

**SPICES BOARD**  
**(Ministry of Commerce and Industry, Govt. Of India)**  
**Sugandha Bhavan, N.H. By-pass,**  
**Palarivattom, Kochi - 682 025**

No.QEL-PUR/Annual/Chemicals/2017-18

13-2-17

**QUOTATION NOTICE**

Sealed quotations are invited from the suppliers of chemicals and consumables, for purchase of items as and when required, for the Board's Quality Evaluation Laboratories (QELs) located at Kochi/ Chennai/ Mumbai/ Tuticorin/ Narela/ Guntur and Kandla. The items, when ordered, should be supplied at the respective laboratories. Please see Annexure-I for specifications and list of chemicals.

**Terms and Conditions**

1. The Quotation should be valid for the period from April 2017 to March 2018 and the rate for each item should remain fixed for this period.
2. The items should be supplied as per the order to our Laboratories located at various places in India, within the periods stipulated in the order.
3. Staggered supply should be made as per the requirement, if any, mentioned in purchase orders.
4. If a party fails to supply the items of the required specifications / quality **within the stipulated period** in the purchase order, or if a party fails to supply the ordered items with **the required quality or essential specifications** as agreed while submission of Quotation/ specified in the purchase order, the order is liable to be canceled and the name of the party is liable to be blacklisted from the list of suppliers.
5. The rate quoted for the chemicals/consumables should be **inclusive of all taxes and any other charges** if applicable for a period of one year.
6. Payment of the supplied items will be made on satisfactory receipt of the items in full and in good condition at the labs concerned.
7. Quotations should give the name of the chemical/ consumable offered, purity/ grade, brand name, terms & conditions of supply and the minimum delivery period required.
8. Spices Board, if deemed required, will request for sample(s) of any item in the quotation to ensure compliance with technical specifications before finalizing **the Quotation**. In such cases, acceptance will be subject to technical compliance of the sample(s).
9. The quotation should be submitted at the lowest rate. Clarification if any can be had from the undersigned (e-mail to [sbqel@indianspices.com](mailto:sbqel@indianspices.com))
10. The cover containing should be superscribed "Quotation for Chemicals and Consumables for QELs, 2016-17" and should be sent to the following address:  
Scientist-D & Head,  
Quality Evaluation Laboratory,  
Spices Board, Sugandha Bhavan, N.H. By-Pass,  
Palarivattom, Kochi-682025.  
Ph. 0484 2333610.
11. Late quotations will not be accepted. The quotations will be opened in the presence of bidders or their authorised representative who may be present at the venue.
12. The Spices Board reserves the right to accept the quotation in full or in part or to reject without assigning any reason at any stage.

**Last Date & Time for the receipt of quotations: 13-03-17 5:30 PM**

**Date & Time of opening of the quotations: 14-03-17 10:00 AM**

**Encl:**

**Annexure-1:** Annual Requirement of major chemicals – all labs (2017-18)

**Annexure-2:** Requirement of Aflatoxin Immunoaffinity Columns for the Year 2017-18

**Secretary**

**Annexure 1: Tentative Annual Requirement of major chemicals – all labs (2017-18)**

	Name of Chemical / Consumable	Kochi	Mumbai	Chennai	Tuticorin	Guntur	Kandla	New Delhi	Total
1	Acetic acid HPLC 1 L	30	20	10	NIL	NIL	5	5	70
2	Acetone ACS grade, 2.5L	50	200	NIL	NIL	NIL	NIL	NIL	250
3	Acetone AR 2.5 L	80	20	100	NIL	NIL	NIL	NIL	200
4	Acetone LR 2.5 L	NIL	300	100	NIL	NIL	NIL	NIL	400
5	Acetonitrile AR 2.5 L	NIL	200	NIL	NIL	NIL	NIL	NIL	200
6	Acetonitrile HPLC 2.5 L	680	300	400	NIL	100	160	400	2040
7	Acetonitrile MS Grade 1Ltr	100	50	200	NIL	NIL	10	60	420
8	Ethyl Acetate MS grade (Pesticide Residue Analysis)	50	NIL	NIL	NIL	NIL	NIL	NIL	50
9	Dichloromethane AR	50	NIL	NIL	NIL	NIL	NIL	NIL	50
10	Diethyl Ether AR 500ml	1000	NIL	NIL	NIL	NIL	NIL	NIL	1000
11	Ethyl Acetate AR 2.5 L	200	NIL	NIL	NIL	NIL	NIL	NIL	200
12	Chloroform AR grade 500ml	10	NIL	1	NIL	NIL	NIL	NIL	11
13	Diethyl Ether ACS grade 500ml	NIL	20	NIL	NIL	NIL	NIL	NIL	20
14	Dimethyl sulphoxide HPLC 1L	10	5	NIL	NIL	NIL	5	NIL	20
15	Ethylene Dichloride 2.5L, AR	20	NIL	2	NIL	NIL	NIL	NIL	22
16	Extraction thimbles, Cellulose (for Soxhlet extraction) (25 mm dia x 100 mm (L), 1.0 to 1.5 mm thickness)	NIL	NIL	20	NIL	NIL	100	NIL	120
17	Filter Paper Whatman No.1, 150mm	NIL	100	NIL	NIL	NIL	NIL	3000	3100
18	Hexane AR 2.5L	50	NIL	NIL	NIL	NIL	NIL	NIL	50
19	Isopropanol AR 2.5L	20	20	20	5	NIL	NIL	NIL	65
20	Isopropanol HPLC 2.5L	NIL	20	10	NIL	2	10	NIL	42
21	Methanol AR 2.5L	NIL	300	800	100	NIL	160	NIL	1360
22	Methanol HPLC 2.5L	500	300	500	20	150	40	350	1860
23	Methanol MS Grade 1 Ltr	20	50	300	NIL	NIL	10	100	480
24	n-Hexane ACS grade 2.5L	NIL	10	NIL	NIL	NIL	NIL	NIL	10
25	n-Hexane AR 2.5L	NIL	10	10	NIL	NIL	NIL	NIL	20
26	Florisil PR Grade 250 g [activated]	30	10	NIL	NIL	NIL	NIL	NIL	40
27	Formic acid HPLC 500 ML	10	10	10	10	5	5	NIL	50
28	Hydrochloric acid ACS grade, 2.5L	NIL	NIL	5	NIL	NIL	5	NIL	10
29	Hydrogen peroxide 500 ml AR	10	NIL	NIL	NIL	NIL	5	NIL	15

30	Immuno Affinity Coulmns and accessories for Aflatoxin Analysis*. (Ref. Annexure 2 below for technical details. The quotation for this item should be submitted separately from other quotations)	5800	12000	15000	4200	3000	1000	2000	43000
	<b>Name of Chemical / Consumable</b>	<b>Kochi</b>	<b>Mumbai</b>	<b>Chennai</b>	<b>Tuticorin</b>	<b>Guntur</b>	<b>Kandla</b>	<b>New Delhi</b>	<b>Total</b>
31	Laboratory glassware cleaning solution (Alkaline range)	NIL	60	20	NIL	10	NIL	10	100
32	Parafilm (4" X 125)	NIL	10	NIL	NIL	5	NIL	NIL	15
33	Perchloric acid AR 500 ml	10	NIL	NIL	NIL	NIL	2	NIL	12
34	Silver nitrate 25g AR	NIL	5	NIL	NIL	NIL	5	NIL	10
35	Sodium Chloride AR 5kg	NIL	20	30	5	5	NIL	10	70
36	Sulphuric Acid AR 2.5 L	NIL	10	NIL	NIL	NIL	10	NIL	20
37	Toluene ACS grade 2.5 L	NIL	75	NIL	NIL	NIL	NIL	15	90
38	Toluene AR 2.5 L	150	NIL	5	4	NIL	8	NIL	167
39	Tween 20 AR 500 ML	40	100	10	4	NIL	4	NIL	158
40	Water MS Grade 2.5 L	10	75	NIL	NIL	NIL	NIL	NIL	85
41	Xylene ACS grade, 2.5 L	NIL	5	NIL	NIL	NIL	5	NIL	10
42	Nitric Acid ACS grade 2.5L	NIL	10	NIL	NIL	NIL	NIL	NIL	10
43	Nitric Acid 2.5L, AR	NIL	NIL	5	NIL	NIL	16	NIL	21
44	Petroleum Ether (40-60) 2.5L, AR	NIL	30	5	NIL	NIL	NIL	NIL	35
45	Petroleum Ether (60-80) 2.5L, AR	NIL	10	5	NIL	NIL	NIL	NIL	15
46	Sodium bicarbonate 5 kg, LR	NIL	NIL	5	NIL	NIL	5	5	15
47	Sodium Hypochlorite LR 500ml	NIL	50	<b>50</b>	NIL	NIL	NIL	NIL	100
48	Sodium Sulphate anh AR, 1 Kg	NIL	10	5	NIL	NIL	5	NIL	20
49	Sodium Hydroxide AR, 500Kg	10	10	NIL	NIL	NIL	5	NIL	25

## Annexure 2

Please refer to Item No. 30 in Annexure 1

### Requirement of Aflatoxin Immunoaffinity Columns for the Year 2017 – 18

No.	Specifications	Details
1	Immunoaffinity monoclonal antibody columns for analysis and Quantification of Aflatoxins B <sub>2</sub> , B <sub>1</sub> , G <sub>2</sub> and G <sub>1</sub> at minimum quantification limit of 0.5 µg/kg with HPLC and Fluorescence Detection	
2	Number of columns required	43,000
3	Mode of supply	Staggered supply in batches as required, over the year. Order will be placed in batches as per requirement, over the 2017-18 period.
4	Place of supply	Anywhere in India, as intimated from Spices Board Head Office during the supply of each batch.
5	Recovery from spiked samples for Aflatoxins B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub> at 1 µg/kg or lower, in chilli matrix, using HPLC with fluorescence detector	At least 85%. Should be substantiated by analytical data (include the same with the quotation).
6	Background interference in HPLC fluorescence detector	<0.5 µg/kg
7	Sensitivity	Better than 0.5 µg/kg with a wide range. The high limit for the column (in µg/kg) has to be specified.
8	Shelf life	At least 15 months shelf life at room temperature after supply (20 - 25°C)
9	Compatibility requirement	Should be compatible with Vicam 12-position pump stand or equivalent (Column should have 5mm aperture diameter at the upper end) for elution. If not compatible, 12 numbers of an adapter to be fixed at the upper end of the column which has an upper aperture diameter of 5mm should be made available.
10	Certification	Columns should have AOAC collaborative test approval/ AOAC performance test approval/ approval from an equivalent international technical Body. Proof should

10		<p>be submitted along with the quotation.</p> <p>Certificate of confirmation from USFDA or any other equivalent international regulatory agency should be available. Proof should also be submitted along with the quotation.</p>
11	Other requirements	Columns should be supplied with certificate of analysis, % of recoveries for each Aflatoxin and <u>batch-wise expiry date</u> , with a minimum of 85% recovery as detailed in point no. 5 above.
12	<p>Multi-Position elution stand – An elution stand capable of handling a minimum of 12 numbers of the quoted columns simultaneously should be quoted. The elution stand should have positive pressure air pumps for each position to facilitate fast and easy elution.</p>	<p>Up to 5 Nos, as per PO</p> <p>Prices for this item should be quoted separately. Staggered supply might be required to various laboratories of Spices Board.</p> <p>This item should have a comprehensive warranty for five years, including all accessories and consumables.</p>
13	Fluted filter paper Whatman No. 1 with 240 mm diameter.	<p>Equal to the number of columns, should be supplied along with the columns.</p> <p>The cost should be <b>included</b> in the quote.</p>
14	Glass micro fibre filter papers as per the standard procedure (ASTA 24.1) should be quoted even if not required as per the normal procedure for usage of the quoted columns.	Equal to the number of columns should be supplied along with the columns. The cost should be included in the quote.
15	<p>Post Column Derivatization Systems of Electrochemical or Photochemical type for use with HPLC System with Fluorescence Detector, which guarantee a quantification limit of 0.5 µg/kg for Aflatoxin B1, B2, G1 and G2. All necessary connection tubings to HPLC should be provided.</p>	<p>Up to 10 Nos, as per PO.</p> <p>Prices for this item should be quoted separately.</p> <p>Staggered supply might be required to various laboratories of Spices Board.</p> <p>This item should have a comprehensive warranty for five years, including all accessories and consumables.</p>
16	Details of full validation of Aflatoxin Analysis using the postcolumn derivatization system, including chromatograms and LOQ confirmation at 0.5 µg/kg using	

	HPLC – Fluorescence Detector, should be provided.	
17	Chemicals required	Cost of any <u>buffer solution</u> or <u>other chemicals</u> required for use with the columns for HPLC–Fluorescence Detector analysis should be included in the quotation, and made available during the supply of the columns in required amounts.
18	Users' List	A complete users list, with <u>user contact designation</u> , phone numbers and email id, for the quoted brand of columns in India should be included along with the quotation.
19	<u>Undertaking of Quality Assurance:</u> Any batch of columns, which proves to be unsuitable due to low recovery, slow elution rate, will have to be replaced by the supplier free of cost.	Undertaking to be provided along with the quotation.
20	Other requirements	Any other accessory required for using the columns should be quoted in required numbers and should be made available along with the columns.
21	Sample Columns	<u>Ten numbers</u> of sample columns, of the quoted model that is proposed to be supplied against the tender, need to be included with the quotation for evaluation, along with necessary accessories required (if any) for the elution, free of charge. These will be used for testing and will not be returned.
22	EMD	A sum equivalent to 2% of the quoted amount may be submitted along with the quotation, by means of Demand Draft drawn in favour of Secretary, Spices Board, payable at Kochi, as EMD, which will be returned after finalising the order.
23	Compliance Statement	A duly signed statement of compliance, by the authorised company representative with each point in this technical specification should necessarily accompany the quotation without which the quotation will not be considered.