

**Request for Proposal (RFP)**  
**for Procuring Equipment's and Consumables for Clinical,**  
**Anthropometric and Biochemical (CAB) Tests in**  
**National Family Health Survey (NFHS-6)**  
**2022-2023**

**Bid Document**



**International Institute for Population Sciences**  
**(Deemed University)**

**Govandi Station Road, Opposite Sanjona Chamber,**  
**Deonar, Mumbai-400088, Maharashtra**  
**Tel: 91-22-42372400; Fax: 91-22-25563257**



## Key Events and Dates

1.	Tender Inviting Authority	International Institute for Population Sciences, Govandi
2.	Job Requirement	Procuring Equipment's and Consumables for Clinical, Anthropometric and Biochemical (CAB) Tests in National Family Health Survey (NFHS-6) 2022-2023a
3.	Announcement of Bids for 2022-23 NFHS-6 Field Agencies	12 <sup>th</sup> September, 2022
4.	Any query on Bid document	Up to 20 <sup>th</sup> September, 2022, 5:00 pm on email : <a href="mailto:nfhs6pmu@gmail.com">nfhs6pmu@gmail.com</a>
5.	Pre-Bid Meeting	22 <sup>nd</sup> September, 2022 at NIHFW, New Delhi from 4.30 pm to 5.30 pm.
6.	Date of uploading of the submission of	30 <sup>th</sup> September, 2022, 5.00 pm on GeM portal
7.	Opening of bids, technical evaluation and financial evaluation	To be announced through the GeM portal/IIPS/PPP
8.	Submission of Performance Security, Signing of Contract and submission of bank guarantee	To be announced through IIPS website

Note: 1. Suppliers registered with the GeM portal may attend the Pre-Bid Meeting

## Checklist of eligibility for opening Technical Bid

Sl No.	Items	Tick
1	Certificate of Registration/License	
2	PAN Card	
3	Certificate of GST Registration	
4	Processing fees* of Rs. xxxxx	
5	EMD* for Equipments and consumable are given in	

\*Should be paid through Demand Drafts drawn in favour of “Director, IIPS” payable at Mumbai.

### Note:

1. It is mandatory for organization/bidder to submit one combined bid document, specifying all the details and specifications if the organization or bidder bidding for more than one biomarker item instead of providing separate bid for each of the items.
2. IIPS reserves the right to modify any term and condition pertaining to the RFP for evaluation of technical and financial bids.
3. Potential bidders are requested to visit IIPS website regularly for further updates.

### Issues, observations and suggestion obtained during pre-bid conference

Sl No.	Issues, observations and suggestion	Remark
1		
2		
3		

# **Bid for Procuring Equipment's and Consumables for Clinical, Anthropometric and Biochemical (CAB) Tests in National Family Health Survey (NFHS-6)**

## **1. INTRODUCTION**

### **1.1 Purpose of Request for Proposal (RFP)**

The purpose of this Proposal is to procure the CAB equipment's and consumables required for conducting the sixth round of National Family Health Survey (NFHS)-6 in India during 2022-2023

### **1.2: Background**

The National Family Health Survey (NFHS) in India was initiated in the early 1990s with the first NFHS being conducted in 1992-93. Since then, India has successfully completed five rounds - NFHS-2 in 1998-99, NFHS-3 in 2005-06, NFHS-4 in 2015-16 and NFHS-5 in 2019-2020. All five rounds of the survey were conducted under the stewardship of the Ministry of Health and Family Welfare (MoHFW), Government of India, with the International Institute for Population Sciences (IIPS), Mumbai, as the nodal agency and technical assistance provided by the United States Agency for International Development (USAID) through ICF Macro (now called ICF)<sup>1</sup>. USAID has been the primary funding agency for the NFHS-1 and NFHS-2 surveys, whereas for NFHS-3, NFHS-4 and NFHS-5, other development organizations, such as DFID, the Bill and Melinda Gates Foundation, UNICEF, UNFPA, the MacArthur Foundation, as well as the Government of India, also supported the surveys in a major way. For NFHS-5 the main source of funding was Government of India along with contributions from USAID and UNICEF. The main objectives of the NFHS programme have been to strengthen India's demographic and health database by providing information that is both reliable and relied upon; to strengthen the survey research capabilities of Indian institutions to provide, analyze, and disseminate high quality data; and to anticipate and meet the country's needs for data on emerging health and family welfare issues. In 2022-2023, India will implement the sixth round of the National Family Health Survey (NFHS- 6). Like its predecessors, NFHS-6 will be conducted under the stewardship of the Ministry of Health and Family Welfare, coordinated by the International Institute for Population Sciences (IIPS), Mumbai, and implemented by a group of survey organizations and Population Research Centers, following a rigorous selection procedure.

## **2. SPECIFIC OBJECTIVES AND SCOPE OF NFHS-6**

Each successive round of the NFHS has had two specific goals: a) to provide essential data on health and family welfare required by the Ministry of Health and Family Welfare and other agencies for policy and programme purposes, and b) to provide information on important emerging health and family welfare issues. To meet the first of the two objectives; NFHS-6, like NFHS-1, NFHS-2, NFHS-3, NFHS-4 and NFHS-5, will Provide estimates of the levels of fertility, infant and child mortality, maternal and child health, and other health and family welfare indicators by background characteristics at the national and state levels; and measure trends in health and family welfare indicators over time at the national and state levels. Similar to the NFHS-5, NFHS-6 will also provide information on several emerging issues including:

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<sup>1</sup>ICF International implements the USAID-supported MEASURE DHS Project, and has the experience of providing technical assistance to more than 300 surveys in more than 90 countries.

perinatal mortality, high-risk sexual behaviour, safe injections, tuberculosis, and malaria; Non-communicable diseases; Use of emergency contraception; and Disability as was in case of NFHS-5, which is being considered as a benchmark in India's quest to achieve the Sustainable Development Goals (SDGs) by 2030. The scope of NFHS-6 has been expanded substantially. Some salient features of NFHS-6 are: in addition to the 28 states, NFHS-6 will also cover all the eight Union Territories (UTs) was done as in NFHS-5. Similarly, NFHS-6 will provide estimates of most indicators at the district level for all 731 districts in the country as on June 30<sup>th</sup>, 2021.

Given the need to estimate most demographic and health indicators at the district level, the NFHS-6 sample size is expected to be approximately 677,684 households (in all 731 districts). As the survey will elicit information (using Household, Woman's, Man's, and Biomarker questionnaires) from all women age 15-49 and men age 15-54 in a subsample of households, it is estimated that NFHS-6 will yield a total sample of 750000 women aged 15-49 years, and 120000 men aged 15-54 years. In these households, information on about 250000 children below age 5 will be also collected in the survey.

Data will be collected using Computer Assisted Personal Interviewing (CAPI) on mini-notebook computers. CAPI eliminates the need for a separate data entry operation and for data editing in the field. With essential data consistency checks built into the programming, data are also likely to be of better quality. Additionally, data will be sent to the central office on a daily basis, enabling fast feedback to teams on quality or other concerns, as required. It is expected that about 17-18 field agencies will be selected to implement the data collection.

Height/length, weight and haemoglobin measurements for women age 15-49, men age 15-54, and children age under 5 years will also be included in NFHS-6. All related estimates will be provided at the district level.

Like in NFHS-5, other components included in the domain of clinical, anthropometric and biochemical testing (CAB) in NFHS-6 are blood glucose and hypertension measurements from respondents age 15 and above to provide estimates at the district level. In addition, NFHS-6 will be collecting finger-stick blood to produce dried blood spots (DBS) from a sub-sample of respondents to provide updated estimates of HIV, Hepatitis B and Hepatitis C sero-prevalence among adults and Hepatitis-B sero-prevalence in children age 4-5 years in India.

### **3. INTRODUCTION OF CAB**

CAB stands for Clinical, Anthropometric and Biochemical tests which are integrated in NFHS- 6, to collect information on nutrition and health. A biomarker may be thought of as a characteristic that can be independently measured and evaluated as an indicator of normal biologic processes, pathogenic processes, or pharmacologic response to a therapeutic intervention. Biomarker measurements can serve as diagnostic tools to identify diseases in their early stages and can be used

as surveillance tools to track changes in disease patterns or to evaluate intervention programs. In population-based surveys, biomarkers help to assess the prevalence or occurrence of diseases or health conditions and can also be used at a macro level to measure the long-term effect of policies and programs. In NFHS, biomarkers are measured in order to report levels of specific diseases and conditions at the population level. Specific to NFHS-6, the following biomarkers will be measured: Random blood glucose, blood pressure, height/length and weight, HIV, Hepatitis B and Hepatitis C sero-prevalence along with test for iodization of salt. Portable Glucometers will be used for random blood glucose testing. Lancets and all blood-contaminated materials will be disposed of in a biohazard bag according to an established protocol. Only paramedical or other personnel with specific training on the procedures and on universal precautions regarding blood-borne pathogens will be used for conducting the random blood glucose, and preparing dried blood spot (DBS) for testing of HIV, Hepatitis B and Hepatitis C.

#### **4. SURVEY ORGANIZATION**

NFHS-6 is being conducted at the request of the Ministry of Health and Family Welfare which has a primary role in the planning for the survey and in the analysis and dissemination of the survey results. The International Institute for Population Sciences (IIPS) will serve as the implementing agency for NFHS-6. IIPS will take responsibility for operational matters including planning and conducting fieldwork, processing of collected data and organizing the writing and distribution of reports. IIPS will furnish the necessary central office space for survey personnel and will undertake to secure transport for the data collection activities. Staff from IIPS will be responsible for overseeing the day-to-day technical operations including recruitment and training of field and data processing staff and the supervision of the office and field operations.

#### **5. DETAILS OF EQUIPMENTS AND CONSUMABLES FOR CAB MEASUREMENTS & TESTS**

##### **General Terms and Conditions:**

- i. The proposal, along with all the correspondence and documents exchanged by the bidder and IIPS shall be written in the English language.
- ii. **Amendments to the tender:** IIPS reserves rights to amend any of the tender conditions or a part thereof before the last date for the receipt of the tender, if necessary. Amendments, if any, would be placed on the institute's website ([www.iipsindia.org](http://www.iipsindia.org)). The decision of extending the due date and time for the submission of tender documents on the account of amendments will be at the sole discretion of IIPS.
- iii. IIPS reserves the right to cancel the RFP at any stage without citing any reason.
- iv. **Performance Security:** As per GeM portal.
- v. No proposal shall be accepted unless it is properly sealed. The documents should be sent by speed post/registered post/courier or hand delivered. IIPS will not be responsible for any postal delay.

- vi. The bidder is advised to attach any additional information that is considered necessary to establish its capabilities. No further information will be entertained after submission of application unless it is required by IIPS. The IIPS reserves the right to call for additional information and clarification on information submitted by the bidders.
- vii. Proposals must be received by IIPS, at the address specified not later than the date and time specified in the Invitation of RFP. In case the specified date for the submission of proposal is a declared holiday at the IIPS, the same will be received on next working day with the same specified time. Proposals received after the due date and time specified will automatically be rejected.
- viii. Submission of tender: Sealed tenders received up to 5:00 PM of \*\*\*\*\* will be taken up for opening. Tenders received after specified date and time will not be accepted. IIPS reserves the right to disqualify any of the tenders in case it is not satisfied with the documents furnished or otherwise, without assigning any reasons thereof. Any efforts by



an agency to influence the IIPS personnel or representative on matters relating to bids under consideration in the process of examination, clarification, evaluation and comparison of bids and in decision concerning award of Contract, shall result in the rejection of the bidder's bid and also lead to blacklisting of the organization.

- ix. Failing to execute the Contract within the prescribed period may result in termination of the Contract and award of the same to other agency/agencies at the risk and cost of the bidder.
- x. The person to sign the Contract shall be duly authorized.
- xi. Arbitration: In event of any dispute arising with regard to interpretation of the articles/terms of this contract, the matter shall be referred to sole Arbitrator, who shall be appointed by the Ministry of Health & Family Welfare, Government of India, New Delhi. The decision of the Arbitrator on the points referred to him/her shall be binding on both the parties to this contract, subject to the provisions of the Arbitration and Conciliation Act of 1996. Nothing in this clause shall entitle Vendor /IIPS to refuse to perform its obligation under this contract merely because reference to the arbitrator has been requested or made or a sole arbitrator has been appointed. No interest shall be awarded by the Arbitrator in respect of any money due under this contract till the date of award and for a period of 120 days thereafter. The place of Arbitration shall be **Mumbai**.
- xii. Good Manufacturing Practices (GMP), WHO-GMP, or equivalent international quality certification for the product applied for is essential. Preference will be given to WHO- GMP certificate.
- xiii. IIPS reserves the right to choose, accept or reject any or all request /offers, in full or part, reduce or increase the quantity, split the order, criteria of requirement at any stage without giving any notice or assigning any reason. The decision of the Director, IIPS in this regard shall be final.
- xiv. The quoted rate should include the transportation, delivery and taxes if any for anywhere in India, as advised by the IIPS Mumbai and be valid for one year from the last date of bid submission. The supplier is required to supply the selected items (consumables) in a staggered manner in 3- 4 lots in 1-1.5/2 years, tentatively scheduled as first lot for training in the last week of \*\*\*\*\*, second lot for the first phase in the month of \*\*\*\*\*, and third lot for second phase in the month of \*\*\*\*\*.
- xv. All bidders will have to submit at least one sample of each equipment and ten samples of each consumable applied, for verification and approval by the committee for evaluation of technical specifications.
- xvi. Failure to submit samples within the prescribed timeline will result in disqualification of the agency.
- xvii. Along with the samples, each vendor will have to submit a declaration that if finally selected, they will supply the same quality of the product (model with same technical specifications) for the entire procurement. Failure to do so will lead to disqualification of the agency supplying the allocated items.
- xviii. For all the supplies and equipment, those items which have been successfully used earlier in large scale surveys in India or outside will be given preference.
- xix. Cost of travel and stay of the officials for attending pre-bid meeting/technical or financial bid opening will be borne by the bidder.

## **6. Force Majeure and Termination**

### **6.1 Force Majeure:**

6.1.1 Where the performance by the bidders of their obligations under this Contract is delayed, hindered or prevented by an event or events beyond the reasonable control of the bidders and against which an experienced bidder could not reasonably have been expected to take precautions, the bidders shall promptly notify IIPS in writing, specifying the nature of the force majeure event and stating the anticipated delay in the performance of this Contract.

6.1.2 From the date of receipt of notice given in accordance with Clause 6.1.1, IIPS may, at its sole discretion, either suspend the Contract for up to a period of 6 months (“the Suspension Period”) or terminate the Contract forthwith.

If by the end of the Suspension Period the parties have not agreed on a further period of suspension or re-instatement of the Contract, the Contract shall terminate automatically.

### **6.2 Suspension or Termination without Default of the bidders**

6.2.1 IIPS may, at its sole discretion, suspend or terminate this Contract at any time by so notifying the bidder and giving the reason(s) for such suspension or termination.

6.2.2 Where this Contract has been suspended or terminated pursuant to Clause 6.2.1, the bidder shall:

- a) Take such steps as are necessary to terminate the provision of the Services, (including suspending or terminating any Sub-contracts) in a cost-effective, timely and orderly manner; and
- b) Provide to IIPS, in not more than 30 days after IIPS notifies the bidder of the suspension or termination of this Contract an account in writing, stating:
  - i. Costs, if any, due before the date of suspension or termination;
  - ii. Any costs to be expended after the date of suspension or termination, which the bidder necessarily incurred in the proper performance of this Contract and which it cannot reasonably be expected to avoid or recover.

Subject to IIPS approval, IIPS shall pay such amount to the bidder normally within 30 days after receipt from the bidder of an Invoice in respect of the amount due.

### **6.3 Termination for Default of the bidders**

6.3.1 IIPS may notify the bidder of the suspension or termination of this Contract where the services or any part of them are not provided to the satisfaction of IIPS giving the reasons for such dissatisfaction and, in the case of suspension, the action required by the bidder to remedy that dissatisfaction and the time within which it must be completed.

6.3.2 Where this Contract is suspended under Clause 6. 3.1 and the bidder subsequently fails to remedy the dissatisfaction, IIPS may terminate the Contract forthwith.

6.3.3 IIPS may, without prejudice to its other rights, including but not limited to the right to claim for costs and losses incurred, terminate this Contract forthwith where:

- a) The bidder or any member of the bidder’s personnel, either directly or through their servants or agents, breaches any of their obligations under this Contract; or

- b) The bidder or any member of the bidder's personnel has committed an offence under any of the prevailing laws applicable to the project; or
- c) The bidder is an individual or a partnership and at any time:
  - i. Becomes bankrupt; or
  - ii. Is the subject of a receiving order or administration order; or
  - iii. Makes any composition or arrangement with or for the benefit of the bidder's creditors; or
  - iv. Makes any conveyance or assignment for the benefit of the bidder's creditors; or
- d) The bidder is a company and:
  - i. An order is made or a resolution is passed for the winding up of the bidder; or
  - ii. A receiver or administrator is applied in respect of the whole or any part of the understanding of the bidder.
- e) The bidder is a partnership or a company and there is a Change in Control. "Change in Control" means that the person(s) (including corporate bodies) directly or indirectly in Control of the bidder at the time this Contract is entered into cease to be in Control. "Control" means the power of a person to secure that the affairs of the bidders are conducted in accordance with the wishes of that person.

6.3.4 Where the Contract is terminated in accordance with this Clause 6. 3.3, the bidder shall without prejudice to IIPS other remedies, take any steps necessary to terminate the provision of the Services in a timely and orderly manner but shall not be entitled to any further payment in relation to this Contract.

6.3.5 Where this Contract is terminated pursuant to Clause 6. 3.3 the bidder shall pay IIPS within 10 days of notification such amount, as IIPS shall have determined as the amount of any loss to IIPS resulting from such termination together with the amount or value of any gift, consideration or commission concerned.

Items		Units*
1	Stadiometer (Adult height measuring equipment)**	500
2	Infantometer**	500
3	Mother/Infant scale weighing scale model**	500
4	Glucometer with carrying case	(One complimentary glucometer per 1500 glucose strips as usually provided by the manufacturing company)
	Glucose strips	26,62,725
5	BP monitor (m/medium cuff)***	500
	Additional BP Cuff (Large)	500
	Additional BP Cuff (Small)	500
6	GPS receivers	500
7	Barcode Scanner	800
8	Combo carry case for Stadiometer, Infantometer and mother and child weighing scale	1,000
9	Backpack	800
	Batteries of weighing scale AA	52,632

10	Compatible and recommended AA batteries for BP monitor	35,088
	Batteries for GPS AA	11,696
11	Alcohol preps ( pack of 1 piece)	26,93,535
12	Gauze - sterile, disposable (2x2)	26,93,535
13	Lancet Normal	26,93,535
	Lancet Large	2,50,000
14	Compatible and recommended AAA batteries/ Lithium batteries for the glucometer	52,632
15	Absorbent sheet- 19 x13,3- ply	15,00,000
16	Gloves (latex powder free) small Pair	6,58,061
17	Gloves (latex powder free) Medium Pair	10,96,768
18	Gloves (latex powder free) Large Pair	4,38,707
19	Gloves (Latex free) Small Pair	1,50,000
20	Gloves (Latex free) Medium Pair	2,50,000
21	Gloves (Latex free) Large Pair	1,00,000
22	Salt test Kit (Potassium Iodide)	29,818
23	Salt test Kit (Potassium Iodate)	29,818
24	Biohazard bags (7-10 gal)	2,03,304
25	Adhesive Bandage Adult, sheet (3/4 in.x3in.)	26,62,725
26	Adhesive Bandage for a child, sheet (1/2in.x2 in.)	40,000
27	Cooler Igloo box/cold box/ice carrier, 16Qt	8,00
28	Desiccants 1.0g	12,97,064
29	Drying Racks	3,200
30	Filter paper cards for Adults	2,84,266
	Filter paper cards for Children	40,000
31	Humidity Indicator cards	12,97,064
32	Barcode Labels 1*3	9,72,798
33	Plastic Box 3.3L (should be compatible with the design drying rack selected)	1,500
34	Ziploc bag, small 4"x6"	3,24,266
35	Large Ziploc bag 12"x15"	41,000
36	Thermal Scanner	3,00
37	Pulse oximeter	3,00
38	Battery for Infrared Thermal scanner and Pulse oximeter	8,772

**\* The exact quantity of equipment and consumables may vary depending upon the working condition and results of calibration.**

**\*\* IIPS already has 481 Seca 213 Stadiometer, 497 Seca 417 Infantometer and 822 Seca 874 Mother/Infant scale weighing scale which were used in NFHS-5 and will also be used for NFHS-6 survey. To maintain uniformity in the recording of Height, Length and Weight measurements in a community setting, a similar equipment have to be procured. Therefore, IIPS need to procure additional 500 Stadiometer, Infantometer and Weighing scale with the same specification precision in measurement in field setting.**

**\*\*\* IIPS already has Omron BP monitor HEM-8712 (855) which were used in NFHS-5 and will be used for NFHS-6 survey also. To maintain uniformity in the recording of blood pressure level in a community setting, a similar equipment and compatible cuffs have to be procured. Therefore, IIPS need to procure additional (500) Omron BP monitor HEM-8712**

## LIST OF CAB EQUIPMENTS

S. No.	Supplies	Estimated qty.*	Pack specs	Generic specifications
1	Stadiometer (Adult height measuring equipment)**	500	unit equipment	Foldable height measuring device, should be easily carry-able in the field, calibrated with graduation of 1mm, should be able to measure 20-205 cm, light weight, must have a measurement reading window, the entire system should not weigh more than 4kg, product with demonstrated accuracy and earlier use in large scale surveys, particularly in earlier rounds of NFHS, with international comparability would be preferred. GMP WHO-GMP or equivalent International quality standard certification essential.
2	Infantometer**	500	unit equipment	Light weight foldable infantometer, fit for mobile use, measures 10-100cm with graduation of 1mm, documented accuracy and use in large scale survey particularly in earlier rounds of NFHS, equipment with demonstrated international comparability of results would be preferred (GMP/WHO-GMP or equivalent International quality standard certification essential.)
3	Mother/Infant scale weighing scale**	500	unit equipment	Battery operated electronic weighing scale with mother and child function, having clear digital display, with side mounted on/off switch, capacity of 200kg with graduation of at least 50 grams, adjustable levelling feet, automatic switch-off function, device weighing no more than 4 kg, of documented accuracy, use in large scale survey particularly in earlier rounds of NFHS with international comparability would be preferred, with guaranteed service support (GMP/WHO-GMP or equivalent International quality standard certification essential.)

4	Glucometer with carrying case and Glucose strips	1500 Glucose strips 26,62,725	unit equipment	<p>Battery operated glucometer with digital display, should have documented quality control and calibration method, having Indian or International quality certificate and proven use in large scale studies. The results should be equivalent to plasma levels of glucose, documented accuracy for international comparisons (GMP/WHO-GMP or equivalent International quality standard certification essential.)</p> <p>Compatible reagent containing strips for the glucometer, edge tip filled, year manufacturing should be 2022 and should be have shelf life to cover 24 months of field work (otherwise phase supply would be needed) (GMP/WHO-GMP or equivalent international quality standard certification essential).</p> <p><b>NOTE: One glucometer of given specifications (with free carry case) should be supplied complimentary on the purchase of every 1500 glucose strips.</b></p>
5	BP monitor (w/medium cuff)***	500	unit equipment	Automatic, battery operated BP instrument with demonstrated accuracy, preferred to have provision to indicate proper positioning of arm cuff, should have standard Indian or international certification. Provided with Medium Cuff - arm sizes 22–32 cm (GMP/WHO-GMP or equivalent International quality standard certification essential.)
6	Additional BPcuff (Large)	500	unit cuff	Large Cuff- arm sizes 32–42 cm, compatible with the BP monitor
7	Additional BPcuff (Small)	500	unit cuff	Small Cuff - arm sizes 17–22 cm, compatible with the BP monitor
8	GPS receivers	500	unit equipment	Weatherproof (dust and water), ability to store at least 500 waypoints, records altitude, records date and time, allows for various coordinate systems and datum's, uses power supply that is readily available in the survey location, satellite augmentation enabled, able to transfer waypoints to a computer in a tabular format

9	Barcode Scanner	800	unit equipment	USB connected, Quick contact scanning of bar codes up to 4 inches in length. Should be able to read low- quality or damaged bar codes as well as small or high-density bar codes. Should support most linear barcode symbologies. ISO 9001 certified
10	Combo carry case for Stadiometer, Infantometer and mother and child Weighing scale	1,000	unit carrycase	Tailor-made case to carry selected stadiometer, infantometer and weighing scale, waterproof material, guaranteed strength to last for 2 years of field work.
11	Backpack	800	Unit backpack	Tailor-made sturdy backpacks, with a strong shoulder strap of adjustable length, carrying capacity 10 kg, volume of at least 30 litres (1800 cubic inches), number of main pockets -2, side pockets-2, front smaller pockets-2 The exact design will be finalized after selection of rest of the Equipments and consumables.
12	Thermal Scanner	300 –	Unit Scanner	Non-Contact Infrared Thermometer Degree Celsius & Degree Fahrenheit Interchangeable, Celsius & Fahrenheit modes, Preferably (89.6°F) or Lower 32°C, Low battery indicator, Highest measurable temperature for body mode preferably 42°C, (107.6°F) or Higher, Trigger/Button for operation, Auto power off when not in use, sound indication when the thermometer is ready to take or show the temperature, Silent mode, Audible alarm for fever, Different backlight colors to differentiate between the fever ranges, Waterproof lens easy to clean and disinfect, Limit value for the adjustable alarm as programmable.
13	Pulse Oximeter	300	Unit Oximeter	Light weight, sturdy, should allow disinfection with 70% alcohol Battery operated, Auto-power off when not in use Should work during motion and very low perfusion conditions Oxygen Saturation Range 0-100%, Display of SPO2 and pulse rate, CE or equivalent quality certificate.

\*The exact quantity of equipment may vary depending upon actual use and requirement in the field and will be subject to decision of IIPS.

\*\* IIPS already has 481 Seca 213 Stadiometer, 497 Seca 417 Infantometer and 822 Seca 874 Mother/Infant scale weighing scale which were used in NFHS-5 and will also be used for NFHS-6 survey. To maintain uniformity in the recording of Height, Length and Weight measurements in a community setting, a similar equipment have to be procured. Therefore, IIPS need to procure additional 500 Stadiometer, Infantometer and Weighing scale with the same specification precision in measurement in field setting.

\*\*\* IIPS already has Omron BP monitor HEM-8712 (855) which were used in NFHS-5 and will be used for NFHS-6 survey also. To maintain uniformity in the recording of blood pressure level in a community setting, a similar equipment and compatible cuffs have to be procured. Therefore, IIPS need to procure additional (500) Omron BP monitor HEM-8712

## LIST OF CONSUMABLES

The consumables should have sufficient shelf-life so as to cover the entire time period of field work during NFHS-6 (up to July 2025 or after two years of purchase, whichever is later). In case of any product having limited shelf life, the supplier has to phase the manufacturing and supplies so that products with valid expiry dates are made available throughout the survey, otherwise the supplier should replace the expired supplies with new supply on their own cost. The total FOB/CIF values as the case may be, valid until the delivery of equipment/goods at IIPS. All equipment and consumables should be delivered to IIPS, Mumbai and respective states field agencies offices pricing should be done by taking into consideration transportation costs.

S. No.	Supplies	Estimated qty*.	Generic specifications
1	Compatible and recommended AA batteries for GPS	11,696	Leak-proof, with proven long shelf life, alkaline AA (R6) batteries (1.5 Volts), with wider storage temperature and operating temperature range
2	Compatible and recommended AA batteries for Weighing scales	52,632	Leak-proof, with proven long shelf life, alkaline AA (R6) batteries (1.5 volts), with wider storage temperature and operating temperature range
3	Alcohol preps (pack of 1 piece)	26,93,535	Cloth towelettes soaked in 70% isopropyl alcohol, individual packets containing two such tow elettes (GMP or WHO-GMP certificate essential)
4	Gauze - sterile, disposable (2x2)	26,93,535	Sterilized cotton gauze pieces, packed in pairs, packet should be of paper and canbe torn easily with hands
5	Lancet Normal	26,93,535	23gauge, 1.8 mm Depth, Automatic retracting of lancet into device, single use, should allow adjustment of pressure and timing of activation, should allow for easier sampling, less pain, better visibility of the desired puncture site.
6	Lancet (Large)	2,50,000	21gauge, 2 mm Depth, Automatic retracting of lancet into device, single use, should allow adjustment of pressure and timing of activation, should allow for easier sampling, less pain, better visibility of the desired puncture site.



7	Compatible and recommended AAA batteries/ Lithium batteries for the glucometer,	52,632	Leak-proof, long shelf life, alkaline AAA (R6) batteries (1.5 Volts) OR Lithium batteries as per the recommendations of glucometer
8	Compatible and recommended AAA batteries/ Lithium batteries for pulse oximeter and thermal scanner	8,772	Leak-proof, long shelf life, alkaline AAA (R6) batteries (1.5 Volts) as per the recommendations of manufacturer, pulse oximeter and thermal scanner
9	Absorbent sheets - 19"x13", 3-Ply	15,00,000	Rectangular absorbent sheets having absorbent paper on one side and waterproof polyethylene (or similar material) on the other side. Should be easily foldable, dimensions - 19 inches X 13 Inches (small variation in size permitted), thickness of sheet around 3 ply (GMP or WHO-GMP certificate essential)
10	Gloves (latex, powder free) - SMALL	6,58,061 Pair	Latex gloves of standard quality (GMP/ WHO GMP certificate)

11	Gloves (latex, powder free) - MEDIUM	1096768 Pair	Latex gloves of standard quality (GMP/ WHO GMP certificate)
12	Gloves (latex, powder free) - LARGE	438707 Pair	Latex gloves of standard quality (GMP/ WHO GMP certificate)
13	Gloves (LATEX FREE) Small	1,50,000 Pair	Latex FREE gloves of standard quality (GMP/ WHO GMP certificate)
14	Gloves (LATEX FREE) MEDIUM	2,50,000 Pair	Latex FREE gloves of standard quality (GMP/ WHO GMP certificate)
15	Gloves (LATEX FREE) LARGE	1,00,000 Pair	Latex FREE gloves of standard quality (GMP/ WHO GMP certificate)
16	Compatible and recommended AA batteries for BP monitor	35,088	Leak-proof, with proven long shelf life, alkaline AA (R6) batteries ( 1.5 Volts), with wider storage temperature and operating temperature range, as per recommendations from BP instrument
17	Salt test kits (Potassium Iodate)	29,818	SALT-IODATE testing kits, 100 tests per kit
18	Salt test kits (Potassium Iodide)	29,818	SALT-IODIDE testing kits, 100 tests per kit
19	Biohazard bags (7-10 gal)	3,03,040	Polyethylene bags, red colored, printed with BIOHAZARD LOGO, thickness of at least 1.1 mil, capacity 7-10 gallons
20	Adhesive bandage adult, Sheer (3/4 in. x 3 in.)	26,62,725	Medicated adhesive plasters individually wrapped (for adults), used for dressing skin pierces and smaller wounds like needle pricks on fingers, 3/4in. X 3in. (GMP or WHO-GMP certificate essential)
21	Adhesive bandage for child, Sheer (1/2 in. x 2 in.)	40,000	Medicated adhesive plasters, individually wrapped (for children), used for dressing skin pierces and smaller wounds like needle pricks on fingers, 1/2in. X 2in. (GMP or WHO-GMP certificate essential)

\*The exact quantity of consumables may vary depending upon actual use and requirement in the field and will be subject to decision of IIPS.

## Equipment's and Consumables for DBS

S. No.	Supplies	Estimated qty*.	Generic specifications
1	Cooler - Igloo box/cold box/ice carrier, 16 Qt	800	Insulated igloo box (cool box) with airtight lid and handle for carrying, dimensions- approximately 14inchesX 10 inchesX10 inches
2	Desiccants 1.0 g	12,97,064	Small bags of silica gel desiccants of 1gm each, changes color on exposure to moisture (indicating desiccants), (GMP/WHO-GMP or equivalent International quality standard certification essential.) Should be supplied in pack of 100 pieces each. These packs should be supplied in overall sturdy packing.
3	Drying Racks	3,200	Foldable drying racks that can be fitted into a box of dimensions 8 inches X 12 inches X 6 inches. Card drying racks are designed to accommodate multiple collection forms at one time, safely and properly air- drying the blood specimens suspended in a horizontal position. The back of the drying rack has to be able to be affixed with Velcro to the 3.3 L plastic box mentioned below. (GMP/WHO- GMP or equivalent International Quality standard certification essential.)
4	Filter paper cards for Adults	2,84,266	Filter paper cards for dried blood spot preparation. Manufactured from 100% pure cotton linters with no wet-strength additives. Each card should have a sample collection area of five 1.3cm (1/2") pre-printed circles, with each circle holding 75– 80µ L of sample. Documented uniform distribution of the blood sample on filter paper card (GMP/WHO-GMP or equivalent International quality standard certification essential.) Product which has been successfully used for other DBS based studies in India and internationally will be preferred.
5	Filter paper cards for Children	40,000	Filter paper cards for dried blood spot preparation. Manufactured from 100% pure cotton linters with no wet-strength additives. Each card should have a sample collection area of two 1.3cm (1/2") pre-printed circles, with each circle holding 75– 80µ L of sample. Documented uniform distribution of the blood sample on filter paper card (GMP/WHO-GMP or equivalent International quality standard certification essential.) Product which has been successfully used for other DBS based studies in India and internationally will be preferred.

6	Humidity indicator cards	12,97,064	Humidity indicator cards to indicate 3 levels of exposure to humidity (30, 40 and 50%) through colour changing circles (to be used for humidity monitoring in closed packaging). Conforming to international/national standards with proven history of use. Should be supplied in pack of 25 pieces each. These packs should be supplied in overall sturdy packing.
7	Cryogenic Barcode labels 1x3	9,72,798	Alphanumeric bar code, random numbers in triplicate, non-bearable material, should retain adhere at minus 20 <sup>0</sup> C, cryogenic. <b>The size of barcode will be 38 mm X 15 mm (1x3 labels) and the barcode should be in rows.</b> The barcode will be provided by IIPS which should be printed on the barcode labels.
8	Plastic box, 3.3L (should be compatible with the design drying rack selected)	1500	Box which has internal dimension of atleast 10 inches X 5.5 inches X 4.5 inches, made of first grade transparent plastic, having completely removable lid on top (these boxes will be used for keeping filter paper cards in the drying racks)
9	Ziploc bag, 4"x6" small	3,24,266	Reclosable (ziploc) bags, transparent, dimensions 4 inches X 6 inches
10	Ziploc bag, 12"x15" large	41,000	Reclosable (ziploc) bags, transparent, dimensions 12 inches X 15 inches

\*The exact quantity of equipment and consumables for DBS may vary depending upon actual use and requirement in the field and will be subject to decision of IIPS

#### General terms and conditions:

- IIPS reserves the right to choose, accept or reject, cancel any or all of the item in full or part, reduce or increase the quantity, spilt the order, criteria of requirement at any stage without giving any notice or assigning any reason. The decision of the Director, IIPS in this regard shall be final.
- All equipment and consumables should be delivered approximately within 60 days of issuing the purchase order, in a staggered manner. The purchase order for a particular equipment/consumable will provide the exact details of delivery period and required packaging format for the same.
- The sample submission date will be communicated after opening of pre-qualification bid. (Usually it is within one week of last day of submission of bid). Please keep visiting our website [www.iipsindia.ac.in/](http://www.iipsindia.ac.in/) / [www.rchiips.org/nfhs](http://www.rchiips.org/nfhs) for more info.
- IIPS does not have any GST exemption certificate.
- For price bid, each item should be quoted for single unit inclusive of GST.