



अखिल भारतीय आयुर्विज्ञान संस्थान नागपुर
ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NAGPUR

Address: Plot No.2, Sector - 20, MIHAN Nagpur - 441108

Email: anatomy@aiimsnagpur.edu.in

DEPARTMENT OF ANATOMY

D.No: AIIMS-NGP/ANAT/ICMR-T.S.G/2025/66

Date: 25.11.2025

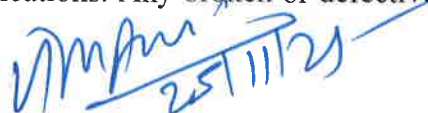
NOTICE INVITING QUOTATIONS

The Executive Director, All India Institute of Medical Sciences (AIIMS), Nagpur, invites sealed quotations from reputed and authorized suppliers for the supply of the following consumable item required for the analysis of sperm DNA fragmentation under the ongoing ICMR-funded project in the Department of Anatomy, AIIMS Nagpur:

S. No	Items	QTY.	Unit Price	Total	GST %	Net Total with GST
01	Sperm Chromatin Dispersion Analysis Kit (SCD Kit) (Pack Size: 10 testing/Pack) Specification attached Annexure 'A'	10 Packs				


TERMS OF CONDITIONS:

1. All quotations must be submitted only to the addressee, **The Executive Director, AIIMS Nagpur, Plot No. 2, Sector 20, MIHAN, Nagpur - 441108, Maharashtra**. Quotations that are not addressed to the Executive Director, AIIMS Nagpur, will be summarily rejected.
2. The price quoted in the submitted quotation shall clearly mention, as per the aforesaid table, the unit price excluding GST, the total unit price for the requisite quantity excluding GST, GST percentage and its amount, and the total price with applicable GST.
3. The list of mandatory documents to be submitted under this NIQ is provided in *Annexure 'B'*. The vendor must submit a duly signed copy of *Annexure 'B'* and must enclose all the documents listed therein. Additionally, all submitted documents must be serially numbered at the top, and the corresponding page numbers shall be clearly indicated in *Annexure 'B'*.
4. The delivery of the item shall be completed within 30 days from the date of issue of the supply order.
5. Liquidated Damages Charges: In the event of the Seller's failure to supply the goods/services as per the contract, Liquidated Damages (LD) charges shall be levied at 0.5% of the contract price of the delayed or undelivered goods/services for each week of delay or part thereof, subject to a maximum of 10% of the value of the delayed goods/services.
6. Payment will be released only after the supplied material is inspected and found satisfactory by the user department with respect to quality, quantity, and specifications. Any broken or defective items must be replaced before payment is processed.


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7. Interested bidders shall submit their quotations in a sealed envelope, either in person or by courier, to “The Central Store, First Floor, IPD Block, Plot No. 2, Sector 20, MIHAN, Nagpur - 441108, Maharashtra”. The sealed cover must be clearly superscribed as: “Quotation for Supply of Sperm Chromatin Dispersion Analysis Kit (SCD Kit) for the Ongoing ICMR Project in the Department of Anatomy, AIIMS Nagpur, NIQ No. AIIMS-NGP/ANAT/ICMR-T.S.G/2025/66 Dated: 25.11.25.”
8. Post-delivery delays will under no circumstances be considered, and all quotations must reach AIIMS Nagpur by 17:00 hrs on the due date 03/12/25. AIIMS Nagpur reserves the right to accept or reject any quotation without assigning any reason.


Administrative Officer
AIIMS, Nagpur

रोहन एल. बागडे / Rohan L. Bagde
शासनिक अधिकारी / Administrative Officer
अ.मा.आ.सं. नागपुर / AIIMS, Nagpur

TECHNICAL SPECIFICATION OF THE SPERM CHROMATIN DISPERSION (SCD) KIT
(Annexure of D.No: AIIMS-NGP/ANAT/ICMR-T.S.G/2025/66)

1. Purpose

- The Sperm Chromatin Dispersion (SCD) Test Kit shall be used for the evaluation of sperm DNA fragmentation by light microscopy.
- The test is based on the principle that sperm with intact DNA form characteristic halos of dispersed chromatin, whereas sperm with fragmented DNA shows minimal or no halo formation after acid denaturation and protein lysis.

2. Intended Use

- For research use in assessing sperm DNA integrity in human semen samples. The method shall allow quantification of sperm with fragmented and intact DNA under brightfield microscopy.

3. Method Principle

- The method and principle of the Sperm Chromatin Dispersion (SCD) Test must be the same as described in the World Health Organization (WHO) Laboratory Manual for the Examination and Processing of Human Semen, 6th Edition.
- Briefly, the method relies on embedding spermatozoa in an agarose matrix, followed by controlled acid denaturation and lysis. Spermatozoa with intact chromatin produce characteristic halos of dispersed DNA loops, whereas those with fragmented DNA exhibit minimal or no halo formation. After staining, the slides are evaluated under light microscopy, and spermatozoa are classified according to the size of the dispersion halo.

4. Composition / Reagents

- Each kit pack must be capable of testing 10 samples. If the bidder's offered brand provides a different pack size, the bidder must quote for a total testing capacity of 100 samples.
- Detailed instruction manual must be included.
- All reagents must be ready-to-use or supplied in a form requiring minimal reconstitution.
- The complete SCD Test Kit shall contain all reagents required to perform the assay as per the protocol, detailed in the said WHO Manual (6th Edition), including the following:

Sl No	Item Description	Quantity	Remarks
1	Diluent	10 mL	Dropper bottle
2	Low Melting Point Agarose	10 No	Each 0.06mL in a 0.5mL Tube
3	Agarose coated Slides	10 slides	-
4	Lysis A Powder	10 amber vials	Each 20mg/ 2 ml
5	Lysis A Solution	10mL	Wide mouth bottle
6	Lysis B Solution	10mL	Dropper bottle
7	Fixative	10mL	Dropper bottle
8	Giemsa A	10mL	Dropper bottle
9	Giemsa B	10mL	Dropper bottle
10	Coverslips	20 No	40mm x 22mm

5. Kit Performance Requirements

Parameter	Specification
Sample type	Human semen (fresh or cryopreserved)
Detection principle	Light microscopy (brightfield), dispersion halo evaluation
Microscopy Compatibility	Standard laboratory brightfield microscope with 100× oil immersion objective
Storage Conditions	2–8 °C (refrigerated); stable at room temperature during use
Shelf Life	Minimum 12 months from date of manufacture
Processing Time	≤ 2 hours per batch
Reproducibility	Inter-assay variation ≤ 10% (for same sample tested across batches)

6. Result Interpretation

The test shall allow classification of spermatozoa into the following categories as described in the said WHO manual (6th Edition):

- Large halo (intact DNA)
- Medium halo
- Small halo
- Without halo
- Without halo-degraded (severely fragmented DNA)

7. Quality and Standards

- Lot-to-lot consistency data must be available.
- Each kit shall be supplied with a certificate of analysis and quality control documentation.
- Reagents must be traceable to batch numbers.

8. Packaging and Labeling

- All reagents must be clearly labeled with name, concentration, lot number, manufacture and expiry date, storage conditions, and hazard symbols (if applicable).
- The complete kit must be packed securely to prevent leakage or breakage during transport.
- Each kit must include an instruction manual with detailed step-by-step procedure, interpretation guidelines, and troubleshooting information.

9. Warranty and Replacement

- The supplier shall provide a warranty of at least 9 months from the date of supply.
- Reagents found defective, not performing within expired date, or damaged during shipment shall be replaced at no cost.

LIST OF MANDATORY DOCUMENTS TO BE SUBMITTED

S.No	Particulars of the Documents	Enclosed (Yes/No)	Page No	Remarks (If Any)
01	Quotation (Quotation must be addressed only to The Executive Director, AIIMS Nagpur. The quoted price should clearly indicate both the price excluding GST and the price including GST, as specified in the table provided in the published NIQ).			
02	Duly signed copy of the NIQ, indicating acceptance of all terms and conditions mentioned therein.			
03	Duly signed copy of Annexure 'A', confirming compliance with the technical specifications of the procured item. In case of any deviations from the recommended technical specifications in the item being supplied, the vendor must clearly specify the same.			
04	Copy of the product brochure of the quoted item.			
05	Declaration stating that the vendor is not debarred by the Department of Commerce or any other Ministry/Department. The declaration date must be on or after the NIQ publication date and on or before the quotation submission deadline.			
06	GST Registration Certificate.			
07	Bank Details such as Account Number, Bank and Branch Name, IFSC code.			

Declaration: It is understood that failure to submit any of the documents mentioned above will render the vendor's techno-commercial response non-compliant during the technical evaluation.

Date:

Place:

Signature with Seal

