



All India Institute of Medical Sciences, Bhubaneswar
At - Sijua (Patrapada), Post - Dumuduma, Bhubaneswar (Odisha) - 751 019

To be uploaded in Website: www.aiimsbhubaneswar.edu.in (Tender)

Reference No: J-11078(10)/S&P/20-21/Part-XVIII

Dated: 18/05/2021

Sub: Procurement of Gas Chromatograph-Mass Spectrometer (Make: PerkinElmer Singapore Pte. Ltd.) for CCMR(Project)at AIIMS, BBSR on Proprietary basis - Inviting Comments thereon.

The Indenting Officer of CCMR(Project) at AIIMS, Bhubaneswar has requested for Procurement of Gas Chromatograph-Mass Spectrometer (Make: PerkinElmer Singapore Pte. Ltd.) from their authorized Indian distributor for sales and services in Easter India M/s. PerkinElmer India Pvt. Ltd., Kolkata which has authorized M/s. Lab Chemicals Pvt. Ltd., Bhubaneswar to bid, negotiate & conclude.

The Notice is being uploaded for general information of prospective manufacturer/Authorized Distributor/Dealers to submit their objection/proposal/comments, if any, on proprietorship of the item.

In case the product of any manufacturer/Authorized distributor/Dealer conforms to the enclosed specifications, they may submit their proposal for the supply of the same along with the brochures, point by point compliance of the enclosed specifications along with all documentary evidence. One quotation of the product may also be submitted.

The objections/comments/proposal should be sent in sealed cover to the Office of Sr. Procurement Cum Stores Officer, AIIMS, Bhubaneswar (Odisha) – 751019 or through e-mail to aso.rnpattnaik@aiimsbhubaneswar.edu.in & jao_nivedita@aiimsbhubaneswar.edu.in so as to reach on or before **date: 01-06-2021** failing which it will be presumed that no other firm is interested to offer comments/protest/object and case will be decided on its merits.

Procurement OF ITEMS/ SERVICES THROUGH NON-GEM

Para – As per the Circular No. F.6/182019-PPD issued by Ministry of Finance, Dept of Expenditure dated 23 Jan 20 regarding procurement of goods/ services through Non-GeM, bidders are required to submit documents for the same.

Bidders to submit the GeM registration details that they are already registered in GeM as the category of the product is not available in GeM, they are not able to participate in it. It is mandatory to submit the relevant documents as supporting evidence.

An undertaking also to be given in company letter head that “Such already registered suppliers should be boarded on GeM as and when the item or service gets listed on GeM”.

The ref. no.–J-11078(10)/S&P/20-21/Part-XVIII, dt:18.05.2021, due on dated: 01-06-2021 should be superscripted on sealed envelope.


Sr. Procurement-cum-Stores Officer

Contd.... P/2



All India Institute of Medical Sciences, Bhubaneswar
At - Sijua (Patrapada), Post - Dumuduma, Bhubaneswar (Odisha) - 751 019

Enclosure:

1. Proprietary Article Certificate from Indenting Officer of CCMR(Project), AIIMS, Bhubaneswar.
Annexure-I
2. PAC of M/s. PerkinElmer Singapore Pte. Ltd, Singapore, for Gas Chromatograph-Mass-Spectrometer
(Make: PerkinElmer Singapore Pte. Ltd.) **Annexure-II**
3. Latest Price Quotation M/s. Lab Chemicals Pvt. Ltd., Bhubaneswar. - **Annexure III**
4. OEM authorization Certificate - **Annexure-IV**
5. GeM Certificate- **Annexure-VI**

Copy to: -

- | | | |
|-------------------------------------|---|------------------------------|
| 1. Indenting Officer, CCMR(Project) | : | for information please |
| 2. Accounts Officer | : | for information please |
| 3. IT Cell | : | for hoisting in the website. |


Sr. Procurement-cum-Stores Officer

AIIMS, BHUBANESWAR

Proprietary Article Certificate

Valid for the Current Financial Year

File No. and Date Reference :		
1	Description of article	GAS CHROMATOGRAPH-MASS SPECTROMETER WITH HEADSPACE SAMPLER (HS)
2	Forecast of quantity / annual requirement	1
3	Approximate estimated value for above quantity	Rs. 1,75,55,000/- + 5% GST
4	Maker's name and address	PerkinElmer Singapore Pte. Ltd.
5	Name(s) of authorized dealers/ stockists	M/s LAB CHEMICALS PRIVATE LIMITED, Regd. Office: PB No.14, Unit-IV, Market Complex, Shop No. W/5, Bhubaneswar - 751 001, Odisha Mob No: 9437005066, 9937005067 Email Id: labchemicalsovtid@gmail.com, routgagan@yahoo.com
6	I approve the above purchase on PAC basis and certify that :- Note- Tick to retain only one out of (b), C-1) or (c-2) whichever is applicable and cross out others. Please do confirm (a) by ticking it- without which PAC certificate will be invalid.	
6 (a)	This is the only firm who is manufacturing / stocking this item.	Yes
6 (b)	A Similar article is not manufactured / sold by any other firm, which could be used in lieu OR	Yes
6 (c-1)	No other make/brand will be suitable for following tangible reasons (like OEM/Warranty, spares) : _____	Oven cooling Rate: From 450°C to 50°C in less than 2.0 minutes, Fast Oven Heating Rate: Up to 140°C/min., Mass spectrometer operating mass range: 1-1200amu and Pated pressure balanced sampling technology for VOC analysis to obtain <1% RSD
6 (c)	No other make/brand will be suitable for following intangible reasons (if PAC was also given in the last procurement cycle, please also bring out efforts made since then to locate more sources) : OR _____	
7	Reference of concurrence of finance wing to the proposal :	
History of PAC Purchase of this item for past three years may be given below :		
Name of the Supplier		
Order/ Tender Reference & Date	Quantity Ordered	Basic Rate on Order (Rs.)
		Adverse Performance Reported if Any

Signature of Approving Authority

Date: 20-01-2021

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Dr. Balamurugan Ramadass

Additional Professor

Department of Biochemistry

Head Centre For Clinical

Microbiome Research (CCMR)

AIIMS, Bhubaneswar - 751 001

DEPARTMENT

BIOCHEMISTRY

AIIMS, Bhubaneswar

Signature



HUMAN HEALTH ENVIRONMENTAL HEALTH
PerkinElmer Singapore Pte. Ltd.
2 Tskang Innovation Grove
#04-01 JTC MedTech Hub @
MedTech Park
Singapore 616305
Phone: (65) 6779 6555
Fax: (65) 6872 6595
www.perkinelmer.com

To Whom It May Concern

Date: 16/12/2020

Ref: PerkinElmer GC-MS-HS Instrument

Sub: Manufacturer Certificate

This is to certify that item (code/part numbers N6659690, N6480012, M0413602) PerkinElmer Clarus-690GC with SQ8T Mass with TurboMatrix-16 Headspace Sampler with accessories quoted by us an article of proprietary nature, and PerkinElmer is the original manufacturer of the said item. As per our knowledge, no other company or manufacturer is having such unique designed system.

Being the technology used as

- Oven Cooling Rate: From 450 °C to 50 °C in less than 2.0 minutes
- Fast Oven Heating Rate: Up to 140degC/min
- Mass Spectrometer operating mass range: 1 - 1200amu.
- Patented Pressure Balanced Sampling technology for VOC analysis to obtain <1% RSD

This item with above features is solely manufactured by us and not by anyone else in the country/world

Thanking you

Yours Sincerely

For PERKINELMER SINGAPORE PTE. LTD.

.....
(Authorized Signatory)

Gas Chromatograph Mass Spectrometer with Headspace Sampler Specification:

General:

1. Fully Automated Microprocessor controlled GC with extensive self-diagnostic facility.
2. **System must have inbuilt touch screen graphical user interface for easy control of the system.**
3. Should be with Programmable Pneumatic Control and monitors for all Carrier, Injector, Split Vent, Detector and Auxiliary gases electronically.
4. Dual channel, real time signal display on the Touch Screen should be available

OVEN

- Temperature Range : 4°C above Ambient to 450°C
- Cooling Rate : Must have cool-down time for the oven from 450 °C to 50 °C in less than 2.0 minutes
- Fast Oven Heating Rate: Up to 140°C/min

INJECTOR: Position-1

Programmable Split/Spiltless Capillary Column Injector with PPC

- **Temperature Range : Must have temperature range 50°C to 500°C in 1°C increment or better**
- Should have built-in Charcoal Trap in split vent.
- Easy adjustment of split ratio.
- Heating rate of 1 °C/min to 200 °C/min or better

PNEUMATICS:- Programmable Pneumatic Control for injectors, Detectors and Auxillary gases to control and Monitor gas flow, pressure and linear gas velocity.

MASS SPECTROMETER

1. Mass Analyzer: Quadrupole Mass Analyzer with pre-filter or pre-quadrupole, preferred.
1. **Mass Spectrometer must have operating mass range atleast 1 - 1200amu or above.**
2. Mass Stability : atleast ± 0.1 amu over 48 hour
3. Ionization Mode: Electron Ionization (EI) with variable voltage 10 – 100eV or better
4. Temperature Range: 50 °C – 350 °C or higher
5. Vacuum Pump: Must be 255L/Sec Turbo-molecular Pump
6. The system should have provision for Selected Ion Monitoring Scan while simultaneously acquiring data in the Full Scan Mode.
7. Choice of Mass Spectral Libraries – NIST latest Version (licensed version)
8. Sensitivity for the whole mass range: EI Full Scan 1 pg of octafluoronaphthalene 1500:1

Columns: Elite-Wax, Elite-5 MS

Headspace Sampler:

- Headspace Sampler: Automated Head-Space Sampler with built-in graphical user interface for easy control of the system with minimum 16 vials capacity.
- Sampling: Pneumatic Pressure Balanced Sampling technology preferred for VOC analysis to obtain <1% RSD.
- Injection Volume Control: Through in-built instrument PC or external PC.
- Oven: Solid Aluminum Oven with at least 1 vial capacity with overlapping thermostating.

Marbay
 Associate Prof. & Head
 Department of Biochemistry
 JIPMER, Puducherry

Sunil K. Raghav
SUNIL K. RAGHAV, Ph.D.
 SCIENTIST
 INSTITUTE OF LIFE SCIENCES
 BHUBANESWAR-751 023, INDIA

To,

All India Institute of Medical Science
Sijua, Patrapada,
Bhubaneswar-751019

Sub: Quotation for Laboratory Instruments. (GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS) with HEADSPACE SAMPLER (HS))

Dear Sir,

As per your requirement please find enclosed herewith our competitive prices with details Terms & Conditions for your kind consideration.

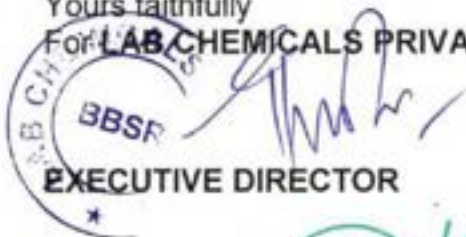
TERMS & CONDITIONS

1. Taxes: GST @5% will be charged extra against issue of DSIR Certificate otherwise GST @18% will be charged extra.
2. Supply: will be made within 3-4 weeks.
3. FOR: to your Laboratory.
4. Payment: 100% within 30 days of supply.
5. STANDARD WARRANTY: 60 months from the date of Installation or 61 months from the date of shipment whichever is earlier. Consumables are not covered under warranty.
6. After Sales & Services: will be provided by us as well as our principal supplier.

Enclosure: GST Certificate
PAN CARD
Authorization Letter

Thanking you
Yours faithfully

For **LAB CHEMICALS PRIVATE LIMITED**


EXECUTIVE DIRECTOR



LAB CHEMICALS PRIVATE LIMITED

Regd. Office: P.B. No.14, Unit-IV, Market Complex, Shop No.W/5,
Bhubaneswar - 751 001, ODISHA, INDIA. Gram : 'LABEQUIP'
Telephone : 0674 - 2506676 (O), Fax : 0674 - 2508057
E-mail : labchemicalspvtltd@gmail.com
Website : www.lcpl.in/www.labchemicals.co.in

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SI No.	Part Number	Description	Qty	Price
GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS) with HEADSPACE SAMPLER (HS)				
01	N6659690 N6650D00	PerkinElmer Model Clarus690 Gas Chromatograph System with Programmable Pneumatic Control (PPC)	1	1,75,55,000.00
02	N665000A	Model Clarus690 Gas Chromatograph Base	1	
03	N66510F0	PSS Injector with PPC	1	
04	N65130A0	dotLINK Integral LINK	1	
05	N6654A00	Clarus-690 MS Ready	1	
06	03300905	Silanized Glass Wool	1	
07	N6121004	Liner-9000 SSTPI 2 mm Quartz	1	
08	N6480012	ClarusSQ8T —Compatible with the Clarus690 GC, with Electron Impact (EI) Ionization and 255 L/sec turbo- molecular pump with back-up pump <u>Features/Benefits</u> •World's most sensitive detector delivers exceptional sensitivity • Easiest source to access and maintain (EI) •Universal Programmable Split/Splitless (PSS) Injector •Headspace Sample Introduction Systems is available as an add-on •Marathon™ Filament delivers long life even under the most difficult chromatography conditions •TurboMass GC/MS software delivers easy environmental compliance •Fastest heat-up and cool-down oven in conventional GC Sensitivity. Stability. Versatility. Introducing the new Clarus® SQ 8 Gas Chromatograph/Mass Spectrometer (GC/MS). This world-class system delivers uncompromised performance with consistent ultra-trace detection limits consistently and reliably – time after time.The revolutionary Clarus SQ 8 GC/MS is engineered around the industry's most sensitive, yet durable Clarifi™ detector and a unique SMARTsource™ (Simplified Maintenance And Removal Technology) that is easy to remove and clean – without tools. The Clarifi detector provides you with the flexibility to choose your ideal level of sensitivity and dynamic range, eliminates background noise and maximizes analyte signals. Clarus SQ 8 GC/MS features the fastest conventional GC oven available – heating up or cooling down more rapidly than other competitive ovens. Plus, the system is driven by our sample-centric TurboMass™ software for ease-of-use from data collection to evaluation and reporting	1	
09	09991423	Power Cord India	6	
10	N6470045	Vent Kit-Turbomass Inert Gas	1	
11	N6480015	Controller - ClarusSQ8 MS Includes: • PC LENOVO M58P (Windows 7 Professional – 64 Bit)* • 2nd Network Card – for connection to existing network • TurboMass 6.0 software	1	

Signature



12	09404759	Monitor	1
13	N6520220	NIST Mass Spectral Library Software for Turbomass	1
14	N6470012	MARATHON FILAMENT GC/MS	1
15	N9316282	COL-ELITE-5MS-30M-.25UM-.25MM	1
16	00230178	SYRINGE	1
17	N9331078	TEST MIX-GC/MS SENSITIVITY	1
18	09903392	SS 1/16 SS Union Male Extension Nut	1
19	09903700	Graphite Ferrule, 1/16 x 0.5 mm, Pkg.10	1
20	09920141	One Piece Ferrule, Pkg. 10	1
21	N9301730	COMPOUND-TRIAZINE 100mg BOTTLE	1
22	N9301376	Wafer Ceramic Cutter, Pkg. 10	1
23	04190197	Aluminum Oxide Powder	1
24	N6552000	ADAPTOR - RZRBK HEADSPACE INJECTION	1
25	09926067	O-RING-0.145 ID 0.070WD	1
26	B0510403	COVER-HS TRANSFER LINE	1
27	09920104	Graphite/Vespel Ferrules, 1/16 inch for 0.18 to 0.25 mm Columns-10nos	1
28	09920105	Graphite/Vespel Ferrules, 1/16 inch for 0.18 to 0.32 mm Columns-10nos	1
29	N6621028	Septa LB2 Thermogreen 11 mm Pkg. of 50	1
30	N9316403	COL-Elite Wax-30m-.25 mm x .025 #m	1
31	N9302256	Gas Tight Syringe 1001N 1.0 mL	1
32	M0413602	Turbomatrix Headspace Sampler	1
33	M0413400	HS Base Kit	1
34	M0413423	HS-16	1
35	M0413451	Manual Pneumatic Controller	1
36	M0413531	Standard Heated Transfer Line	1
37	N9316304	COL-Elite-Al#mina-30 m-.53 mm	1
38	N6710195	TurboMatrix HS Starter Kit	1
39	N9301270	20.0 mm Decapper	1
40	N9307033	Headspace Ethanol Test Kit Complete set	1

The following items are required for the installation and operation of the instrument and to be provided by PerkinElmer India Pvt. Ltd. @Free of Cost before installation of instrument.

Indigenous items:

- I. UHP grade Helium gas filled cylinder- 1no
- II. UHP grade Nitrogen gas filled cylinder- 1no
- III. Gas Purification Panel for Helium- 1 no
- IV. Gas Purification Panel for Nitrogen- 1 no
- V. Double stage SS regulator for Nitrogen gas & Helium gas filled cylinder- 1no each
- VI. LaserJet B/W Printer- 1 no
- VII. 6 KVA online UPS with 30 mins back-up-1 no



To,

All India Institute of Medical Science
Sijua, Patrapada,
Bhubaneswar-751019

Sub: Quotation for Laboratory Instruments for Extended 5 Years CMC of (GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS) with HEADSPACE SAMPLER (HS))

Dear Sir,

We are offering herewith our Prices for CMC after comprehensive warranty period.

Sl No.	Part Number	Description	Qty	CMC Price
<u>GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS) with HEADSPACE SAMPLER (HS)</u>				
01	N6659690 N6650D00	PerkinElmer Model Clarus690 Gas Chromatograph System with Programmable Pneumatic Control (PPC)		
		CMC for 1 st Year		12,50,000.00
		CMC for 2 nd year		13,65,000.00
		CMC for 3 rd year		14,35,000.00
		CMC for 4 th year		15,95,000.00
		CMC for 5 th year		17,65,000.00

TERMS & CONDITIONS

1. Taxes: GST @5% will be charged extra against issue of DSIR Certificate otherwise GST @18% will be charged extra.
2. Supply: will be made within 3-4 weeks.
4. Payment: 100% on the 1st day of year of extended Cmc.
5. **STANDARD WARRANTY**: 60 months from the date of Installation or 61 months from the date of shipment whichever is earlier. Consumables are not covered under warranty.

Enclosure: Proprietary Certificate,
GST Certificate
PAN CARD
Authorization Letter

Thanking you
Yours faithfully

For LAB CHEMICALS PRIVATE LIMITED

EXECUTIVE DIRECTOR



LAB CHEMICALS PRIVATE LIMITED

Regd. Office: P.B. No.14, Unit-IV, Market Complex, Shop No.W/5,
Bhubaneswar - 751 001, ODISHA, INDIA, Gram : 'LABEQUIP'
Telephone : 0674 - 2506676 (O). Fax : 0674 - 2508057
E-mail : labchemicalspvtltd@gmail.com
Website : www.lcpl.in/www.labchemicals.co.in



PerkinElmer India Pvt. Ltd.
Acropolis, 5th Floor, Unit 5/7,
185A, Rajabpura Main Road,
East Kolkata Township,
Kolkata - 700 107
West Bengal, India

Tel : +91-33-6627 0000
Fax : +91-33-6627 0010
Toll free : 1800 266 1660 | 1800 22 1660
E-mail : india.marketing@perkinelmer.com
Web : www.perkinelmer.com

SAUUSD0675
Dated 18th December, 2020

AIIMS Bhubaneswar
Sijua, Patrapada,
Bhubaneswar-751019

Kind Attention:
Dr. Giri Prasad

Ref: Procurement of FTIR & GCMS-HS

Subject: Authorization Letter

Dear Sir,

We hereby authorize **M/s. Lab Chemicals Private Limited, Shop No. W/5, Unit – IV Market Complex, Bhubaneswar - 751001** to submit the bid, negotiate and conclude the contract with your above mentioned procurement for the above goods manufactured by us.

No company or firm or individual other than **M/s. Lab Chemicals Private Limited, Shop No. W/5, Unit – IV Market Complex, Bhubaneswar - 751001** is authorized to bid, negotiate and conclude the contract against this specific tender.

We hereby extend our full warranty for 60 calendar months from the date of installation and all after sales & services will be rendered by us as and when required.

For PerkinElmer India Pvt. Ltd.

Souren Bhattacharyya

.....
(Authorize Signatory)





► HUMAN HEALTH ENVIRONMENTAL HEALTH
PerkinElmer Singapore Pte. Ltd.
2 Tukang Innovation Grove
#04-01 JTC MedTech Hub @
MedTech Park
Singapore 618305
Phone (65) 6779 9555
Fax (65) 6872 5595
www.perkinelmer.com

January 14, 2021

TO WHOM IT MAY CONCERN

This is to certify that PerkinElmer Instruments are sold and serviced in India only by our Indian Counterpart/Subsidiary, PerkinElmer (India) Pvt Ltd. The head office of PerkinElmer (India) Pvt Ltd is located at 8th floor, G-Corp Tech Park, Near Hypercity Mall, Ghodbunder Road, Kasarvadavali, Thane (West) – 400 615, Maharashtra, India. Sales and Service in Eastern India are looked after by PerkinElmer (India) Pvt. Ltd., Acropolis, 5th Floor, Unit 5/7, 1858, Rajdanga Main Road, East Kolkata Township, Kolkata – 700107, India

Yours sincerely,
For PerkinElmer Singapore Pte Ltd.

Authorized Signatory



Report ID: GEM/GARPTS/02032021/PY7KQVG7W3F4

Report Name: Gas Chromatography Mass Spectrometer with Headspace Sampler

Generated By: RABI NARAYAN PATTANAYAK, Department of Health and Family Welfare, Ministry of Health and Family Welfare

Generated On: 02/03/2021

Valid till: 01/04/2021

GeM Availability Report and Past Transaction Summary

GeM Availability Report and past transaction summary report is generated based on the specifications searched by the Buyer. The specification may be modified appropriately for searching relevant categories on GeM. Buyer may navigate to GeM category page by clicking on the category link to view category specifications and products/services available in the category.

Order Count and Order Value displayed is on a cumulative basis since GeM inception.

1. Search String: Gas Chromatography Mass Spectrometer with Headspace Sampler

Search type: Product

1. There are categories available on GeM matching your requirements (as listed here). You can create a bid on GeM with a product closest matching your required specifications and add additional parameters in specifications through Corrigendum using RMS functionality.
2. If you feel that category TP needs updating you can submit category updating request also through RMS.
3. If you do not want to use any of the above option and want to proceed for procurement outside GeM, please suggest the specifications of the required product for creation of new category on GeM for future procurement.

Search Result: Category available/suggested on GeM but marked as "not matching requirements" by the buyer with undertaking as under:

It is certified that I have thoroughly checked all probable categories suggested by GeM and I am satisfied that the product required is not covered / does not fall in any of the suggested categories and can not be procured under any of these categories even after inclusion of List of Values(LOV) wherever possible in category specifications of suggested categories. It is also certified that the technical specification requirement are such that these can not be covered even by adding specification parameters using ATC in any of the GeM suggested categories. This is a one time requirement hence new category creation is not proposed / or requirement is recurring but request for new category creation will be submitted separately post generation of GeMARPTS.



Report ID: GEM/GARPTS/02032021/PYPKQVG7W3F4

Report Name: Gas Chromatography Mass Spectrometer with Headspace Sampler

Generated By: RABI NARAYAN PATTANAYAK, Department of Health and Family Welfare, Ministry of Health and Family Welfare

Generated On: 02/03/2021

Valid till: 01/04/2021

GeM Availability Report and Past Transaction Summary

GeM Availability Report and past transaction summary report is generated based on the specifications searched by the Buyer. The specification may be modified appropriately for searching relevant categories on GeM. Buyer may navigate to GeM category page by clicking on the category link to view category specifications and products/services available in the category.

Order Count and Order Value displayed is on a cumulative basis since GeM inception.

1. Search String: Gas Chromatography Mass Spectrometer with Headspace Sampler

Search type: Product

1. There are categories available on GeM matching your requirements (as listed here). You can create a bid on GeM with a product closest matching your required specifications and add additional parameters in specifications through Corrigendum using RMS functionality.
2. If you feel that category TP needs updating you can submit category updating request also through RMS.
3. If you do not want to use any of the above option and want to proceed for procurement outside GeM, please suggest the specifications of the required product for creation of new category on GeM for future procurement.

Search Result: Category available/suggested on GeM but marked as "not matching requirements" by the buyer with undertaking as under:

It is certified that I have thoroughly checked all probable categories suggested by GeM and I am satisfied that the product required is not covered / does not fall in any of the suggested categories and can not be procured under any of these categories even after inclusion of List of Values (LOV) wherever possible in category specifications of suggested categories. It is also certified that the technical specification requirement are such that these can not be covered even by adding specification parameters using ATC in any of the GeM suggested categories. This is a one-time requirement hence new category creation is not proposed / or requirement is recurring but request for new category creation will be submitted separately post generation of GeMARPTS.