

# **Offline- Open Tender NATIONAL TENDER ENQUIRY DOCUMENT**

**FOR SUPPLY, INSTALLATION, TESTING &  
COMMISSIONING  
OF MEDICAL EQUIPMENTS**

For & on behalf of  
**FOR**

**KALPANA CHAWLA GOVT. MEDICAL  
COLLEGE, KARNAL**

**Tender Enquiry Document No.:**

HSCC/KCGMC/Medical Equipment/2016/off/C/01/C Dated 18.11.2016

**BY**



**HSCC (INDIA) LTD**

**(A GOVERNMENT OF INDIA ENTERPRISE)**

Plot No. 6-A, Block-E, Sector-1, NOIDA (U.P.) - 201 301

**PHONE: 0120-2540153**

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**KALPANA CHAWLA GOVT. MEDICAL COLLEGE,  
KARNAL, HARYANA**

GOVT OF HARYANA

Tender Enquiry No.: HSCC/KCGMC/Medical Equipment/2016/off/C/01/C Dated 18.11.2016

**NOTICE INVITING TENDERS (NIT) - Offline**

HSCC (India) Ltd. for and on behalf of Director General, Medical Education & Research, Panchkula, Govt. of Haryana invites **offline bids** from eligible bidders, in single stage two bid system for Supply, Installation, Testing, Commissioning & Handing-over of various **Medical Equipments for Kalpana Chawla Govt. Medical College, Karnal, Haryana:**

Item no	Name of Item	Department	Qty	EMD Rs.
1.	Models	Anatomy	01 set	10,000.00
2.	Slides	Anatomy	35 sets	10,000.00
3	Centrifuge high speed with technometer etc.	Physiology	1	1,800.00
4	All glass distillation apparatus	Bio Chemistry	4	10,000.00
5	Desiccators large size	Bio Chemistry	30	32,000.00
6	Desiccators small size	Bio Chemistry	30	12,000.00
7	Bottles dispensers	Bio Chemistry	15	5,000.00

Sl. No.	Description	Schedule
i.	On line sale of tender enquiry documents	<b>18.11.2016 to 09.12.2016</b> upto 12.30 hrs
ii.	Place of sale of Tender Enquiry Documents	HSCC (India) Ltd, Plot No. 6-A, Block-E, Sector-1, Noida (U.P)-201301
iii.	Cost of the Tender Enquiry Document	<b>INR 500/-</b>
iv.	Pre Tender Meeting Date & Time	<b>30.11.2016</b> , 11:00 hrs. IST
v.	Pre Tender Meeting Venue	Same as (ii) above
vi.	Closing date & time for receipt of Tender	<b>09.12.2016</b> ., 13.00 hrs IST
vii.	Time and date of opening of Techno – Commercial tenders	<b>09.12.2016</b> , 13:30 hrs IST
viii	Venue of Opening of Techno Commercial Tender	Same as sr no. (ii) above

- TE Document fee Rs. **500/- per** set in the form of account payee Demand Draft/Pay Order/Cashier's Cheque/Banker's Cheque drawn on a scheduled Bank in India/ cash in favour of "**HSCC (India) Ltd**" payable at New Delhi/ Noida.
- Bidder shall download the TE documents from the web site <http://eprocure.gov.in/cppp>, [www.hsccltd.com](http://www.hsccltd.com), and submit its tender by utilizing the downloaded document, along with the required non-refundable fee as mentioned in Para 1 above.
- All prospective bidders may attend the Pre Tender meeting. The venue, date and time indicated in above.
- Bidder shall ensure that their bid, complete in all respects, are dropped in the Tender Box located at **HSCC (India) Ltd, Plot No. 6-A, Block-E, Sector-1, NOIDA (U.P.) – 201**

**301** on or before the closing date and time, failing which the bid will be treated as late and rejected.

5. In the event of any of the above mentioned dates being declared as a holiday / closed day for the purchase organisation, the tenders will be sold/received/opened on the next working day at the appointed time.
6. The TE Document is not transferable.
7. **Bidder qualification Criteria:** Bidder should have turnover **Rs. 50 lakhs** per annum during last three financial years (i.e. 2013-14, 2014-15 & 2015-16)

7. Sealing of bid:

**Envelop I:**     **a. Bid Security (EMD)/Registration certificate for the item quoted issued by NSIC/ DGS&D for exemption of EMD and bid document fee.**  
                  **b. Tender Document fee @ Rs. 500/-**

**Envelop II:**    **a. Tender Form duly signed & filled**  
                  **b. Turnover certificate during last** three financial years (i.e. 2013-14, 2014-15 & 2015-16 certified by Chartered Accountant  
                  c. Technical compliance sheet with technical leaflets

**Envelop III: Price Bid /Financial Bid**

These above envelopes I, II & III shall be further sealed in one outer envelope super scribing name of item, item no. and TE document No. ....

8. If Bidder submit bid security / performance security amount in the form of Demand Draft (i.e. DD)/ Bank Guarantee in favour of **HSCC (India) Ltd**

#### **9. Rejection of bid:**

If EMD & tender document fee / **Registration certificate for the item quoted issued by NSIC/ DGS&D for exemption of EMD and bid document fee**, as mentioned in the tender document not found in envelop-I, their bid will be rejected and Envelop -II & III will not open by the committee

**CHIEF GENERAL MANAGER HSCC (I) Ltd.**  
**For & on behalf of DGMER, Panchkula.**

Item no	Name of Item	Department	CMC
1.	Models	Anatomy	Not applicable
2.	Slides	Anatomy	Not applicable
3	Centrifuge high speed with techno meter etc.	Physiology	To be quoted
4	All glass distillation apparatus	Bio Chemistry	Not applicable
5	Desiccators large size	Bio Chemistry	Not applicable
6	Desiccators small size	Bio Chemistry	Not applicable
7	Bottles dispensers	Bio Chemistry	Not applicable

**Terms & conditions:-**

1. **Period of Validity:** A bid shall remain valid for **120 days** from the date of submission to HSCC.
2. **EMD:** Tenderer shall furnish along with its tender, earnest money for amount as shown in the NIT. The earnest money shall be furnished in one of the following forms:
  - i) Account Payee Demand Draft, (ii) Banker's cheque and (iii) Bank Guarantee as per format

The demand draft or banker's cheque shall be drawn on any commercial bank in India or country of the tenderer, in favour of the "HSCC (India) Ltd" payable at New Delhi/Noida. In case of bank guarantee, the same is to be provided from any commercial bank in India (as per the format in tender enquiry document). EMD to be valid for 165 days from the initial date of opening of the bid. The tenderer who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. Vague stipulations in the Registration Certificate such as "to customers' specification" etc. will not be acceptable for exemption from furnishing of earnest money. In case the tenderer falls in these categories, it should furnish copy of its valid registration details in its bid (with DGS&D or NSIC, as the case may be)

3. Rate: a) The Prices should be quoted in Indian Rupees only. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account. All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price. The rate quoted must be inclusive of Excise Duty, Packing & Forwarding charges, Sales Tax, entry tax, Freight charges and Insurance charges. The risk of damage or loss in transit if any will be rest on the suppliers only.
  - b) CMC price has to be quoted as per format given in the bid.
4. **Sales Tax/ Vat:** Should be mentioned on price format.
5. **Evaluation:** The tenderers will be evaluated and compared separately for each item. The tenderer has to quote for the complete requirement given under the item. Comparison of the responsive tenders shall be carried out on all inclusive quoted price at Consignee site basis, inclusive of applicable taxes, duties, incidental services. The rate quoted must be inclusive of Excise Duty, Packing & Forwarding charges, Sales Tax, Freight charges, entry tax and Insurance charges. The quoted CMC prices will also be added for comparison & ranking purpose for evaluation
6. The bid submitted by MSME bidders shall be dealt as per the prevailing laws
7. **Name of Consignee:** The Director  
Kalpana Chawla Govt. Medical College,  
KARNAL (Haryana)

Name of Purchaser: The Director, Kalpana Chawla Govt. Medical College, KARNAL

Name of consultant: HSCC (India) Limited, E 6(A), Sector -1, Noida

8. **Delivery Period: 30 days from date of Notification of Award/Purchaser order to delivery at consignee site.** The date of delivery will be the date of delivery at consignee site.
9. **Installation and commissioning:** Installation and commissioning shall be done **within 15 days** of receipt of the stores/ goods at site or within two weeks of handing over the site for installation, whichever is later.
10. **Despatch Clearance:** No goods shall be despatched before issue of Despatch note issued by HSCC, failing which entire responsibility shall rest on the supplier.
11. **Warranty:** Warranty of equipments will be two years on site from date of commissioning & handing over to KCGMC/ Client.
12. **Performance Security:** Within fifteen (15) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum 24 months (as applicable warranty period of 2 years) from the date of Notification of Award.
13. This Notification of Award/Purchaser order Constitutes the formation of contract, scope of supply will be governed by the technical specifications & other terms & conditions of the aforesaid Tender Enquiry document and its amendments /corrigendum issued.
14. The Time lapse on the part of HSCC / KCGMC / on account of despatch clearance/ installation clearance will not be count for delivery period /installation period.

**15. Payment Terms:**

- (i) 80% payment on submission of following document:-
  - Copy of Purchase order.
  - Consignee receipt in original issued by KCGMC/HSCC.
  - Invoice in favour of consignee through HSCC for 80% claim
  - Warranty Certificate.
- (ii) 20% payment within on submission of following documents:
  - Copy of Purchase order.
  - Copy Consignee receipt issued by KCGMC/ Client.
  - Installation & commissioning or final acceptance certificate issued by KCGMC/HSCC.
  - Invoice in favour of consignee through HSCC for 20% claim.
16. Supply shall be accepted only after inspection and approval by the concerned authority.
17. **Liquidated Damage:** If the supplier fails to deliver any or all the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract.
18. **Insurance:** The supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and

delivery in the following manner: The supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured for an amount equal to 110% of the value of the goods from ware house to ware house (consignee site) on all risk basis. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.

#### **19. Termination of Contract**

19.1 The Purchaser/Consignee, without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by written notice terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/Consignee

19.2 In the event of the Purchaser/Consignee terminates the contract in whole or in part, pursuant to sub-clause 19.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement. Unless otherwise instructed by the Purchaser/Consignee, the supplier shall continue to perform the contract to the extent not terminated

#### **20.0 Resolution of disputes**

20.1 If dispute or difference of any kind shall arise between the Purchaser / Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

20.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, such dispute or difference shall be referred to the sole arbitrator appointed by **Director General Medical Education and Research, Government of Haryana, Panchkula**. The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award

20.3 Venue/seat of Arbitration: The venue of arbitration shall be at New Delhi, India.

**21.0 Applicable Law and Jurisdiction:** The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force. The contract shall be subject to the jurisdiction of Delhi court to the exclusion of all other courts.

**22.0 Delivery/Delay in the supplier's performance:** The supplier shall deliver of the goods and perform the services under the contract within the time schedule specified in the documents. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contract. Any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following actions:

- (i) imposition of liquidated damages,
  - (ii) forfeiture of its performance security and
  - (iii) termination of the contract for default
- 23.0 The bid submitted by the bidder should be accompanied with Power of Attorney in favour of signatory of TE documents.
- 24.0 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.



## TENDER FORM

Date:

To,

Chief General Manager, HSCC  
For & on Behalf of Director General Medical Education & Research (DGMER),  
Govt. Of Haryana,  
Panchkula

### Ref. TE document no.

### Item no:-

We, the undersigned have examined the above mentioned TE document, including all amendment/corrigendum issued the receipt of which is hereby confirmed. We now offer to supply and deliver, installation, commissioning \_\_\_\_\_ (*Description of goods and services*) in conformity with your above referred document terms for the sum of \_\_\_\_\_ (NOT TO MENTION ANY PRICE DURING SUBMISSION IN TECHNICAL OFFER) (total tender amount in figures and words), as shown in the price schedule(s), attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form.

We agree to keep our tender valid. We also accordingly confirm to abide by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.

We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum if any

We are fully agreed all the terms and conditions of TE document including amendment/ corrigendum /technical specification issued before opening of bid. In case, anywhere any conditional terms found in our bid, the same shall be treated as deleted/cancelled/ withdrawn from our bid. Whenever there is a conflict, the acceptance of all terms and conditions of TE document in the tender form / affidavit shall prevail only.

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(Signature with date)

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(Name and designation) Duly authorised to sign tender for and on behalf of



## Price Bid

**Item no:**

Name of item

Sr no.	Description of Goods	Make	Model no.	Qty.	# Unit Price Rs.	VAT/Sales Tax extra %	Total Amount Rs.
1.							

Note: 1. Sales tax/VAT should be mentioned separately.

2. # Unit price shall be included of all packing & forwarding, freight charges & insurance from ware house to consignee, local tax, entry tax, duties, two year warranty, VAT/ taxes and other levies payable by the supplier under the contract.

**Authorised Signatory**

### PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD

1	2	3	4					5
Item no.	BRIEF DESCRIPTION OF GOODS	QUANTITY. (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise* (Inclusive of service tax & VAT, Excise duty) INR					Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)] (Inclusive of service tax, VAT, Excise duty) INR
			1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	
			a	b	c	d	e	

**\* After completion of warranty period**

**Authorised Signatory**



**BANK GUARANTEE FORM**

To

HSCC (India) Limited  
E 6 (A), Sector -1, Noida

IFB No.  
Name of Item  
Item no.

WHEREAS \_\_\_\_\_ (Name and address of the supplier) (Hereinafter called "the supplier") has undertaken, in pursuance of contract no. \_\_\_\_\_ dated \_\_\_\_\_ to supply (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of. \_\_\_\_\_ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

.....  
(Signature with date of the authorised officer of the Bank)

.....  
Name and designation of the officer

.....  
Seal, name & address of the Bank and address of the Bran

## Technical Specification of Equipments

### ITEM No. 01

#### LIST OF EMBRYOLOGY MODELS (E)

S.NO	TOPIC
E 1	MODEL SHOWING RELATION OF FIMBRIAE AND OVARY, FIMBRIAE COLLECT THE OOCYTE AND SWEEP IT INTO UTERINE TUBE.
E 2	9 DAY HUMAN BLASTOCYST SHOWING SYNCITIOTROPHOBLAST, CYTOTROPHOBLAST & BILAMINAR DISC.
E 3	HUMAN BLASTOCYST OF APPROXIMATELY 12 OR 13 DAY
E 4	OVARIAN CYCLE (a. PREOVULATORY FOLLICLE b. OVULATION c. CORPUS LUTEUM)
E 5	DEVELOPMENT OF PLACENTA
E 6	EMBRYO PEAR SHAPED SHOWING PRIMITIVE STREAK & NODE.
E 7	FORMATION OF NOTOCHORD
E 8	DORSAL VIEW OF HUMAN EMBRYO SHOWING SOMITES ON EACH SIDE OF NEURAL TUBE
E 9	DEVELOPMENT OF VITELLIN VEIN, UMBILICAL VEIN
E 10	DEVELOPMENT OF INFERIOR VENA CAVA
E 11	PHARYNGEAL ARCHES
E 12	DEVELOPMENT OF PHARYNGEAL CLEFT & POUCHES
E 13	DEVELOPMENT OF FACE
E 14	DEVELOPMENT OF PALATE
E 15	CLEFT LIP & CLEFT PALATE
E 16	FETAL CIRCULATION
E 17	DEVELOPMENT HEART TUBE
E 18	DEVELOPMENT OF INTERATRIAL SEPTUM
E 19	DEVELOPMENT OF VENTRICLE
E 20	AORTIC ARCH ARTERIES
E 21	DEVELOPMENT OF PANCREAS
E 22	DEVELOPMENT OF HEPATOBILIARY APPRATUS
E 23	MIDGUT ROTATION
E 24	DEVELOPMENT OF URINARY SYSTEM (KIDNEY, BLADDER, URETER)
E 25	DEVELOPMENT OF MALE GENITAL SYSTEM
E 26	DEVELOPMENT OF FEMALE GENITAL SYSTEM

#### LIST OF GROSS ANATOMY MODELS (G)

S.NO	TOPIC
G 1	EYE BALL
G 2	LARYNX (THREE PARTS) OR LARYNX (FIVE PARTS)
G 3	EXTRAHEPATIC BILIARY APPRATUS
G 4	SAGITTAL SECTION OF BRAIN
G 5	SAGITTAL SECTION OF HEAD AND NECK SHOWING TONGUE, PALATE & CAVITY OF NOSE
G 6	HUMAN TORSO WITH DETECHABLE PARTS
G 7	CORONAL SECTION OF KIDNEY SHOWING CORTEX AND MEDULLARY REGION
G 8	STOMACH SHOWING BLOOD SUPPLY
G 9	UROGENITAL ORGANS
G 10	SHOULDER JOINT
G 11	HIP JOINT

G 13	KNEE JOINT
G 14	SPINAL CORD WITH NERVES
G 15	LIVER WITH GALLBLADDER
G 16	MODEL SHOWING INTERIOR OF ATRIA (HEART)
G 17	LUNG WITH TRACHEA
G 18	CENTRAL & PERIPHERAL NERVOUS SYSTEM
G 19	PAROTID GLAND
G 20	THYROID GLAND
G 21	MODEL SHOWING COURSE OF VERTEBRAL ARTERY
G 22	SAGITTAL SECTION OF FEMALE PELVIS
G 23	SAGITTAL SECTION OF MALE PELVIS

#### **Item no. 02**

##### **Human histological slides (35 sets)**

Specification for histological slides- each set should cover various aspects of human tissue as G.I.T, Endocrine system, lymphoid system, Nervous system, Muscular system, Vascular system. The slides should be properly stained with H&E stain.

#### **Item no. 03**

##### **Centrifuge, High Speed with Tachometer etc.**

Laboratory equipment centrifuge machine high speed – heavy duty Sturdy MS Body, well painted finish, with maximum speed of 6000RPM at 10/12 tube of 15ml total square body, with lid lock manual type, speed control by analogue knob, digital display of timer, timer time 0-60 minutes speed display is digital, speed setting with help of knob, auto off if lid is open, lid breaking system provided, power consumption 500Watt, power requirement 220V and 50 to 60Hz, weight approx. 15Kgs, total noiseless operation, non vibration, complete with head and power lead.

#### **Item no 04**

##### **All Glass Distillation Plant**

##### **Technical specifications:**

1. The glassware should be made of high quality borosilicate glass to withstand high heat.
2. Apparatus capacity should be of 4 litres/Hr.
3. Should be double stage.
4. Should have metallic stand and other accessories.
5. Stand should be made of rust free material.
6. Standards heating elements of 2.5-3KW to be used.
7. An automatic cut off device should be attached.
8. Heater should be of quartz for immediate output of distilled water. Apparatus should consist of high quality Borosilicate Boiler with built in water leveler.
9. Output water should be pyrogen-free with conductivity less than 1 micro siemen, ph 6.9-7, distillate temp 65-75 deg C.
10. Automatic cut off device or safety control module.
11. Power input to be 220-240 VAC, 50 Hz.
12. Manufacturer should have ISO or CE certification for quality standards

#### **Item no. 05**

### **Desiccators Large Size**

Desiccators large size used to protect chemicals which are hygroscopic or which react with water from humidity. It should be circular and made up of boro silicate glass. Both Vacuum & plan Desiccators are provided with a thick perforated Polypropylene disc with a big hole in the center for easy lifting. The tiny holes in the disc provide air troughs & support to the dishes. However porcelain discs are advisable in case of incandescent crucibles

### **Item no. 06**

### **Desiccators Small Size**

Desiccators small size used to protect chemicals which are hygroscopic or which react with water from humidity. It should be circular and made up of boro silicate glass. Both Vacuum & plan Desiccators are provided with a thick perforated Polypropylene disc with a big hole in the center for easy lifting. The tiny holes in the disc provide air troughs & support to the dishes. However porcelain discs are advisable in case of incandescent crucibles.

### **Item no.07**

### **Bottles Dispenser**

Bottle dispenser It should be designed for performance handling of liquids from a large variety of bottles and flasks, the dispensers combine the latest in dosing technology, high tech materials and ergonomic design. As a result, users benefit from universal chemical compatibility, ease of operation, superior safety and low maintenance.

Volumes range 0.25 to 100 mL.

Superior chemical resistance.

Long lasting performance stability.

Comfortable and convenient in use.

Solid, yet simple construction.

Instant volume setting.

In-lab calibration.

Autoclavable at 121°C fully assembled.

Supplied with bottle adapters

Calibration certificate