CoEM/Purchase/Misc/Con/2025/02-TEN 1/141248/2025



CENTRE OF EXCELLENCE IN MICROBIOME

An initiative of the Govt. of Kerala under KSCSTE

KINFRA Film and Video Park, Chanthavila, Kazhakoottam, Thiruvananthapuram, Kerala 695585, India.

NOTICE INVITING TENDERS

Centre of Excellence in Microbiome, an institution under Kerala State Council for Science, Technology and Environment (KSCSTE), Govt. of Kerala, Thiruvananthapuram invites item rate tenders on Limited tender basis:

NIT No & date	CoEM/Purchase/Misc/Con/2025/02-TEN
Description of NIT	Supply of molecular biology consumables
	(attached list below)
Date & Time of tender publication	15/05/2025; 10:00 AM
Tender Fee	₹ 618/-
Ernest Money Deposit (EMD)	NA
Date of pre-bid meeting	NA
Manufacturer's authorisation required or not	Required (Copy of the certificate to be enclosed)
Last date & time of submission of tender	30/05/2025; 12:30 PM
Date & Time of opening of technical and	30/05/2025; 1:00 PM
financial bid	

The detailed requirements, specifications of procurement and Bid document will be published on website www.kscste.kerala.gov.in under Tender section. If any future updates/corrigendum regarding Bid will be there, it will be only published in website www.kscste.kerala.gov.in during Bid period. Bidder may visit www.kscste.kerala.gov.in regularly during Bid period.

Application for the tender should be accompanied by a Demand Draft (preferably Canara Bank, Kazhakkoottam Thiruvananthapuram) in favour of Director, CoEM for the tender fee of Rs. 618/- which is not refundable under any circumstances.

Completed quotations in sealed cover shall reach the The Director, Centre of Excellence in Microbiome, First floor- RGCB Bio Innovation Center, KINFRA Film & Video Park, Kazhakkoottam, Thiruvananthapuram- 695585 on or before 30-05-2025; 12:30 PM. Quotations received will be opened on 30-05-2025; 1:00 PM. During tender opening, authorization by bidder is not permitted and one bidder can represent only one firm/bidder. Quotations received after the last date & time mentioned will be rejected.

DIRECTOR, CoEM

LIST OF ITEMS

Sl. No	Details of the item(s)	Specification	Quantity	Catalogu e No.	Make
1.	100 bp DNA Ladder, 500 μl	 Size: 50 μg Consists of 10 double-stranded DNA fragments ranging from 100 bp to 1 kb in 100-bp units, plus an additional 1.5 kb fragment 	5	3407A	Takara
		3. 5 μl of this product contains ~50 ng of each band, except the 500 bp fragment which contains ~150 ng. 4. 500 μl volume			
2.	1 kb DNA Ladder , 250 μl	 Size: 50 μg Consists of ten double-stranded DNA fragments ranging from 1 kb to 10 kb in multiples of 1 kb. 	6	3412A	Takara
		3. The 5-kb fragment serves as a visible reference indicator4. 250 μl volume			
3.	100 bp DNA Ladder (DyePlus),500 μl	 Size: 100 rxns Consists of 10 double-stranded DNA fragments ranging from 100 to 1,000 bp in multiples of 100 bp, plus an additional 1,500 bp fragment Can be used directly in agarose gel electrophoresis (premixed with loading dyes and glycerol) 500 μl volume 	2	3422A	Takara
4.	1 kb DNA Ladder (Dye Plus), 500 μl	1. Size: 100 rxns 2. Consists of 10 double-stranded DNA fragments ranging from 1 to 10 kb in multiples of 1 kb 3. The 5-kb fragment serves	2	3426A	Takara

		as a visible reference indicator 4. Can be used directly in agarose gel electrophoresis (premixed with loading dyes and glycerol) 5. 500 µl volume			
5.	Protein Molecular WeightMarker (Broad),200 lanes	1. Size: 200 lanes 2. For use in SDS Polyacrylamide gel electrophoresis 3. Broad (Molecular weight range: 6.5–200 kDa)	1	3452	Takara
6.	dNTP Mixture ,1.28 ml	 1. for PCR 2. ≥98% pure 3. Premixed and contains each dNTP at a concentration of 2.5 mM 4. 1.28 ml volume 	6	4030	Takara
7.	TaKaRa Taq™, 250 U	1. 250 Units (200 reactions of 50 μl) 2. Suitable for routine PCR applications	15	R500A	Takara
8.	E. coli JM109 CompetentCells 100 ,µl x 10	1. Contains E. coli JM109 Competent Cells:100 μl x 10 pBR322 plasmid (0.1 ng/μl): 10 μl SOC Medium:1 ml x 10 2. Can be used as a host of M13 phage vector DNA as well as for preparation of DNA library or sub- cloning. 3. Recombinants can be se- lected easily by adding X- Gal and IPTG to a media utilizing the α- complimentarity to β- galactosidase of the	1	9052	Takara

		competent cells			
9.	Agarose routine, 500 g	 High-quality Low EEO Agarose for routine DNA gel electrophoresis 500 g quantity 	1	5400C	Takara
10.	IPTG (Isopropyl- β- Dthiogalactopyra noside), 5 g	 inducer of β- Galactosidase expression in bacteria. Used with X-Gal for blue/white colony screening to distinguish non-recombinant and recombinant colonies 5 g quantity 	1	9030	Takara
11.	X-Gal (5-Bromo- 4-Chloro- 3- Indolyl-β-D- Galactoside),1 g	 A histochemical substrate for β-Galactosidase and that yields a blue precipitate upon hydrolysis. 1 g quantity 	1	9031	Takara
12.	10X PCR Buff er (Mg2+ plus) ,1 ml x 10	 For DNA amplification by Polymerase Chain Reaction (PCR) and for DNA sequencing Contains 100 mM Tris-HCl (pH8.3) 500 mM KCl 15 mM MgCl2 Size: 1 ml x 10 tubes 	5	9151A	Takara
13.	96well Hi-Plate for RealTime,10 plates	 96well Hi-Plate for Real Time PCR Pack of 10 plates 	2	NJ400	Takara
14.	Mighty TA- cloning Kit , 20 Rxns	1. For fast, easy cloning of PCR products 2. Contains pMD20-T vector (50 ng/μl) : 1 μg (20 μl), Ligation Mighty Mix: 50 μl x 2 and Positive Control Insert: 10 μl	1	6028	Takara
15.	EmeraldAmp® GT PCRMaster Mix,160 Rxns	 Size: 160 rxns 2X PCR master mix is ideal for high-throughput screening Includes a green gelloading dye and a density reagent 	1	RR310A	Takara

		4. Reactions performed with this master mix can be loaded directly onto an agarose gel for electrophoresis.			
16.	QuickCut TM BamH I, 500 Rxns	 Size: 500 μl (500 reactions) Supplied Reagents: 10X QuickCut Buffer: 1.5 ml×2 10X QuickCut Green Buffer: 1.5 ml×2 Enzyme quickly digest substrate DNA in 5 to 30 min 	1	1605	Takara
17.	QuickCut TM EcoR I ,500 Rxns	 Size: 500 μl (500 reactions) Supplied Reagents: 10X QuickCut Buffer: 1.5 ml×2 10X QuickCut Green Buffer: 1.5 ml×2 3. Enzyme quickly digest substrate DNA in 5 to 30 min 	1	1611	Takara
18.	QuickCut TM Not I ,25 Rxns	1. Size: 25 μl (25 reactions) 2. Supplied Reagents: 10X QuickCut Buffer: 500 μl 10X QuickCut Green Buffer: 500 μl 3. Enzyme quickly digests substrate DNA in 5 to 30 min	1	1623	Takara
19.	TaKaRa CBB Protein SafeStain,1 L	Highly sensitive protein staining reagent based on Coomassie Brilliant Blue G- 250 Used to stain SDS-PAGE or native PAGE gels quickly Visualization of protein bands approximately 5 minutes after the staining	1	T9320A	Takara

		process begins, and provides maximum sensitivity after 60 minutes of staining can detect bands containing as little as 8 ng of protein 5. 1 L volume			
20.	NucleoSpin Soil (50)	 Size: 50 preps For the isolation of DNA from soil and sediment Contains NucleoSpin Soil Columns, MN bead tubes, NucleoSpin Inhibitor Removal Columns, Collection Tubes, buffers Processes up to 500 mg (wet weight) of starting material typical yields are in the range of 2 to 10 μg of DNA 	2	740780.5 0	Takara
21.	RNase-free Water (1000 mL)	1. 1000 ml volume 2. RNase-free Water to be used with NucleoSpin RNA or miRNA kits	1	740378.1 000	Takara
22.	RNase-free Water ,1 ml x 10	 Size: 1ml x 10 For use with RNA samples. Avoids risk of inhibiting RT-PCR 	1	9012	Takara
23.	Liquid Proteinase K (5 mL)	 Consists of recombinant Proteinase K enzyme in a ready-to-use format Concentration of 14–22 mg/ml with an activity ≥50 U/ml. 5 ml volume 	1	740396	Takara

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TERMS & CONDITIONS

- 1. Tender Documents shall be available only on KSCSTE Website and not for sales elsewhere.
- 2. The bids will be opened on the date as mentioned in the NIT. Bidders or their representatives may be present during the opening of bids, if they wish to be present. CoEM will evaluate the bids as per the terms of the tender. Those bids, which fulfil the technical requirements and are responsive to the tender requirements will only be considered. Those bids which are found to be either non-responsive, not satisfying the technical requirements or both will be rejected.
- **3.** During the bid evaluation, the CoEM may, at its discretion, ask the Bidder for clarifications of their bid in writing/e-mail and the bidder is also required to provide the clarification in writing/e-mail. No change in the price or substance of the bid shall be sought, offered or permitted.
- **4.** CoEM will award the contract to the Bidder whose bid has been determined to be substantially responsive, technically qualified and the Overall Lowest Quoted Evaluated Bid.
- **5.** Delivery at the destination provided by CoEM should strictly be completed within the stipulated period of delivery i.e. within 30 days from issue of the purchase order.
- **6.** If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to 0.5 percent of the delivered price of the delayed Goods or unperformed Installation for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of 10 Percent.
- 7. Manufacturer authorisation certificate and technical literature/ hand book /data sheets if any etc. must be sent along with the bid.
- **8.** CoEM reserves the right to cancel the order in case the items are not supplied within the stipulated period or non fulfilment of contractual obligations.
- **9.** Payment will be made only after the satisfactory completion of service for which the supplier shall submit bills in duplicate. In case of any defects to the materials supplied by the bidder, it should be replaced prior to release of the payment.
- 10. The quoted rates shall be inclusive of all taxes and also the bidder shall include charges like GST, freight, handling, loading, unloading, insurance premiums and placement at the facility supply and deployment. No compensation will be paid in case of any upward revision in the statutory taxes and levies or introduction of new taxes and levies.
- 11. A firm should submit only one proposal. If a firm submits more than one proposal, all such proposals shall be disqualified. Also, must comply with the Technical Specification, General Conditions and Format/Requirements for Technical and Financial proposal.

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- **12.** Price quoted should be valid for 90 days from the due date of the tender.
- 13. The CoEM may, at its discretion, extend the deadline for submission of bids specified in the NIT, in which case all rights of the CoEM and all obligations of the Bidders will thereafter be subject to the deadline as extended.
- **14.** CoEM reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders. The CoEM reserves the right to negotiate with the Bidder having the Lowest Evaluated Bid.
- **15.** CoEM being the Purchaser, reserves the right to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions at the time of award of Contract.
- **16.** The courts at Thiruvananthapuram shall have jurisdiction over any dispute regarding this tender.
- **17.** Interested bidders are to submit their duly signed and sealed quotation along with all requisite documents as per prequalification in separate sealed envelope superscribing "Tender No. CoEM/Purchase/Misc/Con/2025/02-TEN dated 15/05/2025" on or before due date 30.05.2025, 12:30 PM.
- **18.** Late bids will not be considered.
- 19. Bid should be addressed to:

The Director Centre of Excellence in Microbiome First floor- RGCB Bio Innovation Center KINFRA Film and Video Park, Kazhakkoottam Thiruvananthapuram, Kerala-695 585.

DOCUMENTS COMPRISING THE BID:

- 1. The bidders must submit an undertaking in the prescribed format as per Annexure I.
- 2. The bidder must submit a brief description of the list of items, make, catalogue number, quantity and specifications as per **Annexure II.**
- 3. Bidders must also submit a financial bid as per Annexure III.
- **4.** Bidders must also submit a declaration sheet as per **Annexure IV** and the documents mentioned in **Annexure IV**.

ANNEXURE I

[To be submitted on letter head of the supplier]

To

The Director Centre of Excellence in Microbiome

UNDERTAKING BY THE TENDERER

	I/WE						have c		one through
the	various	terms		conditions	mentioned	in	the	tender	documen
CoEM	[/Purchase/	Misc/Cor	1/2025/0	2-TEN dated	5/05/2025.				
	I/We have	e underst	ood the	quantity of	ly reading the items/technica aking this offer	l spec			_
includ	This tende				s including the	attacl	nments	and all the	documents
mentic	I/We here			dertaking as	token of our	accep	otance o	of various	conditions
goverr	Further comment organ		that I/V	VE (the firm)) has never	been	debarre	d/blacklist	ed by any
		(Author	rized Na	me & Signato	ry of Agency/j	firm w	ith stan	np)	
Place:									
Dated:									

Annexure II

LIST OF ITEMS

[To be submitted on letter head of the supplier] **Technical specification**

Sl. No	Details of the item(s)	Specification	Quantit y	Catalo gue No.	Make	YES/ NO
1.	100 bp DNA Ladder, 500 μl	 Size: 50 μg Consists of 10 double- stranded DNA fragments ranging from 100 bp to 1 kb in 100-bp units, plus an additional 1.5 kb fragment 	5	3407A	Takar	
		 3. 5 µl of this product contains ~50 ng of each band, except the 500 bp fragment which contains 4. ~150 ng. 5. 4. 500 µl volume 			a	
2.	1 kb DNA Ladder , 250 μl	 Size: 50 μg Consists of ten double-stranded DNA fragments ranging from 1 kb to 10 kb in multiples of 1 kb. 	6	3412A	Takar a	
		3. The 5-kb fragment serves as a visible reference indicator4. 250 µl volume				
3.	100 bp DNA Ladder	1. Size: 100 rxns	2	3422A	Takar a	

	(DyePlus),500 μl	 Consists of 10 double- stranded DNA fragments ranging from 100 to 1,000 bp in multiples of 100 bp, plus an additional 1,500 bp fragment Can be used directly in agarose gel electrophoresis (premixed with loading dyes and glycerol) 500 μl volume 			
4.	1 kb DNA Ladder (Dye Plus), 500 μl	 Size: 100 rxns Consists of 10 double- stranded DNA fragments ranging from 1 to 10 kb in multiples of 1 kb The 5-kb fragment serves as a visible reference indicator Can be used directly in agarose gel electrophoresis (premixed with loading dyes and glycerol) 500 μl volume 	2	3426A	Takar
5.	Protein Molecular WeightMarker (Broad),200 lanes	 Size: 200 lanes For use in SDS Poly- acry- lamide gel elec- trophore sis Broad (Molecular weight range: 6.5–200 kDa) 	1	3452	Takar
6.	dNTP Mixture ,1.28 ml	 for PCR ≥98% pure Premixed and contains each dNTP at a con- 	6	4030	Takar a

7.	TaKaRa Taq™, 250 U	centration of 2.5 mM 4. 1.28 ml 2. 250 Units (200 reactions of 50 µl) 2. Suitable for routine PCR applications	15	R500A	Takar a	
8.	E. coli JM109 CompetentCells100, µl x 10	1. Contains E. coli JM109 Competent Cells:100 μl x 10 pBR322 plasmid (0.1 ng/μl): 10 μl SOC Medium:1 ml x 10 2. Can be used as a host of M13 phage vector DNA as well as for preparation of DNA li-	1	9052	Takar	
		brary or subcloning. 3. Recombinants can be selected easily by adding X-Gal and IPTG to a media utilizing the α-complimentarity to β- galactosidase of the competent cells				
9.	Agarose routine, 500 g	1. High-quality Low EEO Agarose for routine DNA gel electrophoresis 2. 500 g quantity	1	5400C	Takar a	
10.	IPTG (Isopropyl-β- Dthiogalactopyranosi	1. inducer of β- Galactosidase	1	9030	Takar a	

	1			1	1
	de), 5 g	expression in bacteria. 2. Used with X-Gal for blue/white colony screening to distinguish non-recombinant and recombinant colonies 3. 5 g quantity			
11.	X-Gal (5-Bromo-4- Chloro- 3-Indolyl-β- D- Galactoside),1 g	 A histochemical substrate for β-Galactosidase and that yields a blue precipitate upon hydrolysis. 1 g quantity 	1	9031	Takar a
12.	10X PCR Buff er (Mg2+ plus) ,1 ml x 10	 For DNA amplification by Polymerase Chain Reaction (PCR) and for DNA sequencing Contains 100 mM Tris-HCl (pH8.3) 500 mM KCl 15 mM MgCl2 Size: 1 ml x 10 tubes 	5	9151A	Takar
13.	96well Hi-Plate for RealTime,10 plates	 96well Hi-Plate for Real Time PCR Pack of 10 plates 	2	NJ400	Takar a
14.	Mighty TA-cloning Kit, 20 Rxns	1. For fast, easy cloning of PCR products 2. Contains pMD20-T vector (50 ng/μl) : 1 μg (20 μl), Ligation Mighty Mix: 50 μl x 2 and Positive Control Insert: 10 μl	1	6028	Takar a
15.	EmeraldAmp® GT PCRMaster Mix,160 Rxns	1. Size: 160 rxns 2. 2X PCR master	1	RR310 A	Takar a

		mix is ideal for high-throughput screening 3. Includes a green gel- loading dye and a density reagent 4. Reactions performed with this master mix can be loaded directly onto an agarose gel for electrophoresis.				
16.	QuickCut TM BamH I, 500 Rxns	1. Size: 500 µl (500 reactions) 2. Supplied Reagents: 10X QuickCut Buffer: 1.5 ml×2 10X QuickCut Green Buffer:1.5 ml×2 3. Enzyme quickly digest substrate DNA in 5 to 30 min	1	1605	Takar	
17.	QuickCut™ EcoR I ,500 Rxns	 Size: 500 µl (500 reactions) Supplied Reagents: 10X QuickCut Buffer: 1.5 ml×2 10X QuickCut Green Buffer: 3. 1.5 ml×2 4. Enzyme quickly digest substrate DNA in 5 to 30 	1	1611	Takar	

		min				
18.	QuickCut TM Not I ,25 Rxns	 Size: 25 μl (25 reactions Supplied Reagents: 10X QuickCut Buffer: 500 μl 10X QuickCut Green Buffer: 500 μl Enzyme quickly digests substrate DNA in 5 to 30 min 	1	1623	Takar	
19.	TaKaRa CBB Protein SafeStain,1 L	 Highly sensitive protein staining reagent based on Coomassie Brilliant Blue G-250 Used to stain SDS-PAGE or native PAGE gels quickly Visualization of protein bands approximately 5 minutes after the staining process begins, and provides maximum sensitivity after 60 minutes of staining can detect bands containing as little as 8 ng of protein 1 L volume 	1	T9320 A	Takar	
20.	NucleoSpin Soil (50)	 Size: 50 preps For the isolation of DNA from soil and sediment Contains NucleoSpin Soil Col- 	2	74078 0.5 0	Takar a	

		umns, MN bead tubes, Nucle- oSpin Inhibitor Removal Col- umns, Collection Tubes, buffers 4. Processes up to 500 mg (wet weight) of starting material 5. Typical yields are in the range of 2 to 10 µg of DNA				
21.	RNase-free Water (1000 mL)	1. 1000 ml volume 2. RNase-free Water to be used with Nucle- oSpin RNA or miRNA kits	1	74037 8.1 000	Takar a	
22.	RNase-free Water ,1 ml x 10	 Size: 1ml x 10 For use with RNA samples. Avoids risk of inhibiting RT-PCR 	1	9012	Takar a	
23.	(5 mL)	 Consists of recombinant Proteinase K enzyme in a ready-to-use format Concentration of 14—22 mg/ml with an activity ≥50 U/ml. 5 ml volume 	1	740396	Takar a	

Place:		Signature
Date:		Name of the authorized
Signatory.		
	(Seal of the Company /Firm)	

Annexure III

Financial Bid

(To be submitted on letter head of the supplier)

Tender No. CoEM/Purchase/Misc/Con/2025/02-TEN

includ	ling all ta	axes.											
Rs				(Rupee	S)
contai	ned	iı	1	the		Tender		do	cume	ent	S	hall	be
Total	amount	for pr	oviding	of the	listed	materials	at	CoEM	as p	er the	terms	and	conditions

Sl. No	Details of the item(s)	Qty	Catalo gue No.	Make	Unit Price	GST	Total Price
1.	100 bp DNA Ladder, 500 μl	5	3407A	Takara			
2.	1 kb DNA Ladder , 250 μl	6	3412A	Takara			
3.	100 bp DNA Ladder (DyePlus),500 μl	2	3422A	Takara			
4.	1 kb DNA Ladder (Dye Plus), 500 μl	2	3426A	Takara			
5.	Protein Molecular WeightMarker (Broad),200 lanes	1	3452	Takara			
6.	dNTP Mixture ,1.28 ml	6	4030	Takara			
7.	TaKaRa Taq™, 250 U	15	R500A	Takara			
8.	E. coli JM109 CompetentCells100 ,µl x 10	1	9052	Takara			
9.	Agarose routine, 500 g	1	5400C	Takara			
10.	IPTG (Isopropyl-β- Dthiogalactopyranos ide), 5 g	1	9030	Takara			
11.	X-Gal (5-Bromo-4- Chloro- 3-Indolyl-β- D- Galactoside),1 g	1	9031	Takara			

12.	10X PCR Buff er (Mg2+ plus) ,1 ml x 10	5	9151A	Takara				
13.	96well Hi-Plate for RealTime,10 plates	2	NJ400	Takara				
14.	Mighty TA-cloning Kit, 20 Rxns	1	6028	Takara				
15.	EmeraldAmp® GT PCRMaster Mix,160 Rxns	1	RR310 A	Takara				
16.	QuickCut™ BamH I, 500 Rxns	1	1605	Takara				
17.	QuickCut™ EcoR I ,500 Rxns	1	1611	Takara				
18.	QuickCut™ Not I ,25 Rxns	1	1623	Takara				
19.	TaKaRa CBB Protein SafeStain,1 L	1	T9320A	Takara				
20.	NucleoSpin Soil (50)	2	74078 0.5 0	Takara				
21.	RNase-free Water (1000 mL)	1	74037 8.1 000	Takara				
22.	RNase-free Water ,1 ml x 10	1	9012	Takara				
23.	Liquid Proteinase K (5 mL)	1	740396	Takara				
Total An	Total Amount (Inclusive of Taxes)							
Total An	Total Amount in words (Inclusive of Taxes)							

Place:	Signature:
Date:	Name of the authorized Signatory:

(Seal of the Company /Firm)

Annexure IV

[To be submitted on letter head of the supplier]

DECLARATION SHEET

I/WE,	hereby	certify	that all	the
information and data furnished by our organization with regard to the	is tender	specifica	ation are	true
and complete to the best of our knowledge. I have gone through th	e specific	ation, co	onditions	and
stipulations in details and agree to comply with the requirements an	nd intent	of specif	ication.	This
is certified that our organization has been authorized (Copy attached	l) by the	original ı	nanufac	turer
to participate in Tender. We further certified that our organization	n meets	all the o	condition	is of
eligibility criteria laid down in this tender document.				

We, further specifically certify that our organization has not been Blacklisted/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/Public Sector Undertaking in the last three years.

		· · · · · · · · · · · · · · · · · · ·
1	Name & Address of the Vendor/ Bidder	
2	Phone	
3	Fax	
4	E-mail	
5	Contact Person Name	
6	Mobile Number	
7	TIN (Copy to be enclosed)	
8	PAN (Copy to be enclosed)	
9	GST Number (Copy to be enclosed)	
10	Is a license or permit required for the supply of items? If yes, mention the authority to apply to	
11	No. of days within which the items can be delivered to CoEM after issue of purchase	

(order (Maximum: 30 days)	

(Authorized Signature with Seal)