
10. **Validity:** Offer must be valid for a period of **240 days** from the date of opening of tender
11. **Performance Bank Guarantee:** The successful bidder(s), on whom order will be placed, has to submit a performance security of 10% of the total order value at the earliest as per PO terms before release of any payment. Performance security has to be submitted in the form of Bank Guarantee/Demand Draft/FDR from any Nationalized/Scheduled commercial Bank in favour of the Registrar, IIT (ISM), Dhanbad. Performance security should remain valid for a period of two months beyond the date of completion of all contractual obligations of the successful bidder(s). No interest will be payable by IIT (ISM) Dhanbad on the Performance Security deposited. In case the contractor fails to provide satisfactory service, the Performance Security submitted by the bidder(s) is liable to be forfeited. An undertaking to this is to be submitted.
12. **Delivery Period and Liquidated Damage:** The ordered materials/work complete in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier.
13. **Inspection:** Inspection shall be carried out at IIT (ISM), Dhanbad after arrival of the materials and decision of the Institute in this regard shall be final.
14. **Rejection and Replacement:** Rejection, if any, shall be notified to the supplier within 30 days of receipt and inspection of the material/workmanship. Rejected materials/work is to be removed by the supplier at his own risk and cost from IIT (ISM). Campus within 14 days of intimation of rejection. Defective Supplies are required to be replaced within 15 days of the removal of the rejected materials/work.
15. **Risk Purchase:** IIT (ISM) shall be at liberty to realize from the supplier the differential amount, if any, which it shall have to incur on purchase of the material/work at higher price(s) from elsewhere in the market, if the supplier, due to their fault, fails to supply the ordered quality and quantity of the material/work within the stipulated time.
16. Conditional offer will not be accepted.
17. **Payment:** will be made within 30-45 days (In case of inside in India)/ outside India through LC only) after satisfactory supply, inspection, installation/commissioning & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate and Performance Bank Guarantee. The invoice should be duly certified by the Head of Dept to which supply is made or any other IIT (ISM) official authorized for this purpose.
18. Your full address for correspondence and name address of the beneficiary's banker should be clearly indicated in the offer. **Institute does not make any advance payment.** However, as a special case 90% Letter of Credit Payment term is accepted only in case of foreign supplier and balance 10% after satisfactory, installation report received from the user department.
19. **Country of origin and port of shipment should be stated** in your offer clearly.
20. Name and address of Indian Agent, percentage of agency commission, if any and role of the Agent with respect to the subject supplies and a statement thereon that "Agency Commission is included in the
21. FOB/CIF price of the offer" should be clearly indicated in your offer.
22. Earliest/ expected delivery period should be clearly indicated.



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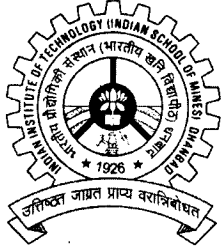
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23. Packing should be suitable for 'Air freight'.
24. Please note that no part shipment/transshipment/third party shipment is acceptable to us.
25. **Last date** for receipt of tenders and date & time for opening of the same is given in page- 01. The tenders will be opened in the presence of representatives of tenderers present. *In the event last date is a holiday/declared as a holiday, next working date will be the last date for submission/ opening of tender.*
26. Tender should be submitted in a sealed cover/envelope and must be superscribed as under:
 - i) "Tender No. App Chem/500176/17-18 (Supply & Installation of Gas Chromatography- 01 No (21.08.2017 at 4.00 p.m.).
 - ii) All tender shall be received upto to the time and date as stated in the tender notice, after which no tender shall be accepted in any circumstances.
 - iii) All tender must be sent by Registered Post/Speed Post/Courier along with Courier receipt, during IIT (ISM) working days only (i.e. Monday to Friday). Please note that no hand delivery of tender will be received at any circumstances.
27. The Institute at its discretion may change the quantity/quality/parameters/upgrade the criteria/drop any item(s) or part thereof at any time before placing the order. In case of any dispute, the decision of IIT(ISM) shall be final and binding on the bidders/tenderers.
28. The Institute reserves the right to accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid.
29. All the bidders, those are interested to participate in this bid, must have to submit the technical specification of their bid in MS-Word Format in a CD with the technical bid. The CD must be marked with the NIT No. and submission deadline.

ABOVE TERMS AND CONDITIONS OF THE NIT ARE ACCEPTED

1	Name and address of the tenderer	
2	Telecom nos. of the tenderer i.e. phone fax, & email id.	
3	Signature, name & designation of the person signing on behalf of the tenderer & his/her office seal	
4.	Name & designation of the contact person & his phone/mobile no.	



GSTIN : 20AAAAI0686D1ZA

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@ismdhanbad.ac.in || Website : www.iitism.ac.in

No. App Chem/500176/17-18

Date: 28 July 2017

Annexure-III

FORMAT OF BANK GUARANTEE TOWARDS EMD

Whereas _____ (hereinafter called "the Bidder") has submitted its bid dated _____ (date of submission of bid) for the supply of _____ (name and/or description of the goods) (hereinafter called "the Bid") against Tender Document No. _____ of the Indian School of Mines, Dhanbad.

KNOW ALL PEOPLE by these presents that WE _____ (name of bank) of _____ (name of country), having our registered office at _____ (address of bank) (hereinafter called "the Bank"), are bound unto _____ (name of Purchaser) (hereinafter called "the Purchaser") in the sum of _____ for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 2009.

THE CONDITIONS of this obligation are:

- 1) If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
- 2) If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
 - (a) fails or refuses to execute the Contract Form if required; or
 - (b) fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders;

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to six months from the date of opening of tender or the period of the bid validity whichever is later and any demand in respect thereof should reach the Bank not later than the above date.

Signature of the Bank

✓



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

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No. App Chem/500176/17-18

Date: 28 July 2017

Annexure-IV

Compliance Statement

Sl. No	Technical requirement as per NIT	What is offered by the tenderer	Status of Compliance Complied/Not Complied

h



GSTIN : 20AAAAI0686D1ZA

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

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No. App Chem/500176/17-18

Date: 28 July 2017

Annexure - V**Format for Financial Bid**

NIT No.: App Chem/500176/17-18

Date: 28 July 2017

Bidders Ref: No.

Date:

GSTIN:

Subject: Supply & Installation of Gas Chromatography

Sl. No.	Full Description of Items (With HSN Code/SAC Code)	Qty.	Rate	Amount
			Packing & Forwarding (if any)	
			Total	
			GST (if any)	
			Freight (if any)	
			Installation (if any)	
	Amount should be in figure as well as word		Grand Total	

Note:

- 1) All the details must be provided as per prescribed format only
- 2) Prices quoted by the bidders should include all local taxes, VAT, service tax, GST, HSN Code, SAC Code, livies, transportation cost and insurance costs etc. if any
- 3) All the rates must be quoted in Indian Rupees.