



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/20-21/13

Dated: 17/12/2020

Sub: Procurement of NextSeq 2000 Sequencing System (Make: Illumina, Singapore) for establishment of Center for excellence for clinical microbiome research (CCMR) at AIIMS, BBSR on Proprietary basis - Inviting Comments thereon.

The user Department for establishment of CCMR of AIIMS, Bhubaneswar has requested for Procurement of NextSeq 2000 Sequencing System (Make: Illumina, Singapore) from M/s. Illumina Inc., Singapore through their authorized representative M/s. Premas Life Science Pvt. Ltd, New Delhi.

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 spo@aiimsbhubaneswar.edu.in, aso.rnpattnaik@aiimsbhubaneswar.edu.in & stokee_priya@aiimsbhubaneswar.edu.in so as to reach on or before **date: 31-12-2020** 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.

The ref. no.– **J-11078(10)/S&P/20-21/13**, dt: 17-12-2020, due on dated: 31-12-2020 should be superscripted on sealed envelope.

Enclosure:

1. Proprietary Article Certificate from Indenting Officer of Department of CCMR, AIIMS, Bhubaneswar. **Annexure-I**
2. PAC of M/s. Illumina Inc., Singapore for NextSeq 2000 Sequencing System (Make: Illumina, Singapore) **Annexure-II**
3. Latest Price Quotation of M/s. Premas Life Science Pvt. Ltd, New Delhi. - **Annexure III**
4. OEM authorization Certificate - **Annexure-IV**
5. Literature & Brochures of indented item. - **Annexure-V**

6. *Gen Certificate*

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
Sr. Procurement-cum-Stores Officer

AIIMS, BHUBANESWAR

Annexure - I

(u)

(ii) Concurrence of Finance and Accounts Department proposal vide: _____

(iii) Approval of the Competent Authority vide : _____

(Signature of the Tendering Officer with date)

(Signature of HOD with date)

N.B. : PAC (attached) to be submitted with the Procurement Indent.

Dr. Balamurugan Ramadass
Additional Professor
Department of Biochemistry
AIIMS, Bhubaneswar-751019

Proprietary Article Certificate

Valid for the Current Financial Year

File No. and Date Reference :		
1	Description of article	20038897: NextSeq™ 2000 Sequencing System
2	Forecast of quantity /annual requirement	
3	Approximate estimated value for above quantity	Rs. 4,95,51,792.00 /-
4	Maker's name and address	Illumina Singapore Pte Ltd, 29 Woodlands Industrial Park E1, Singapore, Singapore, SG-757716
5	Name(s) of authorized dealers/ stockists	Premas Life Sciences Private Limited. E49/5, IInd Floor Okhla Industrial Area. Phase-II, Delhi 110020
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. AND	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)	1. No other make/brand will be suitable for following tangible reasons (like OEM/ Warranty, spares.) : <u>The next-generation sequencing (NGS) system should be a compact benchtop model with minimal foot print and capable of sequencing a 16-40 whole exome sequencing, 2-5 samples for single cell expression (4K cells, 50 K reads per cell) in a single run.</u> <u>Single instrument performs clonal amplification, sequencing, paired-end run and primary data analysis and secondary data analysis, with an inbuilt storage of 3.8 TB and 288 GB memory.</u>	
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 :		

AIIMS, BHUBANESWAR

10

Name of the Supplier			
Order/ Tender Reference & Date	Quantity Ordered	Basic Rate on Order (Rs.)	Adverse Performance Reported if Any

Signature of the Indenting Officer

Signature of Approving Authority.....

Date..... Designation of Officer.....

Dr. Balamurugan Ramadass
Additional Professor
Department of Biochemistry
AIIMS, Bhubaneswar-751019

illumina®

Sept 24, 2020

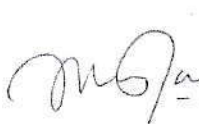
Proprietary Letter

To Whom It May Concern

We, Illumina Singapore Pte. Ltd., a subsidiary of Illumina, Inc., a Delaware corporation, having its principal place of business at 11 Biopolis Way # 09-05 Helios, Singapore 138667, who is established and reputable manufacturers of Illumina Sequencing & Arrays Systems and the consumables for the Sequencing and Arrays Systems. Hereby, confirm that the following products are solely manufactured by Illumina, Inc., U.S.A. and /or Illumina Singapore Pte. Ltd. and is Proprietary technology of Illumina, Inc., U.S.A.

Product Code	Product Name
20038897	NextSeq 2000 Sequencing System

Yours faithfully,



Name: Mavis Tan Kah Ling
Title: Senior Director, Finance, Asia Pacific
For and behalf of Illumina Singapore Pte Ltd

Dr. Balamurugan Ramadass
Additional Professor
Department of Biochemistry
AIIMS, Bhubaneswar-751019



15/10/20



Annexure - III

Quotation

Premas Life Sciences Pvt. Ltd.

E49/5, IInd Floor

Okhla Phase II, Okhla Industrial
Area, New Delhi, 110020, India

CIN: U51909DL2011PTC217592

GSTIN No.: 07AAGCP0079F1ZI

8

Prepared for:

All India Institute of Medical Sciences

Sijua, Patrapada, Bhubaneswar,

ORRISA, 751019, INDIA

Hereinafter referred to as "ALL INDIA INSTITUTE OF MEDICAL SCIENCES"

Quotation Number:	SQPLS/ILM/20-21/0180
Quotation Date:	September 23, 2020
Expiration Date:	December 15, 2020
Prepared By:	Sadaf Zeba
Phone Number:	8655073313
Email:	cs@premaslifesciences.com

Product & Pricing Information:

Catalog # (A)	Product Description (B)	Unit Price (C)	QTY (D)	Discounted Price in INR (E)	GST % applicable (F)	GST Amount in INR (G)	Total FOR Price In (INR) (H)=D*(E+G)
20038897	NextSeq 2000 Sequencing System with (5 Years of warranty) and NextSeq 2000 on Instrument Dragen License for 5 years Illumina NextSeq 2000 Sequencing System is an integrated system for automated generation of DNA clonal clusters by bridge amplification, sequencing, primary analysis, and secondary analysis. System includes embedded touchscreen monitor and on-instrument computer, control software, hardware accelerated Dragen Bio-IT secondary analysis pipelines, installation and training, and 60 months warranty (including parts and labor).	₹ 6,27,05,168.00	1	₹ 4,40,77,450.00	0%	₹ 0.00	₹ 4,40,77,450.00
1000202	10x Genomics - Chromium Controller & Next GEM Accessory Kit, 5 year warranty,	₹ 1,07,60,000.00	1	₹ 74,55,000.00	0%	₹ 0.00	₹ 74,55,000.00
TBD01	Vibration Free Table 2'x2' size approximately	₹ 50,000.00	2	₹ 40,000.00	5%	₹ 2,000.00	₹ 84,000.00
TOTAL FOR AIIMS Bhubaneswar:							₹ 5,16,16,450.00
Special Combo Discount (Valid till 15th Dec 2020)							₹ 20,64,658.00
Final Discount Price FOR up to AIIMS BBSR:							₹ 4,95,51,792.00

15/10/20Dr. Balamurugan Ramadass
Additional Professor
Department of Biochemistry
AIIMS, Bhubaneswar-751019

Term & Conditions:

1. Above quoted prices are FOR, based on FTWZ supply basis.
 2. Delivery within 6 to 8 weeks from date of purchase order
 3. Payment - 100% through inland LC or advance in favour of Premas Life Sciences Pvt. Ltd.
 4. GST will be applicable as per govt. rule at the time of invoicing, if applicable.
 5. Order should be issued in favor of Premas Life Sciences Pvt. Ltd., E-49/5, 2nd Floor, Okhla Industrial Area Phase 2, New Delhi-110020.
- Premas will arrange to clear & deliver the goods from FTWZ complete address as given below.
- ONNSYNEX VENTURES PRIVATE LIMITED**
Plot no. 23, NSEZ Noida, Phase-II, Gautam Budh Nagar 201305 (U.P.) India A/C
Premas Life Sciences Private Limited.
E-49/5, Okhla Industrial Estate, Phase-II,
New Delhi 110020 India.
6. Road Permit/E-Way Bill should be provided for dispatch of material, if any applicable.
 7. Country of Origin & shipment – USA/ Singapore
 8. Above products are for research use only.
 9. GST No. is mandatory to mention in purchase order copy
 10. Please share PO on bidhan@premaslifesciences.com / cs@premaslifesciences.com.
 11. Above quoted price are as per the current exchange rate, in case the exchange rate will increase beyond 5%, the same will be charged extra.
 12. AllIMS- BBSR has to provide the following documents to clear the shipment at FTWZ
 - DSIR Certificate,
 - CDEC (Custom Duty Exemption Certificate signed by director)
 - IEC copy,
 - GST Copy,
 - PAN Card
 - Authorization letter
 13. In absence of valid DSIR – CDEC, actual custom duty and GST will be charged at time of Invoicing
 14. However, if any GST / Tax difference / liability occurs due to change in norms by govt. the same will be borne by purchaser / consignee.



For Premas Life Sciences Pvt. Ltd.

Handwritten notes and stamps at the bottom right of the page, including a date stamp "20/08/2019" and some illegible text.

Term & Conditions:

1. Above quoted prices are FOR, based on FTWZ supply basis.
 2. Delivery within 6 to 8 weeks from date of purchase order
 3. Payment - 100% through inland LC or advance in favour of Premas Life Sciences Pvt. Ltd.
 4. GST will be applicable as per govt. rule at the time of invoicing, if applicable.
 5. Order should be issued in favor of Premas Life Sciences Pvt. Ltd., E 49/5, 2nd Floor, Okhla Industrial Area Phase 2, New Delhi-110020.
- Premas will arrange to clear & deliver the goods from FTWZ complete address as given below.
- ONNSYNEX VENTURES PRIVATE LIMITED**
Plot no. 23, NSEZ Noida, Phase-II, Gautam Budh Nagar 201305 (U.P.) India A/C
Premas Life Sciences Private Limited.
E-49/5, Okhla Industrial Estate, Phase-II,
New Delhi 110020 India.
6. Road Permit/E-Way Bill should be provided for dispatch of material, if any applicable.
 7. Country of Origin & shipment – USA/ Singapore
 8. Above products are for research use only.
 9. GST No. is mandatory to mention in purchase order copy
 10. Please share PO on bidhan@premaslifesciences.com / cs@premaslifesciences.com.
 11. Above quoted price are as per the current exchange rate, in case the exchange rate will increase beyond 5%, the same will be charged extra.
 12. AIIMS- BBSR has to provide the following documents to clear the shipment at FTWZ
 - DSIR Certificate,
 - CDEC (Custom Duty Exemption Certificate signed by director)
 - IEC copy,
 - GST Copy,
 - PAN Card
 - Authorization letter
 13. In absence of valid DSIR – CDEC, actual custom duty and GST will be charged at time of Invoicing
 14. However, if any GST / Tax difference / liability occurs due to change in norms by govt. the same will be borne by purchaser / consignee.



For Premas Life Sciences Pvt. Ltd.

illumina®

Illumina, Inc.
5200 Illumina Way
San Diego, CA 92122 USA
tel 858.202.4500
fax 858.202.4766
www.illumina.com

July 15, 2020

CERTIFICATE OF AUTHORIZATION

This is to certify that Premas Life Sciences Pvt. Ltd. ("Channel Partner"), having a principal place of business at E49/5, 2nd Floor, Okhla Industrial Area, Phase - II, New Delhi - 110020, India, is the selected, authorized and exclusive Channel Partner of Illumina branded products of Illumina, Inc. San Diego, CA, USA and Illumina Singapore Pte. Ltd.

Channel Partner is responsible for product promotion, training, after sales service, distribution, offering, negotiation and entering into contracts for Illumina branded products within the territories of India and Bhutan.

Please note that this certificate does not authorize Channel Partner to take any action that would result in the cancellation, revocation, annulment or rescission (or other similar action) of any existing or future product registration within the territory unless support by a notarized/apostilled letter on Illumina letterhead authorizing such action that is signed by a senior vice president (or higher officer) of Illumina.

This certification is valid until June 30, 2022.

Sincerely,



Kristina Saewert
Sr. Contracts Manager
Illumina, Inc.
Office: 858.754.3024

NextSeq™ 1000 and NextSeq 2000 Sequencing Systems

Explore current and emerging applications with higher efficiency and fewer restraints.

Highlights

- **Scale for the future while driving efficiencies today**

Innovative, scalable platform empowers deeper investigation, larger studies, and higher resolution on a benchtop system

- **Achieve capacity for breakthroughs, support to sustain them**

Cost-efficient, high-throughput system delivers accurate results for emerging applications of increasing complexity

- **Maximize time and resources with an intuitive experience**

Easy-to-use system and on-board informatics streamline workflow and analysis, making NGS accessible to novice and expert users

Innovations in next-generation sequencing (NGS) are helping the genomics community ask, and answer, increasingly complex scientific questions. Across the spectrum of oncology, microbiome research, single-cell studies, and other emerging applications, researchers need sequencing power to help fuel larger studies of more samples at greater sequencing depth and at a lower cost.

To support this expansion in research, Illumina is committed to enabling the exploration of the genome, transcriptome, and epigenome by providing users with innovative advances in technology and systems. Over the last 20 years, Illumina has led the charge to improve sequencing capabilities across the entire workflow, making it easier to use while driving down costs. This tradition continues with the NextSeq 1000 and NextSeq 2000 (Figure 1) Sequencing Systems (Table 1). These game-changing platforms offer breakthrough system design, chemistry innovations, compatibility with an expansive list of library preparation options, and on-board integrated informatics for rapid secondary analysis.

The result: Illumina NextSeq 1000 and NextSeq 2000 Sequencing Systems are scalable platforms that will support the research of today and tomorrow.

Figure 1: The NextSeq 2000 Sequencing System—The latest NGS system from Illumina offers innovative design features, advanced chemistry, simplified bioinformatics, and an intuitive workflow that enable the widest range of applications on a benchtop sequencing system.

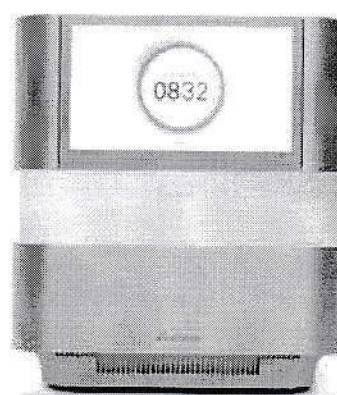


Table 1: Performance parameters for the NextSeq 1000 and 2000 Sequencing Systems

Read length	NextSeq 1000/2000 P2 Reagents ^a	NextSeq 2000 P3 Reagents ^b
Output per flow cell		
2 × 50 bp	40 Gb	100 Gb
2 × 100 bp	80 Gb	200 Gb
2 × 150 bp	120 Gb	300 Gb
Quality scores		
2 × 50 bp	≥ 85% of bases higher than Q30	
2 × 100 bp	≥ 80% of bases higher than Q30	
2 × 150 bp	≥ 75% of bases higher than Q30	
Run time		
2 × 50 bp	~13 hours	~19 hours
2 × 100 bp	~21 hours	~33 hours
2 × 150 bp	~29 hours	~48 hours

a. Available mid 2020

b. Available late 2020

Discover more with our groundbreaking benchtop systems

The NextSeq 1000 and NextSeq 2000 Sequencing Systems leverage the latest advances in optics, instrument design, and reagent chemistry to miniaturize the volume of the sequencing reaction while increasing output and reducing the cost per run. Now, users can obtain the throughput, data quality, and cost needed to expand the size and scope of their studies, all on a benchtop sequencing system.

Increased output powered by our most intuitive experience yet

The NextSeq 1000 and NextSeq 2000 Sequencing Systems use patterned flow cells similar to those that power the NovaSeq[™] 6000 System. The result is a highly flexible and scalable benchtop system that offers the highest cluster density flow cell of any on-market NGS system to date, driving down the cost per gigabase (Gb) of the sequencing run.

To take full advantage of these higher density flow cells, the NextSeq 1000 and NextSeq 2000 Sequencing Systems feature a novel super resolution optics system that yields highly accurate imaging data with greater resolution and higher sensitivity than traditional benchtop systems. This miniaturization provides scalability for a variety of output quantities while maintaining the same high standards of data quality enjoyed by NextSeq 550 System users today.

High-quality data and lower run costs with enhanced reagent chemistry

Building on decades of expertise, the NextSeq 1000 and NextSeq 2000 systems feature the next iteration of industry-leading sequencing by synthesis (SBS) chemistry, optimized to increase cluster brightness, reduce channel cross-talk, and improve signal-to-noise ratio. The combination of this advancement with formulation improvements that reduce the actual reaction size enables NextSeq 1000/2000 reagent users to realize high-quality data and an overall reduction in reagent volume and waste, minimizing physical storage requirements. Additionally, the improved robustness and stability enables ambient shipment of the flow cell.

Pioneer breakthrough studies with access to broader capabilities

With fast, accurate results, extensibility up to 300 Gb*, and flexible informatics options, the NextSeq 1000 and NextSeq 2000 Sequencing Systems are ideal for wide-ranging applications (Table 2) across oncology, genetic disease, reproductive health, agrigenomics, and more. Add in unwavering expert support and labs are set for today's workload and future emerging applications.

* 300 Gb available late 2020; specifications subject to change

Table 2: Some of the broader applications available on the NextSeq 1000 and NextSeq 2000 Systems

Application	NextSeq 1000/2000 P2 Reagents		NextSeq 2000 P3 Reagents	
	No. samples	Time	No. samples	Time
Small whole-genome sequencing (300 cycles) 130 Mb genome; > 30× coverage	30	~29 hours	75	~48 hours
Whole-exome sequencing (200 cycles) 50× mean targeted coverage; 90% targeted coverage at 20×	16	~21 hours	40	~33 hours
Single-cell RNA-Seq (100 cycles) 4K cells, 50K reads/cell	2	~13 hours	5	~19 hours

A powerful, simplified workflow driven by an integrated system and advanced informatics

At Illumina, customer experience is at the center of every innovation, making it as easy as possible to prepare samples, sequence, and analyze data. The NextSeq 1000 and NextSeq 2000 Sequencing Systems offer a simplified workflow, combining load-and-go ease and advanced informatics (Figures 2 and 3) benefiting both new and advanced users.

Easy-to-use cartridge-based platform

The NextSeq 1000 and NextSeq 2000 Sequencing Systems take advantage of an integrated cartridge that includes reagents, fluidics, and the waste holder, simplifying library loading and instrument use. Simply thaw the reagent cartridge, insert the flow cell into the cartridge, load the library into the cartridge, and insert the assembled cartridge into the instrument.

In addition to ease of use, the fully integrated cartridge design improves efficiency throughout the sequencing run. By miniaturizing many of the sequencing reactions, the unique design:

- Lowers sequencing costs
- Improves recyclability and minimizes waste volume

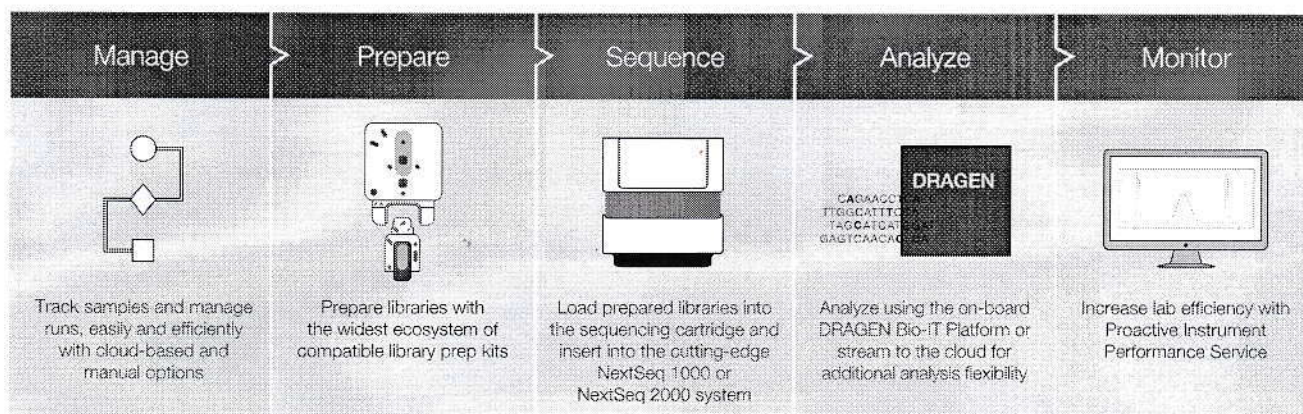
Flexible options for run setup

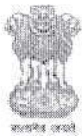
Users can set up a run locally or in the cloud. For local setup, users can create their own sample sheet or take advantage of a convenient, preset Illumina template. Cloud-based setup uses the Run Planner app in BaseSpace™ Sequence Hub. Once the run setup information is ready, it is imported into the NextSeq 1000 and NextSeq 2000 systems. Users then select and start the run of interest. Optimized instrument software provides a cleaner interface with easy-to-read screens, easier to understand run metrics, and improved visualization of instrument and run status compared to earlier benchtop systems. The NextSeq 1000 and NextSeq 2000 systems output industry standard file formats used by various laboratory information management systems (LIMS) for secure, automated sample tracking and information management.

Simplified analysis, flexible options

The NextSeq 1000 and NextSeq 2000 systems offer access to on-board, local, and cloud-based analysis software, giving users the flexibility to analyze data in a manner that meets their needs.

Figure 2: Intuitive library-to-analysis workflow—The NextSeq 1000 and NextSeq 2000 Sequencing Systems provide a comprehensive workflow that includes user-friendly run setup, the widest ecosystem of compatible library prep kits, load-and-go operation, and integrated, on-board secondary analysis.





Report ID: GEM/GARPTS/17122020/YFOEQNSI3NX1

Report Name: Nextseq 2000 sequencing system

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

Generated On: 17/12/2020

Valid till: 16/01/2021

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: Nextseq 2000 sequencing system

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.