

**SAMAGRA SHIKSHA, MANIPUR
STATE IMPLEMENTATION SOCIETY,
MANIPUR**

Bid Document for
Supply of

Science Kits, Maths Kits and Equipments for
Elementary & Secondary Schools

for the Financial Year 2022-23

Price Rs. 10,000/-

**SAMAGRA SHIKSHA
STATE IMPLEMENTATION SOCIETY, MANIPUR**

Bid Document For
Supply of Science Kits, Maths Kits and Equipments for Elementary & Secondary
Schools

Document Issue Details

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Chapter-1
Introduction & General definitions
Introduction

The Samagra Shiksha, Manipur, represented by the State Project Director, Samagra Shiksha, Manipur (hereinafter referred to as "State Project Director"), wishes to receive bids from the registered Supplier / manufactures/ Distributors for Supply of **18 Lab. Equipments and 427 Science Kits & Maths Kits for Secondary & Sr. Secondary Schools and 514 Maths & Science Kits for Elementary Schools** of prescribed specifications in Manipur state. The quantity & specifications to be supplied by the successful bidders are given in chapter- IV of this bid document.

1. DEFINITIONS

In the Contract (as defined below) the words and expressions defined below shall have the meanings assigned to them, except where the context requires otherwise:

- I. **"Annexure to Bid"** means the complete appendices comprised in the bid, wherever the term "Annexure to Bid" is used, this shall mean "Annexure to Technical Proposal" and/or "Annexure to financial Proposal", as may be appropriate.
- II. **"Arbitrator"** means the person or persons named as such in the Contract, or other person or persons appointed from time to time by the Govt. of Manipur, under Arbitration Act 1996.
- III. **"Science Kits, Maths Kits and Equipments for Elementary & Secondary Schools"** means Science Kits, Maths Kits and Equipments for Elementary & Secondary Schools & its components of given specifications.
- IV. **"Bid"** means the offer of the bidder to the State Project Director for the supplies.
- V. **"Bidder/ supplier"** means an individual, a firm, an association of persons or body or individuals or firms or a company incorporated under the Indian law that undertakes to supply & installation of Solar Panel.
- VI. **"Bidders Proposal"** means the preliminary proposal submitted with the bid.
- VII. **"SPO"** means State Project Office, Babupara of Samagra Shiksha, Manipur.
- VIII. **"Contract"** means the Conditions of Contract, the State Project Director's Requirements, the Bid, the suppliers Proposal, the Schedules, the Letter of Acceptance, the Contract Agreement or Contract Agreements and such further documents as may be expressly incorporated in the Letter of Acceptance or Contract Agreement.
- IX. **"Contact Agreement"** means the contract agreement (if any).

- X. **“Contract Price”** means the sum stated in the Letter of Acceptance as payable to the supplier for the supply & installation of solar panel of given specification in accordance with the provisions of the Contract.
- XI. **“Contract Period”** means the period from the date of supply order to the date of complete supply & installation of the said solar panel as per specifications.
- XII. **“Day”** means a calendar day.
- XIII. **“State Project Director”** means State Project Director, Samagra Shiksha, Manipur.
- XIV. **“State Project Director’s Representative”** means the person or persons appointed by the State Project Director to act as State Project Director’s Representative for the purposes of the Contract or other person appointed from time to time by the State Project Director and notified as such to the supplier.
- XV. **“SSA”** means Samagra Shiksha, Manipur.
- XVI. **“EMD”** means Earnest Money Deposit
- XVII. **“GOM/Government”** means Government of Manipur.
- XVIII. **“Letter of Acceptance”** means the formal acceptance of the bid by the State Project Director.
- XIX. **“Local Currency”** means the currency of India.
- XXI. **“Purchaser”** means State Project Director, Samagra Shiksha, Manipur or its authorized representatives.
- XX. **“Scope of Work”** means the description of the scope, standard, and program or work, as included in the Contract, and any alterations and modifications thereto in accordance with the Contract.
- XXI. **“S.D.”** means Security Deposit.
- XXII. **“Supplier”** means the person whose bid has been accepted by the SPD and the legal successors in title to such person, but not (except with the consent of the State Project Director) any assignee of such person.
- XXIII. **“Supplier’s Representative”** means the person (if any) named as such in the Contract or other person appointed from time to time by the supplier & notified as such to the State Project Director.
- XXIV. **“TEC”** means Tender Evaluation Committee or Purchase Committee.
- XXV. **“Variation”** means any alteration and/or modification to the State Project Director’s Requirements, which is instructed by the State Project Director or his Representative.
- XXVI. **“Year”** means 365 days.

2. Interpretation

Words indicating persons or parties shall include firms and corporations and any organization having legal capacity. Words indicating the singular also include the plural and vice versa where the context requires. Words indicating one gender also include other gender.

3. Contract Agreement

Either party shall, if requested by the other party, execute a Contract Agreement or Contract Agreements, as such modifications as may be necessary to record the Contract. The costs of stamp duties and similar charges imposed by law shall be borne by the bidder/ supplier.

The successful bidder will be required to enter into separate agreements, or any number of agreements as decided by the State Project Director.

4. Documents at Site

The supplier shall keep, at his registered office, one complete set of the documents forming the contract, the documents, variations, other communications given or issued from time to time and all other relevant records. The State Project Director, the State Project Director's representative shall have the right to use such documents at all reasonable times.

5. Communications

Wherever provision is made for the giving or issuing of any notice, instruction, consent, approval, certificate or determination by any person, unless otherwise specified, such communication shall be in writing. Wherever provision is made for a communication to be "written" or "in writing", this means any hand-written, type-written or printed communication, including the agreed system of electronic transmission.

All certificates, notices or written orders to be given to the supplier, by the State Project Director or his representative, and all notices to be given to the supplier or to Representative by the supplier, shall either be delivered by hand against written acknowledgement of receipt, or to be sent by airmail or mail or part of the agreed systems of electronic transmission. The addresses for the receipt of such communications shall be as stated in the bid.

6. Compliance with Statutes, Regulations and Law

The Supplier shall, in all matters arising in the performance of the contract, comply with, give all notices under, and pay all fees required by, the provisions of any national statute, ordinance or other law, or any regulation of any legally constituted public authority having jurisdiction over the system. The supplier shall obtain all permits, licenses or approvals required for any part of the contract, in reasonable time taking account of the times for installation of the solar panel at school and for completion of the contract. The supplier shall comply with the laws of the country.

Chapter-2
State Project Director, Samagra Shiksha, Manipur

NO. 2-1/SPD/SS-S/2022/04

Date: 16/12/2022

**THE NOTICE FOR INVITING TENDERS FOR SUPPLY & INSTALLATION OF
SUPPLY OF SCIENCE KITS, MATHS KITS AND EQUIPMENTS FOR
ELEMENTARY & SECONDARY SCHOOLS UNDER SAMAGRA SHIKSHA
SECONDARY, MANIPUR.**

Samagra Shiksha, Manipur has decided to install the **18 Lab. Equipments and 427 Science Kits & Maths Kits for Secondary & Sr. Secondary Schools and 514 Maths & Science Kits for Elementary Schools**. These are to be supplied & installed as per the prescribed specification and as per delivery/completion schedule order.

The State Project Director, State Implementation Society, Samagra Shiksha , Manipur invites bid in two cover system (Technical bid & Financial bid) from the registered Firms /Supplier/contractor on behalf of the Chairman, Executive Committee, Samagra Shiksha , Manipur

The schedule of bid activities is as under:

Sl. No.	Particulars	Date	Time
01	Commencement of sale of bid document	16/12/2022	11.00 A.M.
02	Closure for sale and submission of complete document.	6/1/2023	2.00 P.M
03	Opening of technical bids	10/1/2023	1:00 P.M.
04	Opening of financial bids	10/1/2023	04.00 P.M.

All the bidding activities shall take place in the Office of the State Project Director, Samagra Shiksha, Manipur.

The bid document may be obtained from the Office of the State Implementation Society, Samagra Shiksha, Manipur on submission of Demand Draft/ Bankers Cheque/Cash of Rs. 10,000/- (Rupees ten thousand) only in favour of "State Project Director, Samagra Shiksha, Manipur" payable at Imphal. The bid document may be downloaded www.manipureducation.gov.in. Such bidders have to deposit the price of the bid amounting to Rs. 10,000/- (Rupees ten thousand) only to the State Project Director, Samagra Shiksha, Manipur, before submission of the bid otherwise their bids would not be considered.

Fully sealed bids, with an Earnest Money Deposit **Rs. 2,74,768/- (Rupees two lakhs seventy four thousand seven hundred and sixty eight)** only should reach to the State Project Director as mentioned above at S.N. 3 of schedule of bid activities.

Sd/-
State Project Director
Samagra Shiksha,
State Implementation Society, Manipur

Chapter-3

ELIGIBILITY CRITERIA

Eligibility Criteria:

1. The Bidder must be an Authorised Dealer/ Supplier/ Manufacturer/contractor registered with competent central or state government authority and capable of supply & commissioning of solar panel at elementary schools under Samagra Shiksha, Manipur. The bidder, anywhere in India, declared blacklisted or debarred by any competent authority, shall not be allowed to participate in bid process.
2. The bidder should have annual minimum turnover of at least 60% of contract value, during one of the last three financial years i.e 2019-20, 2020-21 & 2021-22.
3. The bidder should have positive net worth as on 31st March, 2022.
4. Any change in the constitution e.g. firm name/ supplier name/ dealer name, etc. shall be notified forthwith by the supplier in writing to State Project Director and such change shall not relieve any former member of the company, etc. from any liability under the contract.
5. The technical bids will be evaluated by TEC/Purchase Committee on the basis of eligibility criteria given in this chapter. The bidders who fulfill **all the criteria** shall be qualified technically and financial bids of only technically qualified firms will be opened. The technical scrutiny shall be done on the basis of documents/ work order/client's certificate etc., submitted by the bidder with the bid document.
6. The committee will assessed the technical proposal on the criteria prescribed under bid document as detail below:

SL.NO	CRITERION	POINTS ALLOTTED
1	Turnover of at least 60% of contract value during the last 3 (three) Financial Years	25
2	Experience in supply & installation of similar items in the state in the previous years	10
3	Positive Net worth as on 31 st March, 2022	5
4	Preferential to local firm.	10
Total		50

7. Agency/Firm has to secure a minimum of 85% of the total allotted points in order to qualify its technical bid.

8. The Financial Bid will remain unopened, at the time of opening of technical bids and will be held in the custody of State Project Director until the time of bid opening of the price proposals. Financial bids of those bidders, who qualify in technical bid, will be opened in presence of the representatives of the technically qualified firms. The demand draft for EMD shall be attached with Technical bid i.e. in Envelop "A" failing which bid shall be rejected.
9. Right to reject any or all Bids without assigning any reason thereof is reserved with the State Project Director.
10. Selection of the supplier: The weightage of the Technical and Financial bid will be 50% each for selection of the supplier.

(Attested copies of documents proving the above criteria should be submitted in Envelop No. A. Technical Bid without the required Earnest Money shall not be entertained and financial bid of such Bidders shall not be opened.)

Chapter-4 Scope of Work

Samagra Shiksha, Manipur, represented by the State Project Director, wishes to receive bids from the registered Supplier for supply of **18 Lab. Equipments and 427 Science Kits & Maths Kits for Secondary & Sr. Secondary Schools and 514 Maths & Science Kits for Elementary Schools**. Detail specifications are given below:

1. Specifications for 1 Science Kits for Secondary & Elementary Schools (Total 427 Science Kits for Secondary Schools & 514 Science Kits for Elementary Schools)

	Science Kits		Secondary	Elementary
S.No	Item Name	Specification	Quantity of 1 kits	Quantity of 1 kits
1	Spring balance	A.B.S, open type, capacity 250 g wt graduation in steps of 10 g wt on one side on front face and Newton's on the other side on front face. As per sample.	2	2
2	Magnetic Compass	Metal case, polystyrene transparent top, magnetized needle with north marked red and south marked blue, dia 50mm x 8mm high.	1	1
3	Set of three resistors 5 Ohm, 10 Ohm and 15 Ohm	15 mm x 15 mm x 125 mm with nichrome wire resistance, embedded in plastic case with terminal. Three combine set all connected in series, it will work as a rheostat.	3	3
4	Measuring Cylinder	Plastic, transparent with built in base, 100 mL graduation (min 1 mL), marking with 10 to 100mL.	1	1
5	Bar Magnet	Size 75 x 12 x 08 mm. red colour N and S pole mentioned. Alnico	2	2
6	Ring magnet	Outer diameter 18 mm and inner dia 7mm and thickness 3mm. Ferrite	1	1
7	Disk Magnet	Diameter 35 mm and 8 mm thick. Ferrite	1	1
8	U-shaped magnet	Arms length 50 mm, , red colour N and S poles to be marked. 10mm x 08mm rod. Alnico	1	1
9	Aluminium pipe	Thin pipe 0.5mm & length 100mm. x diameter 6mm.	1	1
10	Slinky	Steel Wire Spiral roll, outer dia 52 mm and close size 68-70 mm. 0.5 mm thickness write 0.2 mm.	1	1
11	One way Key	One way plug key (Brass), base 78 mm x 54mm.	1	1
12	Laboratory Stand Assembly 1) M.S. rod 2) Boss head 3) Base 4) Clamp	M.S. rod dia 9.2 mm x 380 mm long, chrome plated. with M.S. base thickness 2mm and black powder coating. C.I. Boss head black painted as per standard. with clamp 235mm long. As per sample	M.S. Rod 01 Boss head 01 Base 01 Clamp	M.S. Rod 01 Boss head 01 Base 01 Clamp
13	Connecting Wire Crocodile clips	Soft electric wire 400 mm. length both end fitted with Crocodile clips. three red and three black.	3	3
14	Connecting Wire banana clips	Soft electric wire 400 mm. length both end fitted with banana clips. three red and three black.	3	3
15	Metal Cylindrical with Hook	Solid cylindrical M.S. and aluminium dia 20mm x 50mm length with hook.	01 Alu. 01 M.S.	01 Alu. 01 M.S.
16	Pendulum Ball with hook	Steel ball dia 20mm. & another ball 35mm attached with hook for pendulum.	1	1
17	Split Rubber cork	07 No. size	1	1
18	Thread	Fine quality Cotton thread thick approx 01mm.	1	1

19	Concave Mirror	Dia 50mm. focal length 10 centimeter & 15 cm.	1	1
20	Convex Mirror	Dia 50mm. focal length 10 centimeter & 15 cm.	1	1
21	Lens double convex	Dia 50mm. focal length 10 centimeter & 15 cm.	1	1
22	Lens double concave	Dia 50mm. focal length 10 centimeter & 15 cm.	1	1
23	Prism	Equilateral glass prism 25 x 25 mm.	1	1
24	Glass Slab	Glass slab 75 x 50 x 12 mm height.	1	1
25	Plano concave	Spherical Plano Lenses made from Perspex sheet of size 50 mm x 20 mm x 12 mm.	2	2
26	Double Convex Lens	Spherical Double convex lenses. Each made from Perspex sheet of size 50 mm x 20 mm x 12 mm. and matching with Plano concave.	1	1
27	Half Cylindrical Lens	Perspex rod of size dia 25 mm x 15 mm height.	1	1
28	Cell Holder	Cell holder for 4 'D' type cells box outer size 135 x 75 x 35 mm. height with cover.	1	1
29	Copper Strip	Strip size 60 x 10 x 0.5mm.	1	1
30	Enameled copper wire	24 SWG. Enameled copper wire. 1 meter length approx.	1	1
31	Nichrome wire	24 SWG. Nichrome wire. . 1 meter length approx.	1	1
32	Nichrome wires	Three resistance wires of Nichrome of different diameters. 1. dia 5.5mm (24SWG) 2. dia 4.3mm (27SWG) 3. dia 3.8mm (28SWG)	1	1
33	Constantan Wire	27 SWG. ,1 meter role.	1	1
34	Multicore flexible insulated electric copper wire	2 meter length, wire dia 0.19 mm (36 SWG) Total No. of cores- 21	2	2
35	250g weight with hook	One 50g disc attached with dia 3mm x 90mm. hook and author number of four 50g weight fitted with slots one by one total weight will be 5 x 50g = 250g.	1	1
36	Ray steak Box	U shape mild sheet of 24 SWG. Size of the front face: 85 mm x 70 mm to 75 mm with M shape window of size of 30 mm x 30 mm starting from centre bottom side of front face. Size of two side faces: 40 mm x 70 mm. spot welded to the front face. Size of the M shape window cover : 30 mm x 40 mm. Front face, projected to the height of 15 mm having 3 slits of 0.75 mm thickness starting from bottom. Height of slits 30 mm, second slits at the centre. Distance between the slits 5 mm. Screw type bulb holder spot welded from inside Complete apparatus painted black. Supplied along with single slit strip. As per sample.	1	1
37	Protector (Half)	Transparent plastic dia 90 mm, thickness 2 mm. Double angle marking 0-180°	2	2
38	Plane mirror strips	Glass strip 150mm. x 30mm x 2mm. thick.	2	2
39	Beaker 50ml	50 mL beaker borosilicate glass with 10 mL graduation.	01 each	01 each
40	stirrer	Glass stirrer rod dia 4mm x 106mm length	1	1
41	Multimeter With Battery	Pocket size, digital, high impedance. Function:- DCV, ACV Resistor(ohm) Diode, Buzzer, transistor(HFE), Temperature, Square wave output, Battery test. As per sample.	2	2
42	Laboratory Thermometer	Glass, alcohol filled, -10° C to 110° C, graduation 1° C with card board/plastic cover and cotton at both ends.	1	1
43	(i) Perspex lens holder	(i) Dia 35mm. Perspex rod over all hight 55mm with with 2.5 mm x 10mm elliptic depth slot & 4mm wide x 6mm elliptical depth slot. Bottom end slot 5mm x 27.5 mm for sliding on wooden scale.	1	1
	(ii) Screen holder	(iii) Perspex piece over all height 21.5mm approx round bottom 47.5 mm slit 27.5 x 5mm depth width 25.5 mm top slit straight 8mm deep & 3mm wide.	1	1
	(iii) Candle Holder	(iii) Perspex piece over all height 21.5mm approx round bottom 47.5 mm slit 27.5 x 5mm depth width 25.5 mm top have 12mmdia hole x 8mm depth	1	1
44	Wooden scale / Optical Bench	400 + 400mm x 27mm. x 6mm. thick wooden scale. Marking in top centimeter and millimeter. in two parts to be joint through two pins	1	1

45	Screen	White plastic glazed sheet 100mm. x 100mm. x 2.5mm.	1	1
46	Candle	Small size 80mm high with out base dia 12mm.	1	1
47	Thumb pins	Drawing pins standard item. 10mm with 15 dia head.	1 packet 30 Nos.	1 packet 30 Nos.
48	Sand paper	Size A4 or 275 x 225mm Grain 100 to 120.	1	1
49	Pulley with Frame & Rod	Plastic pulley dia 50mm attached with frame 75mm x 17mm x 24.5SWG M.S sheet and attached "L" type M.S rod dia 6mm x 115mm length and 23mm after 90°. pulley fixed with aluminium axle, friction free moving.	1	1
50	Plastic Box big	Polypropylene transparent milky White box, Overall Size 225mm x 140mm x 75mm height with cover.	2	2
51	Plastic Box small	Polypropylene transparent milky White box, Overall Size 125mm x 75mm x 45mm. height with cover. Use for putting glass item.	1	1
52	Stopclock Mechanical	Main scale 0 to 60 s (least count one s), small scale 0 to 60 minute (least count one minute), appropriate size to store in the kit box. As per sample.	1	1
53	Kit Box	12 mm. thick wooden ply outer box size 435mm. x 265mm x 180mm. height box open with two flap top open back side and front flap rest on the base. Inside of the box in the middle sliding wooden tray and back side pockets for putting the kit items. Locking system and handle in the top painted with teak wood colour. As per sample.	1	1

2. Specifications for 1 Maths kits for Secondary & Elementary Schools (Total 427 Maths kits for Secondary schools & 514 Maths kits for Elementary Schools)

S.No.	Name of Items	SPECIFICATION	Secondary	Elementary
1	Compass	2 inch	2	2
2	Plastic Strip (A Type)	Transparent Perspex 264 x 20x 2.7 mm to 3 mm having 3slots of width 5 mm. at adistance of 0 to 30 mm. next 50 to200 mm. and again 220to 250mm. numbering on 0 to25Cm.with mm. both side, allmarking and numbering withcenter line in black colours.	2	2
			2	2
			2	2
			2	2
3	Plastic Strip (B Type)	Transparent Perspex 264 x 20 x 2.7 mm to 3 mm having 3 slots of width 5 mm. at a distance of 0 to 0.3 mm. next to 0.5 to 2.0 and again 2.2 to 2.5 all marking and numbering with center line in black colours.	2	2
4	Full Protractor (360o)	Transparent plastic dia 120 mm, thickness 2 mm. Double angle marking 0-3600 with centre hole 4 mm on centre point.	2	2
5	Half Protractor (180o)	Transparent plastic dia 90 mm, thickness 2 mm. Double angle marking 0-1800 with centre hole 4 mm on base line.	2	1
6	Geo-board (rectangular)	ABS material, 190 x 190 x 10 mm. One face has grids of 10 mm square with 1 mm dia holes at all corners of squares. Boundary corners of grid squares are without holes.	2	1
7	Plastic Box	80 mm x 70 mm x 35 mm	2	1
8	Connectors for Strips	Stainless steel, length 25 mm. and dia 5 mm. with rubber sleeve.	2	1
9	Connectors (T-Type)	Flat rivet type 20mm. height and dia 4mm. with rubber sleeve.	2	1
10	Set Square	As per standard medium size.	1 set	1 set
11	Rotating Needle	Steel road dia 3mm. x 200mm.length with one side 'L' band dia 5mm. rivet attached with road.	2	1
12	Scale	400_400mmx27mmx6mm Thick plastic scale marking in top Centimeter& milklimeterin 2 parts	1 set	1 set

3. Specifications for 1 Chemistry Lab. equipment and 1 Biology Lab. equipment (Total Hr. Sec. School to be supplied for Chemistry Lab. equipment-1(one) & Biology Lab. equipment-3 (three))

(Chemistry)			
S.No	Item Name	Specification	Quantity of 1 kits
1	Micro Test Tube	Borosilicate glass, diameter 10 x 45 mm height with rim	16
2	Test Tube Holder	Length 200 mm, to hold the test tubes upto 10 mm dia.	1
3	Test Tube Stand	Perspex sheet size, 100mm x 27mm x 12 mm height with four blind holes to hold micro test tubes dia10mm.	4
4	Dropper with Rubber Bulb	Rubber bulb with 100 mm x dia 6 mm. Glass tube, overall dropper size 125 mm.As per sample	2
5	Glass Rod and Stirring	Glass rod Dia 4 mm x 100 mm in length	1

	Rod		
6	Spatula	Overall size 104mm spoon size 9 x 7 mm. Stainless steel	1
7	Beaker (10 mL)	Borosilicate 10 mL with rim. dia 25mm x 34mm height.	4
8	Funnel	Borosilicate top dia.40 mm.	1
9	Dry Cell Holder	Cell holder for 4 'D' type cells. Box outer size 135 mm x 75 mm x 35 mm. height with cover.	1
10	Torch Bulb with Holder	Screw type bulb holder with 3 V bulb. As per sample	1
11	Beaker (50 mL)	Borosilicate glass, capacity 50 mL with 10mL graduation.	1
12	Measuring Cylinder (10 mL)	Height density polyethylene (HDPE) capacity 10 mL As per sample	1
13	W- Tube	Borosilicate glass, 2 mm thick x 8 mm dia having length of arm 7075 mm with wide mouth in one arm. As per sample	6
14	Tripod	Aluminium top 63 mm dia x 15 mm thick 3 blind hole dia 10.5 x 10 mm depth to hold test tube. Attach with three legs 4 mm dia x 165mm allover length180mm. As per sample	1
15	Kerosene Burner	0.4 mm thick plated tin sheet container dia 75 x 55 mm height fitted with container lid locked with four aluminium wick holder dia 6.3 x 42 mm height. Cover with ebonite insulator and aluminium spacer to lock the container lid and chimney holder inside dia 45 mm x 5 mm height. MS sheet plated with centre 20 mm dia seam hole attached with inner chimney dia 20 mm inside x 56 mm height. Fitted with 0.4 mm thick plated cap. Outer chimney dia 45 mm x 56 mm height MS sheet 0.63 mm thick plated fitted with chimney holder. Both chimney at crossing points holes dia 1.5 distance 6.5 x 5.6 mm. Overall Burner. As per sample	1
16	Laboratory Stand	MS rod dia 10 mm x 375 mm long with base attach with G-clamp and Boss Head. As per sample	01 each
17	Litmus Paper	Red and Blue colours.	1 booklet each
18	Watch Glass	Soda glass, dia 50 mm x 2 mm thick.	1
19	China Dish	Bowl, outer diameter 70 mm / 75mm.	1
20	Laboratory Stand Boss head M.S. Rod clamp Base Plate G-clamp	Size 75 mm x 12 mm x 08 mm, red colour N and S pole mentioned Alnico.	2
21	Thermometer (Laboratory)	Glass, alcohol filled, -10° C to 110° C, graduation 1° C with card board/plastic cover and cotton at both ends.	1
22	pH Paper	pH 1-11, paper box containing, 10 booklets	10
23	Metals (Zn, Cu, Fe,	Strips , dimension 80 mm x 5 mm, x1mm. As per sample	5
24	Emery Paper and Sand paper	A4 size sheet of each	1
25	Iron Nails	Length 50 mm As per sample	6
26	Fe- Filings and Zn dust	Packed in plastic container .	20 g each
27	Filter paper	Ordinary. Circular of dia 100 mm	10
28	Micro Test Tube Brush	Plastic, Soft Hair, 120mm in length.	1
29	Dispensing Bottle	Low density poly ethylene, capacity 15mL dia 30mm. with screw cap and nozzle. As per sample	15
30	Vials	Low density poly ethylene . 55mm. height x dia 15 mm. As per sample	20
31	Double mouthed flask	Borosilicate. Thickness 1.5 mm with one mouth dia 26 mm x 25 mm height (with rim) and outer dia of nozzle 06mm to 08 mm x 28 mm length. Bulb outer dia 50 mm with overall length 110 mm. As per sample.	1
32	Stop cock	Borosilicate glass, capacity 05 mL, is rotating screw type flow stop cock with Poly Tetra Flour Ethylene (PTFE) key and cup. As per sample	1
33	PVC. Tube	PVC. Tubing pieces 6 mm to 8 mm to fit with item No.31 inner dia and lengths 30mm.	4
34	Micro Filtration Unit	Borosilicate glass, Boiling tube : height 80 mm, diameter 20 mm, having side tube for fitting rubber bulb, Small rubber bulb, rubber cork to fit on the boiling tube, Hirsch funnel - 01 number.	1
35	Copper Electrodes	Rubber cork of axial length 29mm, smaller face dia 20mm & bigger face dia 26mm fitted two copper electrodes length 80 mm, dia 3mm. Both electrodes have 90° bent length 10 mm.	1
36	One way Key	One way plug key (Brass), base 80 mm x 55 mm.	
37	Connecting Wire	Soft electric wire 200 mm. length both end fitted with crocodile clips Two red and two black. As per sample	4
38	Magnesium Ribbon	5mm x 5 meter role	1
39	Cotton wool	Mini cotton role 50 g	1
40	Wash Bottle	LDPE, capacity 125 mL. good quality.	1
41	Pasteur Pipette (Dropper)	Low Density Poly Ethylene (LDPE), capacity 03 mL.	6
42	Plastic Box	Polypropylene transparent milky White box, Overall Size 115mm x 95mm x 48mm height with cover.	1
43	Kit Box along with carton	12 mm. thick wooden ply outer box size 425mm. x 250 mm. width x 180mm. height with flap box open with two flap top open back side and front flap rest in the base. Inside of the box slabs for vials and dispensing bottles or mini item locking system and handle in the top as per sample. Carton packing and placing of kit box ready for transport. As per sample.	1
(BIOLOGY)			
S. No	Item Name	Specification	No. Off
1	Kit Box	12 mm. thick wooden ply outer box size 350mm. x 320 mm x 250mm.depth with door. Inside the box three pocket one side and one for microscope. locking system and handle in the top. painted in teak colors . As per sample	1
2	Compound Microscope	ISI marked microscope : metal body, overall height approx. 320 mm, base 125 mm x 200 mm. Achromatic good quality lenses. Two Objectives : 10x & 45x. Two Eyepieces : 10x & 15x having coarse & fine adjustment knobs & fixed condenser.	1
3	Glass micro slides	Standard glass item 75mm. x 25mm x 1mm. thick.	8

4	Pasteur Pipette (Dropper)	Low Density Poly Ethylene (LDPE), capacity 03 mL.	4
5	Washing Brush	Soft hairs. Micro test tube brush.	1
6	Razor Blade	Stainless steel. standard size	2
7	Micro Test Tubes	Borosilicate glass, diameter 10 x 45 mm. height with rim,	6
8	Test tube holder	Length 200 mm, to hold the test tubes upto 10 mm dia.	1
9	Beaker 50 mL.	Borosilicate glass, capacity 50 with 10mL graduation.	2
10	Beaker 10 mL.	Borosilicate glass, capacity 10 mL, dia 25mm x 34 mm height	2
11	Magnifying Lens	Aluminium made two folding type first fold attached with convex lens. Folding size 32mm. x 22mm	1
12	Watch glass	Soda glass, diameter 50 mm.	2
13	Needles	Standard, length 110 mm, with plastic handle.	2
14	Forceps	Stainless steel, length 100 mm.	1
15	Blotting paper	Standard quality. In square shape 100 x 100mm.	10
16	Test tube rack	Perspex sheet size 100 mm X 27 mm X 12 mm. 04 holes to hold Micro Test Tubes.	1
17	Wash Bottle	LDPE, capacity 125 mL.	1
18	Surgical Scissor	125 mm, one prong blunt and other pointed, standard.	1
19	Glass rod	Solid glass rod dia 5mm. x 170mm.	2
20	Filter paper	Ordinary. Circular of dia 100 mm	10
21	Measuring Cylinder (10 mL)	High Density Poly Ethylene(HDPE), capacity 10 mL.	1
22	Cotton	Mini cotton role 50g.	1
23	Muslin cloth	Fine cotton cloth 150x150mm. Piece.	1
24	Painting brush	01 number size with Fine heir	1
25	Spring balance	A.B.S, open type, capacity 250 g graduation in steps of 10 g on one side on front face and Newton's on the other side on front face. As per sample.	1
26	Measuring Pan with Holder	Plastic pen, dish type dia 80mm. with wire holder.	1
27	Laboratory Stand Assembly Steel rod Clamp Boss Head	G' clamp, 50 mm jaws, maximum opening 40 mm, with two locking screws and holes. HDPE MS rod dia 10 mm x 300 mm long, , Boss head and laboratory clamp As per sample	1
28	Assembly Boiling tube with cork fitted glass tube	Borosilicate boiling glass tube dia 25mm. x 150mm.length with rim. And assembled cork with bore dia 5mm.x 140mm.length glass tube fitted in the cork bore.	2
29	Tripod	Aluminium Top : 63 mm dia X height 15 mm, three blind holes to hold test tube. Three legs : Mild Steel Rod 04 mm diameter X 165 mm overall length 180mm. As per sample	1
30	Kerosene Burner	0.4 mm thick plated tin sheet container dia 75 x 55 mm height fitted with container lid locked with four aluminium wick holder dia 6.3 x 42 mm height. Cover with ebonite insulator and aluminium spacer to lock the container lid and chimney holder inside dia 45 mm x 5 mm height. MS sheet plated with centre 20 mm dia seam hole attached with inner chimney dia 20 mm inside x 56 mm height. Fitted with 0.4 mm thick plated cap. Outer chimney dia 45 mm x 56 mm height MS sheet 0.63 mm thick plated fitted with chimney holder. Both chimney at crossing points holes dia 1.5 distance 6.5 x 5.6 mm. Overall Burner height 140 mm. As per sample	1
31	Test tube 20mL	Borosilicate boiling glass tube dia 25mm. x 150mm.length with rim.	2
32	W- Tube	Borosilicate glass, 2 mm thick x 8 mm dia having length of arm 75 mm with wide mouth in one arm.	2
33	Thread	Small real cotton thread	1
34	Petridis	Borosilicate dia 90mm. x 16mm. depth.	2
35	Cover glasses	Microscopic cover glass 18mm.	1
36	U-clips	Standard medium size	01 dozen
37	Knife/Cutter	100 mm X 1.5 mm, hardened steel, with wooden handle.	1
38	Split cork	Rubber cork of axial length 30 mm, smaller face dia 20 mm. bigger face dia 25 mm. in the two equaled part	1
39	Black paper	Black chart paper A4 size.	1
40	Magnifying glass (A type)	Optical glass, focal length 120 mm, in the plastic frame with handle handle.	1
41	Vials	High Density Poly Ethylene (HDPE), height 55 mm, diameter 15 mm. As per sample.	6
42	Dispensing Bottle	Low Density Poly Ethylene (LDPE), Capacity 15 mL, with screw type cap and nozzle. As per sample.	6
43	A box of tooth pick		1
44	Conical Flask	25 ml borosilicate glass Fitted with cork & delivery tube	1
45	Permanent slides Permanent slides Parenchyma Collenchyma Sclerenchyma Epithelial tissue Striated Muscles Smooth muscles Nerve cells Hydra (budding) Spirogya Binary fission in Amoeba	Packed in plastic box.	1

	Hydra j) Malarial Parasite (showing life cycle) k) some diseased plants. l) Binary fission in Paramecium		
46	Specimens Starfish Tape worm Mosquito Lifecycle Silk moth Honeybee Cockroach Earthworm Ascaris		1
47	Plastic boxes	Appropriate size to keep all glass items.	3

4. Specifications for 1 Science Lab. equipment (Total Sec. School to be supplied Science Lab. equipment - 14 Schools)

S.No	Item Name	Specification	Quantity of 1 kits
1	Spring balance	A.B.S, open type, capacity 250 g wt graduation in steps of 10 g wt on one side on front face and Newton's on the other side on front face. As per sample.	2
2	Magnetic Compass	Metal case, polystyrene transparent top, magnetized needle with north marked red and south marked blue, dia 50mm x 8mm hight.	1
3	Set of three resistors 5 Ohm, 10 Ohm and 15 Ohm	15 mm x 15 mm x 125 mm with nichrome wire resistance, embedded in plastic case with terminal. Three combine set all connected in series, it will work as a rheostat.	3
4	Measuring Cylinder	Plastic, transparent with built in base, 100 mL graduation (min 1 mL), marking with 10 to 100mL.	1
5	Bar Magnet	Size 75 x 12 x 08 mm. red colour N and S pole mentioned. Alnico	2
6	Ring magnet	Outer diameter 18 mm and inner dia 7mm and thickness 3mm. Ferrite	1
7	Disk Magnet	Diameter 35 mm and 8 mm thick. Ferrite	1
8	U-shaped magnet	Arms length 50 mm, , red colour N and S poles to be marked. 10mm x 08mm rod. Alnico	1
9	Aluminium pipe	Thin pipe 0.5mm & length 100mm. x diameter 6mm.	1
10	Slinky	Steel Wire Spiral roll, outer dia 52 mm and close size 68-70 mm. 0.5 mm thickness with 0.2 mm.	1
11	One way Key	One way plug key (Brass), base 78 mm x 54mm.	1
12	Laboratory Stand Assembly	M.S. rod dia 9.2 mm x 380 mm long, chrome plated. with M.S. base thickness 2mm and black powder coating. C.I. Boss head black painted as per standard. with clamp 235mm long. As per sample	M.S. Rod
	1) M.S. rod		01 Boss head
	2) Boss head		01 Base
	3) Base		01 Clamp
	4) Clamp		
13	Connecting Wire Crocodile clips	Soft electric wire 400 mm. length both end fitted with Crocodile clips. three red and three black.	3
14	Connecting Wire banana clips	Soft electric wire 400 mm. length both end fitted with banana clips. three red and three black.	3
15	Metal Cylindrical with Hook	Solid cylindrical M.S. and aluminium dia 20mm x 50mm length with hook.	01 Alu.
			01 M.S.
16	Pendulum Ball with hook	Steel ball dia 20mm. & another ball 35mm attached with hook for pendulum.	1
17	Split Rubber cork	07 No. size	1
18	Thread	Fine quality Cotton thread thick approx 01mm.	1
19	Concave Mirror	Dia 50mm. focal length 10 centimeter & 15 cm.	1
20	Convex Mirror	Dia 50mm. focal length 10 centimeter & 15 cm.	1
21	Lens double convex	Dia 50mm. focal length 10 centimeter & 15 cm.	1
22	Lens double concave	Dia 50mm. focal length 10 centimeter & 15 cm.	1

23	Prism	Equilateral glass prism 25 x 25 mm.	1
24	Glass Slab	Glass slab 75 x 50 x 12 mm height.	1
25	Plano concave	Spherical Plano Lenses made from Perspex sheet of size 50 mm x 20 mm x 12 mm.	2
26	Double Convex Lens	Spherical Double convex lenses. Each made from Perspex sheet of size 50 mm x 20 mm x 12 mm. and matching with Plano concave.	1
27	Half Cylindrical Lens	Perspex rod of size dia 25 mm x 15 mm height.	1
28	Cell Holder	Cell holder for 4 'D' type cells box outer size 135 x 75 x 35 mm. height with cover.	1
29	Copper Strip	Strip size 60 x 10 x 0.5mm.	1
30	Enameled copper wire	24 SWG. Enameled copper wire. 1 meter length approx.	1
31	Nichrome wire	24 SWG. Nichrome wire. . 1 meter length approx.	1
32	Nichrome wires	Three resistance wires of Nichrome of different diameters.	1
		1. dia 5.5mm (24SWG)	
		2. dia 4.3mm (27SWG)	
		3. dia 3.8mm (28SWG)	
33	Constantan Wire	27 SWG. , 1 meter role.	1
34	Multicore flexible insulated electric copper wire	2 meter length, wire dia 0.19 mm (36 SWG) Total No. of cores- 21	2
35	250g weight with hook	One 50g disc attached with dia 3mm x 90mm. hook and author number of four 50g weight fitted with slots one by one total weight will be 5 x 50g = 250g.	1
36	Protector (Half)	Transparent plastic dia 90 mm, thickness 2 mm. Double angle marking 0-180°	2
37	Plane mirror strips	Glass strip 150mm. x 30mm x 2mm. thick.	2
38	Beaker 50ml	50 mL beaker borosilicate glass with 10 mL graduation.	01 each
39	stirrer	Glass stirrer rod dia 4mm x 106mm length	1
40	Multimeter With Battery	Pocket size, digital, high impedance. Function:- DCV, ACV Resistor(ohm) Diode, Buzzer, transistor(HFE), Temperature, Square wave output, Battery test. As per sample.	2
41	Laboratory Thermometer	Glass, alcohol filled, -10° C to 110° C, graduation 1° C with card board/plastic cover and cotton at both ends.	1
42	(i) Perspex lens holder	(i) Dia 35mm. Perspex rod over all hight 55mm with with 2.5 mm x 10mm elliptic depth slot & 4mm wide x 6mm elliptical depth slot. Bottom end slot 5mm x 27.5 mm for sliding on wooden scale.	1
	(ii) Screen holder	(iii) Perspex piece over all height 21.5mm approx round bottom 47.5 mm slit 27.5 x 5mm depth width 25.5 mm top slit straight 8mm deep & 3mm wide.	1
	(iii) Candle Holder	(iii) Perspex piece over all height 21.5mm approx round bottom 47.5 mm slit 27.5 x 5mm depth width 25.5 mm top have 12mmdia hole x 8mm depth	1
44	Wooden scale / Optical Bench	400 + 400mm x 27mm. x 6mm. thick wooden scale. Marking in top centimeter and millimeter. in two parts to be joint through two pins	1
45	Screen	White plastic glazed sheet 100mm. x 100mm. x 2.5mm.	1
46	Candle	Small size 80mm high with out base dia 12mm.	1
47	Thumb pins	Drawing pins standard item. 10mm with 15 dia head.	1 packet 30 Nos.
48	Sand paper	Size A4 or 275 x 225mm Grain 100 to 120.	1
49	Pulley with Frame & Rod	Plastic pulley dia 50mm attached with frame 75mm x 17mm x 24.5SWG M.S sheet and attached "L" type M.S rod dia 6mm x 115mm length and 23mm after 90°. pulley fixed with aluminium axle, friction free moving.	1
50	Plastic Box big	Polypropylene transparent milky White box, Overall Size 225mm x 140mm x 75mm height with cover.	2
51	Plastic Box small	Polypropylene transparent milky White box, Overall Size 125mm x 75mm x 45mm. height with cover. Use for putting glass item.	1
52	Stopclock Mechanical	Main scale 0 to 60 s (least count one s), small scale 0 to 60 minute (least count one minute), appropriate size to store in the kit box. As per sample.	1

53	Kit Box	12 mm. thick wooden ply outer box size 435mm. x 265mm x 180mm. height box open with two flap top open back side and front flap rest on the base. Inside of the box in the middle sliding wooden tray and back side pockets for putting the kit items. Locking system and handle in the top painted with teak wood colour. As per sample.	1
54	Micro Test Tube	Borosilicate glass, diameter 10 x 45 mm height with rim	16
55	Test Tube Holder	Length 200 mm, to hold the test tubes upto 10 mm dia.	1
56	Test Tube Stand	Perspex sheet size, 100mm x 27mm x 12 mm height with four blind holes to hold micro test tubes dia10mm.	4
57	Dropper with Rubber Bulb	Rubber bulb with 100 mm x dia 6 mm. Glass tube, overall dropper size 125 mm.As per sample	2
58	Glass Rod and Stirring Rod	Glass rod Dia 4 mm x 100 mm in length	1
59	Spatula	Overall size 104mm spoon size 9 x 7 mm. Stainless steel	1
60	Beaker (10 mL)	Borosilicate 10 mL with rim. dia 25mm x 34mm height.	4
61	Funnel	Borosilicate top dia.40 mm.	1
62	Dry Cell Holder	Cell holder for 4 'D' type cells. Box outer size 135 mm x 75 mm x 35 mm. height with cover.	1
63	Torch Bulb with Holder	Screw type bulb holder with 3 V bulb. As per sample	1
64	Beaker (50 mL)	Borosilicate glass, capacity 50 mL with 10mL graduation.	1
65	Measuring Cylinder (10 mL)	Height density polyethylene (HDPE) capacity 10 mL As per sample	1
66	W- Tube	Borosilicate glass, 2 mm thick x 8 mm dia having length of arm 7075 mm with wide mouth in one arm. As per sample	6
67	Tripod	Aluminium top 63 mm dia x 15 mm thick 3 blind hole dia 10.5 x 10 mm depth to hold test tube. Attach with three legs 4 mm dia x 165mm allover length180mm. As per sample	1
68	Kerosene Burner	0.4 mm thick plated tin sheet container dia 75 x 55 mm height fitted with container lid locked with four aluminium wick holder dia 6.3 x 42 mm height. Cover with ebonite insulator and aluminium spacer to lock the container lid and chimney holder inside dia 45 mm x 5 mm height. MS sheet plated with centre 20 mm dia seam hole attached with inner chimney dia 20 mm inside x 56 mm height. Fitted with 0.4 mm thick plated cap. Outer chimney dia 45 mm x 56 mm height MS sheet 0.63 mm thick plated fitted with chimney holder. Both chimney at crossing points holes dia 1.5 distance 6.5 x 5.6 mm. Overall Burner. As per sample	1
69	Laboratory Stand	MS rod dia 10 mm x 375 mm long with base attach with G-clamp and Boss Head. As per sample	01 each
70	Litmus Paper	Red and Blue colours.	1 booklet each
71	Watch Glass	Soda glass, dia 50 mm x 2 mm thick.	1
72	China Dish	Bowl, outer diameter 70 mm / 75mm.	1
73	Thermometer (Laboratory)	Glass, alcohol filled, -10° C to 110° C, graduation 1° C with card board/plastic cover and cotton at both ends.	1
74	pH Paper	pH 1-11, paper box containing, 10 booklets	10
75	Metals (Zn, Cu, Fe,	Strips , dimension 80 mm x 5 mm, x1mm. As per sample	5
76	Emery Paper and Sand paper	A4 size sheet of each	1
77	Iron Nails	Length 50 mm As per sample	6
78	Fe- Filings and Zn dust	Packed in plastic container .	20 g each
79	Filter paper	Ordinary. Circular of dia 100 mm	10
80	Micro Test Tube Brush	Plastic, Soft Hair, 120mm in length.	1
81	Dispensing Bottle	Low density poly ethylene, capacity 15mL dia 30mm. with screw cap and nozzle. As per sample	15
82	Vials	Low density poly ethylene , 55mm. height x dia 15 mm. As per sample	20
83	Double mouthed flask	Borosilicate. Thickness 1.5 mm with one mouth dia 26 mm x 25 mm height (with rim) and outer dia of nozzle 06mm to 08 mm x 28 mm length. Bulb outer dia 50 mm with overall length 110 mm. As per	1

		sample.	
84	Stop cock	Borosilicate glass, capacity 05 mL, is rotating screw type flow stop cock with Poly Tetra Flour Ethylene (PTFE) key and cup. As per sample	1
85	PVC. Tube	PVC. Tubing pieces 6 mm to 8 mm to fit with item No.31 inner dia and lengths 30mm.	4
86	Micro Filtration Unit	Borosilicate glass, Boiling tube : height 80 mm, diameter 20 mm, having side tube for fitting rubber bulb, Small rubber bulb, rubber cork to fit on the boiling tube, Hirsch funnel - 01 number.	1
87	Copper Electrodes	Rubber cork of axial length 29mm, smaller face dia 20mm & bigger face dia 26mm fitted two copper electrodes length 80 mm, dia 3mm. Both electrodes have 90° bent length 10 mm.	1
88	One way Key	One way plug key (Brass), base 80 mm x 55 mm.	
89	Connecting Wire	Soft electric wire 200 mm. length both end fitted with crocodile clips Two red and two black. As per sample	4
90	Magnesium Ribbon	5mm x 5 meter role	1
91	Cotton wool	Mini cotton role 50 g	1
92	Wash Bottle	LDPE, capacity 125 mL. good quality.	1
93	Pasteur Pipette (Dropper)	Low Density Poly Ethylene (LDPE), capacity 03 mL.	6
94	Plastic Box	Polypropylene transparent milky White box, Overall Size 115mm x 95mm x 48mm height with cover.	1
95	Kit Box along with carton	12 mm. thick wooden ply outer box size 425mm. x 250 mm. width x 180mm. height with flap box open with two flap top open back side and front flap rest in the base. Inside of the box slabs for vials and dispensing bottles or mini item locking system and handle in the top as per sample. Carton packing and placing of kit box ready for transport. As per sample.	1
96	Kit Box	12 mm. thick wooden ply outer box size 350mm. x 320 mm x 250mm.depth with door. Inside the box three pocket one side and one for microscope. locking system and handle in the top. painted in teak colors . As per sample	1
97	Compound Microscope	ISI marked microscope : metal body, overall height approx. 320 mm, base 125 mm x 200 mm. Achromatic good quality lenses. Two Objectives : 10x & 45x. Two Eyepieces : 10x & 15x having coarse & fine adjustment knobs & fixed condenser.	1
98	Glass micro slides	Standard glass item 75mm. x 25mm x 1mm. thick.	8
99	Pasteur Pipette (Dropper)	Low Density Poly Ethylene (LDPE), capacity 03 mL.	4
100	Washing Brush	Soft hairs. Micro test tube brush.	1
101	Razor Blade	Stainless steel. standard size	2
102	Micro Test Tubes	Borosilicate glass, diameter 10 x 45 mm. height with rim,	6
103	Test tube holder	Length 200 mm, to hold the test tubes upto 10 mm dia.	1
104	Beaker 50 mL.	Borosilicate glass, capacity 50 with 10mL graduation.	2
105	Beaker 10 mL.	Borosilicate glass, capacity 10 mL, dia 25mm x 34 mm height	2
106	Magnifying Lens	Aluminium made two folding type first fold attached with convex lens. Folding size 32mm. x 22mm	1
107	Watch glass	Soda glass, diameter 50 mm.	2
108	Needles	Standard, length 110 mm, with plastic handle.	2
109	Forceps	Stainless steel, length 100 mm.	1
110	Blotting paper	Standard quality. In square shape 100 x 100mm.	10
111	Test tube rack	Perspex sheet size 100 mm X 27 mm X 12 mm. 04 holes to hold Micro Test Tubes.	1
112	Wash Bottle	LDPE, capacity 125 mL.	1
113	Surgical Scissor	125 mm, one prong blunt and other pointed, standard.	1
114	Glass rod	Solid glass rod dia 5mm. x 170mm.	2
115	Filter paper	Ordinary. Circular of dia 100 mm	10
116	Measuring Cylinder (10 mL)	High Density Poly Ethylene(HDPE), capacity 10 mL.	1
117	Cotton	Mini cotton role 50g.	1

118	Muslin cloth	Fine cotton cloth 150x150mm. Piece.	1
119	Painting brush	01 number size with Fine hair	1
120	Spring balance	A.B.S, open type, capacity 250 g graduation in steps of 10 g on one side on front face and Newton's on the other side on front face. As per sample.	1
121	Measuring Pan with Holder	Plastic pen, dish type dia 80mm. with wire holder.	1
122	Laboratory Stand Assembly	G' clamp, 50 mm jaws, maximum opening 40 mm, with two locking screws and holes. HDPE MS rod dia 10 mm x 300 mm long, , Boss head and laboratory clamp As per sample	1
	Steel rod		
	Clamp		
	Boss Head		
123	Assembly Boiling tube with cork fitted glass tube	Borosilicate boiling glass tube dia 25mm. x 150mm.length with rim. And assembled cork with bore dia 5mm.x 140mm.length glass tube fitted in the cork bore.	2
124	Tripod	Aluminium Top : 63 mm dia X height 15 mm, three blind holes to hold test tube. Three legs : Mild Steel Rod 04 mm diameter X 165 mm overall length 180mm. As per sample	1
125	Test tube 20mL	Borosilicate boiling glass tube dia 25mm. x 150mm.length with rim.	2
126	W- Tube	Borosilicate glass, 2 mm thick x 8 mm dia having length of arm 75 mm with wide mouth in one arm.	2
127	Thread	Small real cotton thread	1
128	Petridis	Borosilicate dia 90mm. x 16mm. depth.	2
129	Cover glasses	Microscopic cover glass 18mm.	1
130	U-clips	Standard medium size	01 dozen
131	Knife/Cutter	100 mm X 1.5 mm, hardened steel,	1
132		with wooden handle.	
133	Split cork	Rubber cork of axial length 30 mm, smaller face dia 20 mm. bigger face dia 25 mm. in the two equal part	1
134	Black paper	Black chart paper A4 size.	1
135	Magnifying glass (A type)	Optical glass, focal length 120 mm, in the plastic frame with handle handle.	1
136	Vials	High Density Poly Ethylene (HDPE), height 55 mm, diameter 15 mm. As per sample.	6
137	Dispensing Bottle	Low Density Poly Ethylene (LDPE), Capacity 15 mL, with screw type cap and nozzle. As per sample.	6
138	A box of tooth pick		1
139	Conical Flask	25 ml borosilicate glass Fitted with cork & delivery tube	1
140	Plastic boxes	Appropriate size to keep all glass items.	3

1. FOR supply of the above items at respective school.
2. The supplier has to manage pre-delivery inspection as per directions of the State Project Director, Samagra Shiksha, Manipur. In case of any material found not as per specifications, the same would be rejected & no claim would be accepted by Samagra Shiksha, Manipur for any loss incurred to the supplier. The supplier has to replace the sub-standard material within ten days of written notice from the Authority as per the approved specification for no extra cost. No liability shall be accepted by State Project Director in the regard.
3. The installation at the schools could be inspected, by the specific directions of State Project Director, by any state/central government authorities or any other agency. The charges of such inspection shall be borne by the supplier.
4. The successful bidder shall not sub-let the supply order or the part of it, to any other supplier.

5. In case of any dispute regarding specifications, the decision of the State Project Director shall be final.
6. The supplier shall organize to transport, store and secure equipment during the process of establishment of the system at his/her own cost with no liability to the State and the school.
7. The list of the Schools to be supplied is at Annexure-A:
8. The supplier shall develop and maintain an inventory and the document shall form a part of the completion report to be submitted. A copy of this inventory will be available with the school at all times and shall be made available for scrutiny as and when called for.
9. The supplier and the school shall undertake to jointly inspect, test and certify successful implementation at each stage of the process.
10. The supplier shall submit a completion report to the State, duly certified by concerned official.

Inspection:

- a) SPD or his duly authorized representative shall at all reasonable time have access to the bidders' premises and shall have the power to inspect and examine the quality and workmanship of the goods to be supplied. A pre-delivery inspection shall also be carried out before the dispatch to respected schools.
- b) The bidder shall furnish complete address of the premises of his office, godown and workshop where inspection can be made, together with name and address of the person who is to be contacted for this purpose.
- c) Supplies, when received shall be subject to inspection to ensure whether they conform to the specifications. Where it is necessary and the supplies will be accepted only where the articles conform to the standard of prescribed specifications as a result of such observation/ verification.
- d) The Contractor shall inspect the School premises and draw up a plan of action and time schedule for the preparation of the school premises, in consultation with the school.
- e) The Inspection and the consequent plan of action, shall include all issues (for transport of equipment, etc.), installation works, electrical works, and security.

Payment Terms

- a) 30% mobilization advance may be release to the firm with the submission of Bank Guarantee of equal amount.

- a) Proportionate payment may be made after completion of installation of Lab. Tinkering Laboratories at the respective schools and certified by concerned school head teacher/teacher/official.
- c) The liquidated damages (if any) shall be deducted as per the terms and conditions as mentioned in the agreement.
- d) GST/ Service Tax/ Applicable levies shall be deducted as per the relevant Act/ Laws/ Rules, if applicable.
- e) 5% Security Deposit will be refunded after thirty days of successful completion of the work.

Supply of Lab. Tinkering

Supply of 18 Lab. Equipments and 427 Science Kits & Maths Kits for Secondary & Sr. Secondary Schools and 514 Maths & Science Kits for Elementary Schools shall be done, as per the prescribed schedule.

If he fails to execute the project as per approved specification, within specified time frame, the liquidity damages shall be recovered from his bill. In case of any delay due to reasons beyond control of the supplier, he is advised to inform the State Project Director promptly, in writing, explaining the reasons & seek the extension. Such request would be made before the due date of supply only. The State Project Director reserves the right to accept or reject the request with/without liquidity damages.

Tentative supply schedule:

Duration

6 Months from the date of receiving work order

Chapter- 5

General Terms and Conditions

1. Earnest Money

- a. The bidder shall furnish, with the Technical Bid, an earnest money amounting to Rs. 2,74,768/- (Rupees two lakhs seventy four thousand seven hundred and sixty eight) only in the form of Bank Draft/Bank Guarantee/ Bankers Cheque/ pay order drawn in favour of “ **State Project Director, Samagra Shiksha, Manipur**” payable at Imphal.
- b. Such negotiable instrument should be valid for a period of six months (180 days) from the date of submission of Bid.
- c. The Earnest Money may be forfeited on account of one or more of the following reasons:
 - The bidder withdraws his bid during the period of bid validity specified by him on the bid letter form.
 - Bidder does not respond to SPD/Samagra Shiksha or the Zonal Education Office / Zonal Co-ordinator Samagra Shiksha, MANIPUR requests for clarification of his bid.
 - Bidder fails to co-operate during the bid evaluation process, and
 - In case of a successful bidder, the said bidder fails:
 - (a) to sign the agreement in given time; or
 - (b) to furnish Security Deposit of specified amount.

2. Bidding Process

a. Bid Submission

- The bids shall be submitted in two **envelopes**, i.e.
 - I. **Envelope - A (Technical bid)**: It should contain the EMD of specified amount along with all documents **except financial bid**.
 - III. **Envelope – B (Financial bid)**: The financial bid should be submitted in prescribed proforma.
- All the two envelopes must be sealed properly & put up in an outer envelope which should also be sealed. All the envelopes

may be addressed to State Project Director, Samagra Shiksha, Manipur. The envelopes should be marked with number i.e. A/B & "Bid for Supply of Lab. Tinkering" should be written in the upper right corner.

- The bid shall be submitted in one copy only.
- The bid shall be typed or written in indelible ink and shall be signed by the bidder or a person duly authorized to sign the contract/agreement. **The person or persons signing the bid shall initial all pages of the bid & submit the signed bid document along with Technical Bid in envelop 'A' as a token of acceptance of all terms and conditions contained in the bid document.**
- The last date for submission of bid is as per time schedule advertised or as amended.

b. Validity of Bids

- Bids shall remain valid for 180 days from the date of Bid opening. A bid valid for a shorter period shall be rejected as non-responsive. The validity of bids may be extended with mutual consent of State Project Director & the bidder.

c. Prices MUST NOT be indicated in the Technical Bid and must be quoted in the Financial Bid only.

d. Financial Bid

- i. Financial Bid should only indicate prices without any conditions or qualification whatsoever. Taxes such as GST, Income Tax, service tax, duties, fees, levies etc., levied by Central & State Government/Government Bodies, as may be applicable in relation to supply of the goods should be all inclusive. Rates quoted should be inclusive of all applicable taxes.
- ii. Bidders should express the price of their product in Indian currency only.

e. Date & Time of Opening of Technical Bid

- i. The Technical bids will be opened by TEC, in the presence of bidders who wish to be present, as per the time schedule advertised.
- ii. The technical bids shall be evaluated as per the eligibility criteria, given in chapter 3 of this bid document. The bidders who fulfill **the entire criterion** shall be declared qualified for opening of financial bids.

3. Cost of Preparation of Bids

- i. The bidder shall be solely responsible for the cost of preparing and submitting the bid and all other related costs.

4. Bidder to acquaint himself fully

- i. The bidder is advised to assess at his own level the quantum of work & related expenditure of supply, delivery and installment of solar panel at the concerned school and satisfy himself before quoting his bid.
- ii. The bidder shall be deemed to have fully acquainted with the specification of **18 Lab. Equipments and 427 Science Kits & Maths Kits for Secondary & Sr. Secondary Schools and 514 Maths & Science Kits for Elementary Schools** and carefully examined the special conditions, and shall be deemed to have been fully informed regarding the local conditions, factors and various prevailing laws at the time being. The Bidder should, therefore plan his schedule of work properly so as to complete the supply within stipulated time limit. State Project Director, Samgra Shiksha, Manipur will not be liable for any loss or damage sustained by the bidder due to any reason whatsoever.

5. Liquidity Damages (LD)

- i. In the event of failure to supply of **18 Lab. Equipments and 427 Science Kits & Maths Kits for Secondary & Sr. Secondary Schools and 514 Maths & Science Kits for Elementary Schools** as per conditions of this document, the State Project Director reserves the option to recover liquidated damages (LD) which would be recovered from the supplier in the following manner:

S.No.	Delay Limit	LD to be recovered
1.	Delay up to 1 month of the supply period	2.5% of the order value (Minimum)
2.	Delay more than 1 month and upto 3 months of the supply period	5% of the order value
3.	Delay above 2 months up to 3 months of the supply period.	7.5% of the order value
4.	Delay above 3 months of the supply period	10% of the of the order value (Maximum)

In case of any condition beyond the control of supplier, the supplier should request the State Project Director to extend the time limit. This request shall be entertained before the due date of supply only. The State Project Director reserves the right to extend the supply period with/without LD or to reject the application on insufficient grounds.

6. Rejection of bid.

The bids which do not fulfill any of the conditions or the notified requirements, directions & guidelines laid down by the State Government/State Project Director, shall be considered incomplete and are liable to be rejected without assigning any reason thereof.

7. Alternative Proposals by Bidders

Bidders shall submit bid, which comply with the documents, including the basic requirements as indicated in the bid documents. Alternative bids shall not be considered. The attention of bidders is drawn to the provisions that one bidder shall submit only one bid, either individually or as partner in any of the organization failing which both or all such bids shall be rejected.

8. Disqualification

State Project Director in its sole discretion and at any time during the processing of bidding may disqualify any bidder from the bid process, if the bidder has:

- Submitted the bid after the scheduled date and time.
- Firms not meeting eligibility criteria.
- Made misleading or false representations in the forms, statements and attachments submitted in proof of the eligibility requirements.
- If found to have record of poor performance such as abandoning works, not properly completing the contract, inordinately delaying completion, being involved in litigation or financial failures, etc.
- Submitted bid which is not accompanied by required documents and Earnest Money Deposit (EMD) or is non-responsive.
- Failed to provide clarifications related thereto, when sought.
- Submitted more than one bid. This will cause disqualification of all bids submitted by such applicants.
- Bidders, who are found to canvass, influence or attempt to influence in any manner the qualification of selection process, including without limitation, by offering bribes or other illegal gratification shall be disqualified from the process at any stage.
- A bid not valid for at least 180 days shall be considered as non-responsive and would be disqualified.

9. Security Deposit (SD)

- Successful Bidder shall carry out the supply in conformity with generally accepted professional and technically accepted norms relevant to such assignments that are required for Supply of Sports Kits of approved specifications and which are to the entire satisfaction of the State Project Director.
- In the event of any deficiency in supply, the Successful Bidder shall promptly take necessary action to resolve it, at no additional price.
- Successful bidder will have to execute an agreement on a Non-Judicial Stamp (to be purchased from the state of Manipur only) of appropriate value within a period of 7 days of receipt of order and deposit security deposit which shall be 5% of the contract value, prior to signing of agreement. The cost of the stamp paper shall be borne by the bidder.
- The form of Security Deposit Money shall be as below:
 - Bank Draft/Bank Guarantee/ Bankers Cheque duly discharged in favour of State Project Director, Samagra Shiksha, Manipur.
 - Post-office Saving Bank Pass Book duly pledged in favor of State Project Director, Samagra Shiksha, Manipur.
 - National Savings Certificate, Defence Savings Certificates, Kisan Vikas Patras or any other script/instrument under National Saving Scheme for promotion of small savings, if the same can be pledged in favour of State Project Director, Samagra Shiksha, Manipur. These certificates shall be accepted at their face value.
- The SD money shall be refunded after expiry of contract period/extended period provided there is no breach of contract on the part of contractor.
- The purchaser will pay no interest on the EMD & Security Deposit.
- Failure of the Successful Bidder to comply with the requirements shall constitute sufficient grounds for the annulment of the award and forfeiture of the SD.

10. Forfeiture of Security Deposit

Security Deposit amount in full or part may be forfeited in the following cases:

- i. When the terms and conditions of contract is breached by the supplier.
- ii. When the bidder fails to make complete supply satisfactorily.
- iii. Notice of reasonable time will be given in case of forfeiture of security deposit. The decision of State Project Director shall be final, in this regard.
- iv. Failure of the successful bidder to comply with the requirement of the contract shall constitute sufficient grounds, to award the contract to the next lowest evaluated bidder or call for new bids.

11. General Conditions

- **GST, Income Tax, Service Tax Registration and filing documents:** No bidder shall participate in the bid process without registration under the provisions of relevant Act and produces registration and clearance certificate/ returns, with the technical Bid (Envelope 'A'). Certificates from the competent authority for clearance of Excise Duty as per **Annexure -II** shall be enclosed with technical bid, failing which his bid may be liable for rejection.
- In the support of information regarding Net worth & turn over, the certificates from CA are to be attached otherwise the same would not be considered. The audited statements of last three financial years are also to be submitted with technical bid.
- Tender forms shall be filled in ink or typed. No tender filled in pencil shall be considered. The bidder shall sign the tender form at each page and at the end, in token of acceptance of all the terms and conditions of the tender. **The signed tender document is to be submitted with technical bid.**
- Rates shall be written both in words and figures. There should not be errors and/or over writings. Corrections, if any, should be made clearly and initialed with dates. The element of the VAT and Central Sales Tax should be indicated separately.
- Bidder shall quote firm prices of solar panel and its component in the price bid. No conditional discounts shall be quoted in the bid e.g. discounts based on conditions linked with bid/security Deposit/guarantees, advance payments, selection of combination of products or product options etc. Financial bids with such conditional clauses may be rejected.

- **Comparison of Rates:** Financial bids of all the Technically Qualified Bidder shall be evaluated. State Project Director reserves the right to award the contract to the firm quoting lowest rate or other than lowest rate at its sole discretion without assigning the reason thereof.
- **Arbitration:** If any dispute arises out of the contract with regard to the interpretation, meaning and breach of the terms of the contract, the matter shall be referred to by the bidder to the Secretary/ Commissioner, Education (S), Government of Manipur who will be the Sole Arbitrator and whose decision shall be binding on both the parties.
- **TDS: GST/ Income Tax/ Service Tax/ applicable levies** shall be deducted at source, if applicable.
- **Jurisdiction:** All legal proceedings, if necessary, arises to be instituted by any of the parties (State Project Director or Contractor) shall have to be lodged in the courts situated in Imphal city only and not elsewhere.
- **Loss of Revenue to the Purchaser :** The bidder shall be vicariously liable to indemnify the purchaser in case of any misuse of data/ information by the bidder, deliberate or otherwise, which comes into the knowledge of State Project Director during the performance or duration of the contract and thereafter.
- **Changed orders:** The State Project Director may at any time, by a written order given to the successful bidder, may change in the quantity/quality of solar panel & its components. If any such change causes an increase or decrease in the cost of, or the time required for, affects bidder's performance of any part of the work under the contract, whether changed or not changed by the order, an equitable adjustment shall be made in the security deposit, contract price or delivery schedule, or both, and the contract shall accordingly be amended. Any claims by the bidder for adjustment under this clause must be asserted within fifteen (15) days from the date of the bidder's receipt of the State Project Director's changed order.
- **Contract Amendments:** No variation in or modification in the terms of the Contract shall be made except by written amendment signed by both the parties i.e. State Project Director & the bidder.
- **Purchaser Right to Accept any bid and to reject any or all bids:** The purchaser reserves the right to accept any bid, and to annul the tender process and reject all bids at any time prior to award of contract, without assigning reasons & without thereby incurring any liability to the affected bidder or bidders or any obligation to inform

the affected bidder or bidders of the grounds or the Purchasers action.

- **Notification of award:** Prior to the expiry of the period of the bid validity, the purchaser will notify the successful bidder in writing that its bid has been accepted. The notification of award will constitute the formation of contract.

Upon the successful bidder's furnishing of Security Deposit, State Project Director, will notify each unsuccessful bidder and will discharge its EMD.

- **Period of Validity:** Bids shall remain valid for 180 days from the last date of bid submission prescribed by the State Project Director which may be extended with mutual consent. State Project Director may reject a bid valid for a shorter period as non-responsive.
- **Period of Contract:** The period of the contract shall be one years from the date of signing of contract extendable, with mutual consent, up to two years.
- **Force Majeure:**
 - a) Notwithstanding the provisions of contract, the bidder shall not be liable for forfeiture of its Security Deposit, or termination for default, if any to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.
 - b) For the purposes of this clauses, "Force Majeure" means an event beyond the control of the bidder and not involving the bidder's fault or negligence and not foreseeable. Such events may include but are not restricted to acts of the purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
 - c) If a Force Majeure situation arises, the bidder shall promptly notify the State Project Director in writing of such conditions and the cause thereof. Unless otherwise directed by the purchaser in writing, the bidder shall continue to perform its obligations under the contract as far as is reasonably practical and shall seek all measures, prevented by the force majeure event.
 - d) The purchaser may terminate this contract, by giving a written notice of minimum 30 days to the bidder being unable to supply the said goods.
- **Termination for insolvency:** The purchaser may at any time terminate the contract by giving written notice to the bidder, without compensation to the bidder, if the bidder becomes bankrupt or otherwise insolvent provided that such termination will not

prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

- **Termination for Convenience:** The purchaser may, by written notice to the bidder, may terminate the contract, in whole or in part at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of work under the contract is terminated and the date upon which such termination becomes effective.
- The contractor shall not assign or sub-let his contract or any substantial part thereof to any other agency/party.
- If a bidder imposes conditions, which are in addition to or in conflict with the conditions mentioned herein, his tenders shall be liable to be rejected. In any case, none of such conditions will be deemed to have been accepted unless specifically mentioned in the letter of acceptance of tender issued by the State Project Director.
- The State Project Director reserves the right to accept any tender not necessarily the lowest, reject any tender without assigning any reasons and accept tender for all or anyone or more of the articles for which bidder has been given or distribute items to more than one firms.
- Any of the Financial Terms & Conditions not covered in this bid document shall be governed as per the provisions of rules prescribed by the Government of Manipur.
- The validity of tender and its execution will be subject to expected fund release of central share by the Ministry of Education, Government of India & state share by Government of Manipur for the budget outlay approved by Project Approval Board (PAB) for the year 2022-23 under SAMAGRA SHIKSHA, MANIPUR for the state of Manipur. SPD SAMAGRA SHIKSHA, MANIPUR reserves the right to modified the volume of supply and any other terms and condition at any stage of tender process/Execution thereof and supplier /bidder shall abide by such modification.

13. The bidder should sign and seal, each and every page of bid document. If the bidder fails to do so, his bid shall not be considered for.

(Signature & Seal of the Bidder)

CHAPTER 6
TECHNICAL BID

I. Addressed to:

a.	Name & Address of the Tendering Authority	State Project Director, Samagra Shiksha, State Implementation Society, Manipur
b.	Telephone	0385 - 2445393
c.	Fax	0385 - 2445393
d.	website	https://manipureducation.gov.in

II. NIT Reference : 2-1/SPD/SS-S/2021/05 dated 15/7/2022

III. Other related details:

1.	Name of Bidder Firm	
2.	Name of Contact Person	
3.	Telephone Number(s)	
4.	Registered Office Address	
5.	Year of Establishment /Year of GST Registration	
6.	Type of Firm Put Tick (✓) mark	Public Limited Partnership Firm Private Limited Other (give details)
7.	Email Address	
8.	Website	
9.	Fax No.	
10.	Mobile Number of Contact Person	
13.	Any other relevant information	

IV. Details of major supplies carried out (to be supported by certificates fulfilling the eligibility criteria):

S. No.	Description (supplied to & year)	Quantity (KW)	Amount
1			
2			
3			

Details of Net Worth & Turn Over:

Year	2019-20	2020-21	2021-22
Turn Over			
Net Worth	Rs..... (as on)		

In the support of above information the certificates from CA are attached with the bid document. We understand that in absence of the above certificate our bid would not be considered.

- V. The Tender fee amounting to Rs. 10,000/- (Rupees Ten Thousand only) has been deposited vide Demand Draft /Bankers Cheque/Cash No. _____ dated _____. Name of Bank- _____ in favour of State Project Director, Samagra Shiksha, Manipur payable at Imphal only
- VI. The rates quoted are valid for 180 days from the last date of submission of bid. The validity can be extended with mutual consent.
- VII. We agree to abide by all the conditions mentioned in this Tender Notice/ documents issued by the Tendering Authority and also the further conditions of the said Tender Notice given in the attached sheets (all the pages of which have been signed by us in token of acceptance of the terms mentioned therein).
- VIII. Reproduced/ reworded - processed formats or tenderer's own formats for the price quotations will disqualify the tender.

IX. GST/Tax filling documents.

Sl. No.	Type of Tax	Whether supporting documents enclosed (Yes/ No)	Certificate No.
1	GST Certificate		
2	Income Tax		
3	Others.		

- X. We accept payment & delivery schedule as per details given in the tender document.
- XI. Technical bid duly filled and signed is enclosed with this tender form along with signed Terms and Conditions in token of acceptance.
- XII. The audited accounts of the bidder for last three years i.e. 2019-20, 2020-21 and 2021-22 are being attached with the bid document.
- XIII. All papers submitted have been signed and sealed (along with annexure and enclosures)
- XIV. The undertaking on Rs.50/- or above denomination Non Judicial Stamp paper that that all the information, documents furnished herewith are true, correct and complete to the best of our knowledge and belief. Nothing has been concealed having material impact in this regard. We (our concern) have never been blacklisted by a Govt. department/ organization or held guilty by any competent authority. We know that our bid can be rejected at any stage during the course of acceptance or even after final acceptance at our risk and cost if any of the above information is found false or for breach of any of the conditions.
- XV. The tender document duly signed by the authorized signatory of bidder, is being submitted with technical bid in token of acceptance of all the terms & conditions of this bid document.

Date:

Place :

Name, Sign & Seal of the Bidder

Chapter-7

Pro forma for Financial Bid

With respect to the NIT dated, followed by submission of our bid dated -----, after studying given specifications & all other conditions of the bid document, read with clarifications/ corrigendum, we hereby submit our financial proposals for the items listed under scope of work as details below:

Sl. No.	Description of Work	Qty	Total Finance (inclusive of all applicable taxes) (in Rs.)
1	Maths Kit (Secondary)	427	
2	Science Kit(Secondary)	427	
1	Maths Kit (Elementary)	514	
2	Science Kit (Elementary)	514	
3	Chemistry Lab. Equipment (Hr. Sec.)	1	
4	Biology Lab. Equipment (Hr. Sec.)	3	
5	Science Lab. Equipment (Secondary)	14	

Notes:

- Financial Bid should only indicate prices without any condition or qualification whatsoever.
- Total price should be inclusive all taxes & all other charges.
- Bidders should express the price of their product in Indian currency only.

Date :

Place :