

**NATIONAL COUNCIL OF EDUCATIONAL RESEARCH & TRAINING
(DIVISION OF EDUCATIONAL KITS)**

E-TENDER DOCUMENT

**NCERT invites online bids for Empanelment of firms for the Supply of
Educational School Kits developed by NCERT**

Last date of submission of Bids: 07/01/2021



Sri Aurobindo Marg, New Delhi - 110016
For details of tender document, please visit CPP Portal at
<https://eprocure.gov.in/eprocure/app> and our website:
www.ncert.nic.in

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F.No. 1-5/2019-20/DEK/Kit
National Council of Educational Research and Training
Sri Aurobindo Marg, New Delhi – 110016

Date: 14/12/2020

NOTICE INVITING TENDER (NIT)

CHAPTER – 1

E-tender are invited in two bid system i.e. Technical Bid and Financial Bid by the undersigned from the manufacturers/Industrial houses dealing in the trade for the purchase of Educational School kits through Central Public Procurement portal e-tender system website: <https://eprocure.gov.in/eprocure/app> and www.ncert.nic.in. Off-line/physical bids shall not be accepted and no request will be entertained on any ground/ reason:-

Critical Date sheet:

Published date on	14/12/2020 (04.00 PM)
Bid document download start date	14/12/2020 (04.30 PM)
Pre-bid conference	21/12/2020 (11.00 AM)
Bid submission start date	24/12/2020 (10.00 AM)
Bid submission end date	07/01/2021 (02.00 PM)
Bid opening date	08/01/2021 (03.00 PM)

Technical Bid

The following documents are to be furnished by the bidder along with Technical Bid as per tender document.

- (i) Name of Agency with complete address, Name of Proprietor/ Partner/Director with telephone number/Fax/E-mail/ Mobile number of concerned person.
- (ii) Self-attested scanned Photocopy of BC/DD of **Rs. 3,000/-** on account of cost of tender document.
- (iii) Self-attested scanned copy of registration certificate with NISC/MSME for the exemption of EMD/Tender cost of the supply of relevant items only.
- (iv) Self-attested scanned copy of sales Tax/VAT/GST and Audit report of the firm whichever is applicable for the last three years **2016-2017, 2017-2018 & 2018-19** are to be enclosed.
- (v) Self-attested scanned copy of PAN Card (in the name of firm only). However the PAN Card issued in name of proprietor can be considered

subject to production of ITR acknowledgement and computation of taxable income duly certified by the Chartered Accountant.

- (vi) Self-attested scanned copy of Annual Turnover as mentioned in chapter-3-(2f) for the last three years i.e. **2016-2017, 2017-2018 & 2018-19**. Year wise copies of the turnover statement and audited balance sheet for the last three financial years i.e. **2016-2017, 2017-2018 & 2018-19** duly certified by C.A of each year along with related document must be attached with the tender document.
- (vii) Self-attested scanned copies of the firm/proprietor for the last three financial years i.e. **2016-2017, 2017-2018 & 2018-19** are to be attached with the tender document.
- (viii) Self-attested scanned copy of EMD in the form of DD/FD as mentioned in Chapter-2(a) of point 1 (Table -1) in favor of the **Secretary NCERT** payable at New Delhi. However, the EMD can also be deposited in the **NCERT Account No. 10137881331 with IFS Code no. SBIN0001690** in SBI NCERT Branch New Delhi. The status of the remittance made to the NCERT to be ensured by the bidder before due date and time.
- (ix) Self-attested scanned copy of solvency certificate as applicable in respect of the firm issued from the nationalized/scheduled/commercial banks for the current financial year as mentioned in chapter 3-2(e).
- (x) Self-attested scanned copy of undertaking for comprehensive warranty/guarantee for a period of 12 months for educational kits.
- (xi) Self-attested scanned copy of non-blacklisting certificate of the firm and non-registration of criminal case in respect of the firm/proprietor on the non-judicial stamp paper of Rs.100/- (As per Annexure-B).
- (xii) Self-attested scanned copy of undertaking regarding acceptance of all terms & conditions of the tender document (As per Annexure- A).
- (xiii) Self-attested Scanned copy of minimum five years' experience in the field of supply of Educational Kits/Scientific instruments.
- (xiv) Self attested scanned copy of the undertaking that the firm will not sublet/transfer the contract to any other firm during the currency of the contract.

(R. Selvaraj)
Sr. Stores Officer
S&S Section

CHAPTER-2

a. SCOPE OF WORK

The tender envisages empanelment of manufacturers/Industrial houses dealing in the trade for supply of Educational School Kits. The educational school kits developed by NCERT are essential teaching-learning material and hence, the quality and timely supply of educational school kits is of paramount importance. The scope of the empanelment contract is outlined below:

1. The successful bidder/firm will be empanelled for supply of Educational School Kits conforming to the specifications and standards as mentioned in the Table-1 of this tender document to the DEK, NCERT for a period of one year. Further, **“NCERT reserves the right to withdraw any of the kits during the period of the empanelment with prior notice of three months”**.

Table – 1

Sl. No.	Type of Educational School Kit	Details of Specification as per	EMD Amount (Rs. in Lakhs)
1	Upper Primary Science Kit with microscope (UPSK)	Annexure -1	1.00
2	Upper Primary Science Kit without microscope (UPSK-WM)	Annexure -1	0.75
3	Upper Primary Mathematics kit (UPMK)	Annexure -2	1.00
4	Secondary Science Kit with Microscope (SSK)	Annexure -3	1.00
5	Secondary Science Kit without Microscope (SSK-WM)	Annexure -3	0.75
6	Secondary Mathematics Lab kit (SMLK)	Annexure -4	1.00
7	Molecular Model Kit (MMK)	Annexure -5	0.75
8	Senior Secondary Physics Lab Kit (HSPLK)	Annexure -6	1.00
9	Senior Secondary Chemistry Lab Kit (HSCLK)	Annexure -7	1.00
10	Senior Secondary Biology Lab kit with Microscope (HSBLK)	Annexure -8	1.00

11	Senior Secondary Biology Lab kit without Microscope (HSBLK-WM)	Annexure -8	0.75
12	Senior Secondary Mathematics Lab Kit (HSML)	Annexure – 9	1.00
13	Early School Mathematics Learning Kit (ESML)	Annexure -10	1.00
14	Resource Package for Awareness in ECCE (English and Hindi)	Annexure -11	0.75
15	Raindrops: Primary English Learning Kit	Annexure -12	0.75
16	Primary Urdu Learning Kit (PULK)	Annexure -13	0.75
17	ECE: Play and Learn Kit	Annexure -14	0.75
Total			15.00

Note- The bidders are required to deposit the prescribed EMD amount (for each kit) for the number of kit(s) applied for.

- The Educational School Kits will be supplied by the firms at the rates finalized by NCERT on F.O.R basis in all over India. The kits supply orders will be placed by NCERT to the successful bidder after depositing requisite performance security within stipulated time period.
- NCERT does not guarantee about placing orders for one or more kits. The placement of purchase order will only depend upon receipt of 100% advance payment from State Govt./Schools/Institutions/Individual buyers.
- The advance orders costing more than Rs. 2.00 lakh received by NCERT will be equally distributed amongst all empanelled firms for any particular kit. The order equal to or below Rs. 2.00 lakh will be placed with one or more firms at sole discretion of Head, Division of Educational Kits (DEK) amongst all empanelled firms on rotation basis for each type of the respective kit for which a proper record is to be maintained by DEK.
- No advance payment is admissible to the successful bidder by the Council under any circumstances.
- The contract will initially be for one year. However, further extension for two years of the contract will be given on year to year basis as per Govt. norms subject to satisfactory performance of the firm and at the sole discretion of the NCERT on the same terms and conditions with the approval of the Competent Authority.

b. TECHNICAL PROPOSAL SUBMISSION FORM

Date:.....

LETTER OF BID

To,

The Head,
Division of Educational Kits (DEK)
National Council of Educational Research & Training (NCERT)
Sri Aurobindo Marg,
New Delhi- 110016.

Ref.: Invitation for e-Bid No. /TENDER NO.1-5/2019-20/DEK/Kits Dated: 14.12.2020
Sir,

I/We, the undersigned, declare that:

1. I/We have examined the Bidding Documents and have no reservations to it.
2. I/We offer to execute in conformity with the Bidding Documents for supply of Educational School Kits for (NCERT), New Delhi.
3. The bid shall be valid for a period of 180 days from the date fixed for the bid submission deadline in accordance with the Bidding Documents and it shall remain binding upon me/us and may be accepted at any time before the expiry of that period.
4. If the bid is accepted, I/we commit to submit a performance security in accordance with the Bidding documents.
5. I/We also declare that Government of India or any other Government body has not declared me/us ineligible or black listed me/us on charges of engaging in corrupt, fraudulent, collusive or coercive practices or any failure/lapses of serious nature.
6. I/We also accept all the terms and conditions of this bidding document and undertake to abide by them, including the condition that NCERT is not bound to accept highest ranked bid/lowest or any other bid that you may receive.

Yours Sincerely,

(Authorized Signatory)

(Authorized person shall attach a copy of Authorization for signing on behalf of Bidding company)

Full Name and Designation

Note: Letter of Bids should be on the letter head of the concerned firm.

CHAPTER-3

INSTRUCTIONS TO THE BIDDERS

1. GENERAL INSTRUCTIONS

- 1.1 For the Bidding/ Tender Document Purposes, 'National Council of Educational Research & Training shall be referred to as 'NCERT' and the Bidder / Successful Bidder shall be referred to as 'Contractor' and / or Bidder' and / or 'firm' or interchangeably.
- 1.2 Online submission of tender bid should be done through CPP Portal (<https://eprocure.gov.in/eprocure/app>). Sealed kit samples are required to be submitted to the Head, DEK, Workshop building NCERT, Sri Aurobindo Marg, New Delhi – 110016 within the stipulated date and time. However, Tender Fee of **Rs. 3,000/- (Rupees Three Thousand Hundred Only)** can be made either by way of Bank Draft/ Banker Cheque in favour of the **Secretary, NCERT**, payable at New Delhi on any working day or through e-remittance (**NCERT Account No. 10137881331 with IFS Code no. SBIN0001690** in SBI NCERT Branch, New Delhi). The details of the DD/BC or e-remittance made on account of tender fee may be submitted to the Head, DEK before closing the online submission of the tender.
- 1.3 **The EMD of Rs. 15,00,000/- (Rupees Fifteen Lakh Only)** for all kits as per Table -1 of Chapter 2 or as per individual kit should be enclosed in the form of Demand Draft/ Bankers Cheque or in the form of Bank Guarantee only drawn in favour of the **Secretary NCERT** payable at New Delhi valid for at least three months, failing which the tender will not be considered at any cost and will be rejected.
- 1.4 Utmost care has been taken in drafting of the tender document to avoid errors. However, the bidders are advised to check the documents carefully. No claim on account of any errors detected in the tender documents shall be entertained.
- 1.5 Each page of the documents uploaded on the portal must be stamped and duly signed by the person or persons in token of his/ her/their acceptance of the contract conditions as mentioned in the tender document. The bid with any of the documents not duly signed is liable to be rejected at the discretion of the NCERT.
- 1.6 The bidder shall attach the copy of the authorization letter / power of attorney in support as proof of authorization for signing on behalf of the bidder.
- 1.7 All bidders are hereby explicitly informed that conditional offers or offers with deviations from the conditions of contract, the bids not meeting the minimum eligibility criteria, technical bids not accompanied with EMD of requisite amount or any other requirements, stipulated in the tender document are **liable to be rejected**.
- 1.8 Prototype models and sample of each and every item of Educational School kits are available in DEK, NCERT. Prospective bidders may visit to see the samples and design feature of the kit on all working days from **14/12/2020 to 07/01/2021** from 10:00 am to 4:00 pm excluding lunch break.

- 1.9** Both the technical and financial bids should be submitted online. Samples have to be submitted in the office of **'The Head, DEK, Workshop Building, NCERT, Sri Aurobindo Marg, New Delhi'** before the end of the online submission of tender date and time. No samples or any other documents will be entertained after closing date and time of the bid.
- 1.10** The online bid may be submitted for supply of one or more kits and / or for all kits as per minimum turnover and minimum area of manufacturing unit, eligibility criteria etc. The submission of excess kits beyond eligibility criteria will result in rejection of whole bid. Once the bid is submitted, the request for part consideration of bid will not be considered at a later stage of the tendering process.
- 1.11** In case a bidder withdraws his/her/their bid after its opening and within the validity period of bid, the EMD shall be forfeited without any notice.
- 1.12** NCERT reserves the right to award parallel rate contract (PRC) for empanelled firms for the supply of Educational School Kits developed by the NCERT. In this process, NCERT will decide the lowest price bidders among the price bids submitted by the technically qualified bidders. Thereafter the lowest price will be counter offered to other bidders who are not lowest, to accept the price of lowest bidder.
- 1.13** The firm will quote the price of the kits in bid including the packing charges, loading and unloading, transportation, Insurance and GST/ any other applicable taxes on F.O.R anywhere in India (including NCERT New Delhi) and the quoted price should be both in figures and words. In case of any discrepancy, the lowest price either in figure or words will be taken as final.
- 1.14** No claim for any price escalation during contract shall be entertained.
- 1.15** Discount / gift offers/ conditional offers on the quoted price are not allowed at any stage of the tendering process.
- 1.16** 5% (Five percent) price of the kit value as a license fee must be deposited by the firm / charged by the NCERT for sale of Educational School Kits either directly from the NCERT empanelled vendors/firms inter-alia following the equal distribution criteria of the NCERT for each type of kit strictly or through NCERT respectively. As regards the Distribution Criteria, the same is as under:
a) up to the order value of Rs.2.00 lakh, it would be at the discretion of the Head, DEK, NCERT to distribute the ordered quantity amongst the empanelled firms/vendors on rotation basis for each type of the respective kit for which a proper record is to be maintained;
b) In case the order value exceeds Rs.2.00 lakh, the ordered quantity will be equally distributed strictly amongst the NCERT empanelled firms/vendors for each type of respective kit.

1.17 Performance Security

- i. Within 15 days of the receipt of notification of award of supply order the firm shall have to furnish the Performance Security @ 10 % of order value in the form of DD/Banker's Cheque/Bank Guarantee in favour of Secretary, NCERT, for a period of fifteen months from the date of award of supply order.
- ii. In the event of failure of the firm to submit the Performance security, the Earnest Money shall be forfeited and the orders will be cancelled.

1.18 Taxes and Duties

The firm shall be solely responsible for payment of all taxes including GST, transportation charges or any other charges till the delivery of the kits is made to the NCERT as a client/ specified destinations. However, the percentage of GST will be reckoned and charged as per the Government of India notification issued from time to time.

1.19 Delivery

The firm will be responsible for the safe delivery of the kits till the entire lots of kits arrive at DEK, NCERT store/godown or F.O.R in all over India in full and in good condition. The firm is solely responsible for any mis-happening in transit of the kits and NCERT will not be a party in any way in settlement of such claims if any. The NCERT will not pay for any transit insurance. **However all deliveries are subject to inspection/verification by the NCERT /Clients.**

1.20 Inspections

- i. The NCERT reserves the right to inspect the premises of the successful bidder, where the Educational School Kits with the NCERT logo will be manufactured/ supplied or at the final destination of the kits, by the teams of NCERT.
- ii. It is the responsibility of the bidders to notify/inform the NCERT at least 10 days in advance for arranging inspection of kits before the expiry of the stipulated time of delivery of Kits.
- iii. In case, there is a shortage of items or if any item (s) of the kit fails to conform to the specification, or damaged during transportation, the firm shall replace the rejected kit(s)/kit's item(s) free of cost within a period allowed for manufacturing time limit and extendable for 10 days after the stipulated period whichever is earlier.
- iv. The kits items will be inspected by a team of NCERT Experts in the premises of the successful bidder, for which all logistic facilities and assistance shall be provided to the team members by the successful bidder. However, TA/DA and lodging charges with respect to NCERT team members will be borne by the NCERT as per norms.

1.21 Terms of Payment

- i. No advance payment will be made by the NCERT to the firms under any circumstances.
- ii. The payment will be released within 30 days after receipt of the entire quantity of kits and inspection certificate. The kits will be inspected by the designated technical/subject experts and on the basis of inspection report certificate from the committee by clearly stating that the kit(s) received is/are as per specification and in good condition.
- iii. Since, the price quoted is inclusive of all the charges including GST.

1.22 The parties to the bid shall be the 'bidder' (to whom the work is likely to be awarded) and National Council of Educational Research & Training (NCERT), New Delhi shall be 'Client'.

1.23 For all purposes of the contract including arbitration there under, the address of the bidder mentioned in the bid shall be final unless the bidder notifies a change of address by a separate letter sent by registered/speed post with acknowledgement-due to the National Council of Educational Research & Training. The bidder shall be solely responsible for the consequences of any omission or error to notify in change of address in the aforesaid manner.

1.24 Warranty

Warranty of the Educational School kits shall be for a period of 12 months warranty from the date of delivery of kits at the premises of the purchaser. A Warranty Certificate along with the list of items should invariably be supplied and the same may be put in the kit box at the time of delivery. During the warranty period, the firm shall replace defective items at free of cost.

1.25 Penalty/Liquidated Damages and Recoveries

- i) The firm will supply Educational School Kits to the NCERT within 90days including inspection of kits by the NCERT /buyer, after receipt of order from the NCERT, failing which a penalty of 0.5% per day of total order value subject to maximum of 20 days delay after expiry of normal delivery schedule shall be imposed by the NCERT. Thereafter, supply order as well as empanelment, as deemed fit; will be cancelled without any communication.
- ii) If any complaint is received during the warranty period of 12 months, the firm will be required to replace the defective item(s) free of cost within 20 days; failing which penalty of 0.5% per day of total order value subject to maximum of 10% of order value would be imposed by the NCERT.

1.26 The requirement of the number of Educational School Kits is tentative and may increase or decrease at the sole discretion of the NCERT.

2. MINIMUM ELIGIBILITY CRITERIA

The following shall be the minimum technical eligibility criteria for selection of bidders.

- a) **Legal Valid Entity:** The Bidder shall necessarily be a legally valid entity registered as per government norms. **A proof for supporting the legal validity of the Bidder shall be submitted.** The capacity of the manufacturers/Industrial houses dealing in the trade must have minimum area of the manufacturing unit/space as per the following table. The proof of the same must be submitted.

Quoted for no. of Kits (NOT Serial No. of Kit)	Minimum sq. ft. of the Area required
Up to Four types of kits	2000 sq. ft.
Five to Eight types of kits	3000 sq. ft.
Nine to Twelve types of kits	4000 sq. ft.
Above Twelve types of kits	5000 sq. ft.

- b) **Registration:** The firm should be a manufacturing unit registered under Factories Act 1948 subject to submission of proof of registration under Shop Establishment Act or professional Act or Commercial Act along with self-declaration on a non-judicial affidavit of Rs. 100/- .It must possess Income Tax, GST registration and PAN card in the name of the firm. However, PAN card in the name of proprietor can be considered subject to production of ITR acknowledgment and computation of taxable income duly certified by Chartered Accountant. In case of proprietary firm, the firm should be registered under Shop and Establishment Act, 1954 in the respective Central/State/UT.
- c) **Clearance:** The Bidder should submit the copy of Income Tax Return for the last three financial years as mentioned in Chapter -7 at Sr. no. 11 and the GST clearance certificate for the latest financial year 2019-20 or for the preceding financial year i.e. 2018-19.
- d) **Experience:** The Bidder should have minimum Five years' experience in the field of supply of Educational Kits/Scientific instruments.Out of the total supply made during the five years in the past, 50% of the minimum annual turnover should be from Govt. sector/Public sector/Autonomous Bodies under GOI/States with satisfactory performance, for which documentary proof should be attached.
- e) **Solvency certificate** for an amount as per chart below in respect of the firm which is issued from the nationalized bank/scheduled commercial bank in the current financial year is required to be submitted.

Quoted for no. of Kits (NOT Serial No. of Kit)	Solvency Certificate Amount
Up to Four types of kits.	Rs. 50 Lakh
Five to eight types of kits.	Rs. 01 Cr.
Nine to twelve types of kits.	Rs. 1.5 Cr.
Above Twelve types of kits.	Rs. 02 Cr.

- f) Minimum Average Annual turnover of the firm along with the Audited balance sheet for the last three financial years i.e. 2016-17, 2017-18 & 2018-19 as per the table given below:

Quoted for no. of Kits (NOT Serial No. of Kit)	Minimum Average Annual Turnover (Rs. in crore)
Up to Four types of kits	0.75
Five to Eight types of kits	1.50
Nine to Twelve types of kits	2.25
Above Twelve types of kits	3.00

- g) The firm should also submit pollution under Control certificate from the respective Central/State/UT government agencies. However, honoring the Ministry of Environment and Forests Notification dated 5th March 2016, the firms falling in white /green categories may get exemption subject to submission of NOC/documentary proof w.r.t the particular firm from the competent authority.
- h) Excise registration/Excise declaration / GST for last three financial years 2016-17, 2017-18 & 2018-19 whichever is applicable is also mandatory to be enclosed. However, the firms are allowed to submit a copy of declaration in the prescribed Performa filed at GST circle during their latest financial year.

2.1 Self-attested documents supporting the Minimum Eligibility Criteria

- (i) In proof of having fully adhered to the minimum eligibility criteria at 2(a), self-attested copy of all relevant documents along with lease/rent agreement of the minimum area of the manufacturing unit registered with sub-registrar office of respective Central/State/UT are required to be enclosed.
- (ii) In proof of having fully adhered to minimum eligibility criteria at 2(b) and 2(c), self-attested copies of firm's registration under Factories Act and PAN card, ITR, Sale Tax/VAT/GST registration, Service tax are to be enclosed. However, the firms are allowed to submit the GST return certificate for the latest financial year. Income tax Returns/Sales Tax/ VAT/ Service tax /GST of the firm for the last three financial years are to be enclosed.
- (iii) In proof of having fully adhered to minimum eligibility criteria at 2(d), self-attested copy of experience with proof of supply order along with completion certificate/inspection report/proof of delivery/satisfactory completion certificate are required to be enclosed. Bank statement cannot be considered as an experience certificate.

- (iv) In proof of having fully adhered to minimum eligibility criteria at 2(e), self-attested scanned copy of latest Solvency Certificate in respect of the firm for an amount of as per chart from the Nationalized Bank/Scheduled Commercial Banks which should not be more than three months old.
- (v) In proof of having fully adhered to minimum eligibility criteria at 2(f), self-attested scanned copy of annual turnover of the firm should be in accordance of clause 2(f) of Chapter-3 duly certified by C.A. along with the Audited Balance Sheet for the completed three Financial Years i.e. for 2016-17, 2017-18& 2018-19. In support of this the relevant documents are required to be enclosed.
- (vi) In proof of having fully adhered to minimum eligibility criteria at 2(g) self-attested copies of pollution under control certificate from the respective Central/State/UT Government agencies are to be enclosed.
- (vii) In proof of having fully adhered to minimum eligibility criteria at 2(h)self-attested copies of excise registration /excise declaration/GST for the year 2016-17, 2017-18& 2018-19 are to be enclosed.

3 EARNEST MONEY DEPOSIT (EMD) or (BID SECURITY) :

- 3.1 The hard copy of EMD amount (i.e. Bid Security)as mentioned in item no. 1.3 of instructions to bidders under Chapter – 3 in the form of Account Payee Demand Draft/ Bankers Cheque/ Bank Guarantee from any of the Nationalized / Scheduled Commercial Bank in an acceptable form in favour of Secretary, NCERT payable at New Delhi should be submitted before closing the online bid submission date to Head DEK, NCERT, New Delhi. The validity of the Bid Security shall be for a period of 180 days. The same can be extended, if required, for further 180 days.
- 3.2 No request for transfer of any previous deposit of Earnest Money or Security Deposit or adjustment against any pending bill held by the Department in respect of any previous work shall be entertained for the instant tender.
- 3.3 Bidders shall not be permitted to withdraw their offer or modify the terms and conditions thereof. In case the bidder fails to observe and comply with the stipulations made or back out after quoting the rates, the aforesaid bid security shall be forfeited by the NCERT.
- 3.4 The bids without Earnest Money Deposit shall be summarily rejected.
- 3.5 No claim shall lie against the NCERT in respect of erosion in the value or interest on the amount of Earnest Money Deposit or Security Deposit.
- 3.6 Bid security (EMD)will be returned to the successful bidders on receipt of performance security.

3.7 **The bid security (EMD) can be forfeited:**

- (i) If the bidder withdraws his bid during the tendering process of the bid validity specified by the bidder in the bid form; or
- (ii) In case of successful bidder, if the bidder
 - a. Fails to sign the contract in accordance with the terms of the tender document
 - b. Fails to furnish required performance security in accordance with the terms of tender document within the time frame specified by the NCERT.
 - c. Fails or refuses to honor his / her own quoted prices for the services or part thereof.
- (iii) Irrespective of the above, if any of the information, details, documents, etc. is found to be incorrect/forged/fabricated, the NCERT shall be entitled to forfeit the earnest money.

4. **VALIDITY OF BIDS**

- 4.1 Bids shall remain valid and open for acceptance for a period of **180 days** from the last date of submission of Bids.
- 4.2 In case NCERT calls the bidder for negotiations for acceptance of counter offer/parallel rate contract, then this shall not amount to cancellation or withdrawal of original offer which shall be binding on the bidder.
- 4.3 The NCERT may request for extension for another period of 60 days, without any modifications and without giving any reason thereof.

5. **PREPARATION OF BIDS**

- 5.1 **Language:** Bids and all accompanying documents shall be in English.
- 5.2 **Technical Bid:** Technical Bid and sealing of samples should be prepared and submitted as per the instructions given in the Tender Document along with all required information, documents in support of the minimum eligibility criteria, Valid EMD of requisite amount.

Documents comprising the Bid:

- a. Technical Bid Submission Form duly signed and typed on Company's letterhead as per Chapter-2(b).
- b. Signed and Stamped on each page of the tender document.
- c. Contact Details Form-I and bid security Form - II of Chapter-10 duly filled and signed.
- d. Contract agreement Form-III of chapter -10 filled in, signed and stamped.
- e. Earnest Money Deposit as mentioned in item no. 1.3 of Chapter -3.
- f. All self-attested supporting documents in proof of having fully adhered to minimum eligibility criteria as referred in Chapter-3 (clauses 2 and 2.1).

6. PRE-BID Meeting

For clarifying issues & clearing doubts, a pre-bid meeting shall be scheduled on 21/12/2020 at 11:00 AM in Conference Room, above SBI, NCERT, New Delhi. Interested bidders shall intimate the NCERT about their participation in the Pre-Bid meeting and send their queries prior to the Pre-Bid meeting through e-mail to dek.ncert@gmail.com well before (at least one day before) the scheduled date and time of the Pre-Bid meeting.

No queries were raised beyond the stipulated date and time or any verbal/written queries raised during the Pre-Bid meeting will be entertained. The queries sent through e-mail within the stipulated date and time will only be taken up for discussions during the Pre-Bid meeting.

The decision /replies to the queries will be intimated during the conduct of Pre-Bid meeting itself and the decision of the competent authority of the NCERT will be final and binding for all purposes. No query of any form will be entertained or agreed after the Pre-Bid meeting.

The minutes of the Pre-Bid meeting will be published in the NCERT website www.ncert.nic.in and the same will become a part of the tender document and the contract agreement.

- 6.1 At any time prior to the deadline for submission of tender, the NCERT may, for any reason, whether at its own initiative or in response to clarifications requested by a bidder, modify the tender document by the issuance of addendum/ corrigendum and same will become the part of tender document. The Addendum /Corrigendum will be available on the NCERT website www.ncert.nic.in. No separate notification/advertisement will be issued for this in the print media. In order to afford the bidder a reasonable time for taking an addendum into account or for any other reason, the NCERT may, at its own discretion, extend bid due date.

7. SUBMISSION OF BIDS

- 7.1 The Bid documents shall be submitted online not later than 02.00 PM on 07/01/2021 & addressed to Head, DEK, National Council of Educational Research & Training, workshop building Sri Aurobindo Marg, New Delhi-110016.
- 7.2 The sealed samples and hard copy of technical bid must be submitted in the office at the address specified above not later than the date and time stipulated in the notification. No sealed sample shall be accepted after the aforesaid date and time. However the NCERT reserves right to extend the date and time for receipt of online bids before opening of the Technical Bids.

8. BID OPENING PROCEDURE

- 8.1 The Technical Bids shall be opened in the Conference Room of DEK, NCERT, Sri Aurobindo Marg, New Delhi-110016 at **11.00 a.m. on 08/01/2021** by the committee authorized by the competent authority of the National Council of Educational Research & Training in the presence of such bidders or their authorized representatives who wish to be present there. The inspection of samples will be done by a panel of experts constituted by the competent authority and sample inspection process is a part of technical evaluation. In case of any ambiguity in the samples and the specifications, the technical parameters mentioned in the specification will be taken as a final.

- 8.2 The financial bids of only those bidders whose Technical Bids are qualified, shall be opened by the committee authorized for the purpose. The date, time and venue of opening of the financial bids shall be intimated to the technically qualified bidders.
- 8.3 A letter of authorization should be submitted by the Bidder's representative before opening of the Bids.
- 8.4 Absence of bidder or their representative shall not impair the legality of the opening procedure.
- 8.5 After opening of the Technical Bids and verifying the EMD amount, the technical bids shall be evaluated later to ensure that the bidders meet the minimum eligibility criteria as specified in the Tender Document.
- 8.6 Bids shall be declared as Valid or Invalid based on the preliminary scrutiny, i.e. verification of EMD/other documents, by the Tender Opening Committee. The sample evaluation of only valid bids will be done by the sample verification committee. The valid bids whose samples were approved will be treated as technically qualified bids for further opening of financial bids.
- 8.7 The date fixed for opening of bids, if subsequently declared as holiday by the NCERT/Government, the revised date of schedule will be notified. However, in absence of such notification, the bids will be opened on next working day, the time and venue remaining unaltered.
- 8.8 Team of NCERT will visit bidder's site to inspect minimum eligibility criteria as mentioned in Chapter - 3 point 2.

9. CLARIFICATION ON TECHNICAL BID EVALUATION.

- 9.1 NCERT also reserves right to seek confirmation/ further clarification from the Bidder, on the supporting documents submitted by the bidder.
- 9.2 Only those bidders who qualify the technical evaluation shall be called for opening of financial bids. NCERT will intimate the bidders, the time and venue for the financial Bid opening through written communication by post/fax/email.

10 FINANCIAL BID OPENING PROCEDURE

- 10.1 The financial bids of all the technically qualified bidders shall be opened on the appointed date and time in presence of the qualified bidders/their authorized representatives, who wish to be present at the time of opening of the financial bids.
- 10.2 All the technically qualified bidders/their authorized representatives present at the time of opening of the financial bids shall be required to submit the authorization letter from their companies.
- 10.3 Absence of bidders or their authorized representatives shall not impair the legality of the process.

- 10.4 The financial bid price, as indicated in the financial bid submission form of each bidder shall be read out on the spot, however, it shall be clearly stated that the final financial bid prices would be arrived at after detailed scrutiny/correction of arithmetical error, if any, in the financial bid.

11. RIGHT TO ACCEPT AND TO REJECT ANY OR ALL BIDS:

- 11.1 Notwithstanding anything contained in this tender document, the National Council of Educational Research & Training (NCERT) reserves all rights to accept or reject any bid to annul the bidding process and reject all bids at any time without any liability or any obligation for such acceptance, rejection or annulment and without assigning any reason thereof. The decision of the National Council of Educational Research & Training in this regard shall be final and binding.
- 11.2 Any failure on the part of the bidder to observe the prescribed procedure and any attempt to canvass for the work shall render the bidder's bids liable for rejection.
- 11.3 The NCERT reserves the right to reject the entire supply order or part order without assigning any reason.
- 11.4 The NCERT may terminate the supply order and empanelment of kits, if it is found that the firm is black listed on previous occasions by any of the Government Departments/ Institutions/Local Bodies/ Municipalities/Public sector undertaking/Autonomous bodies etc. In this case EMD amount will be forfeited without any communication.

12. NOTIFICATION OF AWARD OF CONTRACT BY ISSUANCE OF 'LETTER OF INTENT'

- 12.1 After determining the successful evaluated bidder, NCERT shall issue a Letter of Intent (LOI) in duplicate. The firm will return one copy to NCERT duly acknowledged, accepted and duly signed by the authorized signatory, within seven (07) days of receipt of the same.
- 12.2 The issuance of the Letter of Intent to the bidder shall constitute an integral part of the contract and it will be a binding to the bidder.

13 SPECIAL NOTE TO THE TENDERERS

The bidder will be responsible to put page-number for each and every page/paper of the tender document, failing which the tender will not be considered and rejected out rightly. Further the tender document should also contain a proper index of all the quotes/details of the tender.

CHAPTER - 4

GENERAL CONDITIONS OF CONTRACT (GCC)

1. DEFINITIONS

1.1 General

In this Contract including the Schedules, the following words and expressions shall have the meaning assigned to them, unless the context requires otherwise.

Client	National Council of Educational Research & Training (NCERT).
Firm/bidder	Shall mean the successful bidder to whom the Empanelment contract for supply of Educational Kits has been awarded.
Letter of Intent	Shall mean the intent of the NCERT to engage the successful bidder for supply of Educational School Kits.
Confidential Information	shall mean all information that is not generally known and which is obtained/received during the tenure of the contract and relates directly to the business /assets of the NCERT including the information having commercial value.
Agreement	The word "Agreement" and "Contract" has been used interchangeably.
Termination	Shall mean the date specified in the notice of termination, i.e. date given by either Party to the other Party, from which the contract shall stand terminated. Termination Shall mean the notice of termination given by the either party Notice to the other party

1.2 CONFIDENTIALITY

- 1.2.1 The bidder(s) shall take all precautions not to disclose, divulge and / or disseminate to any third party any confidential information, proprietary information on the NCERT's business, i.e. schedules and other subsequent agreements. The obligation is not limited to any scope and the contractor shall be held responsible in case of breach of the confidentiality of NCERT's information.

- 1.2.2 If the bidder(s) receives inquiries from Press/ News/ Media/ Radio/ Television or other bodies/ persons, the same shall be referred by the bidder(s) to NCERT immediately on receipt of such queries.

2. PERFORMANCE SECURITY DEPOSIT

- 2.1 The successful bidder within fifteen (15) days of the acceptance of the Letter of Intent (LOI) shall execute a Performance Security in the form of an Account Payee Demand Draft/Bank Guarantee from a Nationalized/ Scheduled Commercial Bank in an acceptable form in favour of the **Secretary, NCERT, New Delhi**, payable at New Delhi.
- 2.2 Performance security should remain valid for Fifteen months beyond the date of completion of all contractual obligations and will cover warranty period also.
- 2.3 Bid Security (EMD) will be returned to the successful bidder on receipt of Performance security.
- 2.4 The performance security can be forfeited by order of the National Council of Educational Research & Training, in the event of any breach or negligence or non-observance of any terms/conditions of the contract / for unsatisfactory performance / for non-acceptance of the purchase order. On expiry of the contract, such portion of the said Bank Guarantee as may be considered by the National Council of Educational Research & Training, sufficient to cover any incorrect or excess payments made on the bills to the firm, shall be retained.
- a. If the bidder is called upon by the National Council of Educational Research & Training to deposit Performance Security and the bidder fails to provide the performance security deposit within the period specified, such failure shall constitute a breach of the contract and NCERT shall be entitled to make other arrangements at the risk, cost and expenses of the lowest bidder, besides forfeiting the EMD.
- b. On due performance and completion of the contract in all respects, the performance security deposited will be returned to the bidder without any interest.

3. COMMENCEMENT OF CONTRACT

After the acceptance of the Letter of Intent (LOI) and securing performance security from the successful bidder, NCERT shall issue the 'Commencement of Contract' to the bidder authorizing him/her to supply the Educational School Kits at the specified locations and date.

4. SERVICES REQUIRED BY THE NCERT

- 4.1 The bidder shall supply the Educational School Kits to NCERT as per the details given to be read with the Special Conditions of Contract, Assignment Instructions and Schedule of Requirements **(CHAPTER-6)**.
- 4.2 It shall be the sole responsibility of the bidder to supply the Educational School Kits in the NCERT's premises or any other location as required by the NCERT to its full satisfaction.

5. BIDDER'S OBLIGATIONS

- 5.1 The bidder shall supply the Educational School Kits as per the Schedule of Work / Requirements as stipulated in CHAPTER- 6 which may be amended from time to time by the NCERT during the order execution period and it shall always form a part & parcel of the order. The bidder shall abide by such assignments as provided by the NCERT from time to time.
- 5.2 The bidder shall supply the Educational School Kits after exercising adequate supervision and ensure secured and proper packing in all respects. The NCERT shall not be liable in any manner for any damages during transportation.
- 5.3 Adequate supervision shall be provided to ensure correct supply of the Educational School Kits in accordance with the prevailing requirements agreed upon between the two parties.

6. BIDDER'S LIABILITY

- 6.1 The bidder shall completely indemnify and hold harmless the NCERT and its employees against any liability, claims, losses or damages sustained by it or them by reason of any breach of contract, wrongful act or negligence by the bidder.
- 6.2 The bidder shall not sub-contract or sub-let, transfer or assign the supply order or any other part thereof. In the event of the bidder contravening this condition, NCERT shall be entitled to place the supply order elsewhere on the bidder's risk and cost and the bidder shall be liable for any loss or damage, which the NCERT may sustain in consequence or arising out of such replacing of the supply order.

7. VALIDITY OF CONTRACT

The empanelment of the contract, if awarded, shall be initially valid for a period of one year from the date of award of contract subject to satisfactory performance. However, the contract can be further extended for another two years on year to year basis subject to satisfactory performance of the bidder with the approval of the Competent Authority of NCERT. In case of breach of any of the conditions of the tender document or in the event of non-fulfilling the minimum requirements/ statutory requirements, it will at the sole discretion of the NCERT to forfeit the performance security deposited by the bidder, termination of the empanelment of the contract forthwith or both, black listing of the bidder, as deemed fit.

8. PAYMENTS

- 8.1 After selection of the successful bidder a price schedule shall be annexed to the Articles of Agreement/Letter of Intent (LoI) according to which all payments shall be made to the bidder by the NCERT for the supply of Educational School Kits.
- 8.2 The prices in the Price Schedule shall be including of GST, transportation, packing, loading/un-loading, or any other applicable taxes/levies as may be charged by the Government from time-to-time.
- 8.3 The bidder shall raise invoice/bills in triplicate duly affixing a revenue stamp of Rs.1/- for the supply of Educational School Kits enclosing warrantee certificate together with list of items and all other relevant documents and submit the same to NCERT at the time of supply of kits.
- 8.4 The initial cost of the supply order shall be valid till completion of supply. No price escalation shall be entertained by the NCERT during the validity period.
- 8.5 All payments shall be made in Indian Currency through NEFT/RTGS/Demand Draft/Bankers Cheque.
- 8.6 NCERT shall be entitled to deduct TDS in accordance with the Applicable Law from the payments made to the bidder. NCERT shall provide a certificate certifying the deduction so made (Form-16A).
- 8.7 No payment shall be made in advance to the bidder in any case. However, full payment will be released only after getting the full supply of Educational School Kits in good and satisfactory condition by the NCERT.

9. FORCE MAJEURE - OBLIGATIONS OF THE PARTIES

“Force Majeure” shall mean any event beyond the control of NCERT or of the bidder, as the case may be, and which is unavoidable notwithstanding the reasonable care of the party affected, and which could not have been prevented by exercising reasonable skill and care and good industry practices and shall include, without limitation, the following:

- (i) War, hostilities, invasion, act of foreign enemy and civil war;
- (ii) Rebellion, revolution, insurrection, mutiny, conspiracy, riot, civil commotion and terrorist acts;
- (iii) Strike, sabotage, unlawful lockout, epidemics, quarantine and plague;
- (iv) Earthquake, fire, flood or cyclone, or other natural disaster.

As soon as reasonably practicable but not more than 48 (forty-eight) hours following the date of commencement of any event of Force Majeure, an Affected Party shall notify the other Party of the event of Force Majeure setting out, inter alia, the following in reasonable detail:

- a. The date of commencement of the event of Force Majeure;
- b. The nature and extent of the event of Force Majeure;
- c. The estimated Force Majeure Period.
- d. Reasonable proof of the nature of such delay or failure and its anticipated effect upon the time for performance and the nature of and the extent to which, performance of any of its obligations under the supply order is affected by the Force Majeure.
- e. The measures which the Affected Party has taken or proposes to take to alleviate/mitigate the impact of the Force Majeure and to resume performance of such of its obligations affected thereby.
- f. Any other relevant information concerning the Force Majeure and /or the rights and obligations of the Parties under the supply order.

10. RIGHT TO TERMINATION

Under the following conditions NCERT reserves the right to terminate the contract

- a) In case, the bidder does not supply the Educational School Kits satisfactorily in the premises of the NCERT/specified destination as per the requirements of the NCERT or / and as per the Schedule of Requirements.
- b) In case, the bidder goes bankrupt and becomes insolvent.
- c) In case breach of any terms and conditions of the tender document by the bidder, the NCERT shall have the right to cancel the supply order without assigning any reason thereof, and nothing will be payable by the NCERT and in that event the performance security deposit in the form of BG/Demand draft and other dues shall be forfeited by the NCERT.

11. CURRENCIES OF BID AND PAYMENTS

The Bidder shall submit his/her price bid / offer in Indian Rupees and payments under this contract will be made in Indian Rupees only.

12. GOVERNING LAWS AND SETTLEMENT OF DISPUTE

Any claims, disputes and or differences (including a dispute regarding the existence, validity or termination of this supply order) arising out of, or relating to this contract including interpretation of its terms shall be resolved through joint discussion of the Authorized Representatives of the concerned parties. However, if the disputes are not resolved by the discussions as aforesaid within a period 15 days, then the matter will be referred for adjudication to the arbitration of a Sole Arbitrator to be appointed by the Director NCERT in accordance with the provisions of the Arbitration and Conciliation Act 1996 and rules made there under including any modifications, amendments and future enactments thereto. The venue for the Arbitration will be New Delhi and the decision of the Arbitrator shall be final and binding on the parties.

Jurisdiction of Court: This supply order is governed by the laws of Republic of India and shall be subject to the exclusive jurisdiction of the courts in Delhi.

13. Consortium

Consortium will not be allowed at any cost by the NCERT.

CHAPTER – 5

SPECIAL CONDITIONS OF CONTRACT (SCC)

5.1 The special conditions of Contract shall supplement the “Instructions to the Bidders” as contained in **CHAPTER- 3** and General Conditions of the Contract (GCC) as contained in **CHAPTER-4**.

5.2 **INDEMNIFICATION:**

The successful bidder is solely liable to fully indemnify and keep NCERT indemnified against all losses/penalties/awards/decrees arising out of litigation/claims/application initiated against the NCERT on account of acts of omission/commission attributable to the bidder and which are punishable under the provisions including the following Acts as amended from time to time. NCERT shall be vested with sole discretion to determine damages/ loss suffered on account of above from the dues payable from security deposit as performance Guarantee or from either the personal property of bidder or property owned by his firm/company by way of initiating suitable legal litigation against the bidder at any point of time.

CHAPTER - 6

SCHEDULE OF WORKS/ REQUIREMENTS

In this Schedule of Requirements, the details of supply of Educational School Kits to be provided by the bidder and also other information, instructions of the NCERT and instructions to the bidder and all such other aspects of the supply order are to be mentioned.

1. GENERAL INSTRUCTIONS

- 1.1 The bidder shall supply of Educational School Kits to the NCERT in the manner and as per the instructions of the NCERT.
- 1.2 The bidder shall ensure that all Educational School Kits are suitably packed in neat and clean condition.
- 1.3 The NCERT shall have the right to ask the bidder to remove the defective kits.
- 1.4 The bidder shall exercise adequate supervision to ensure proper supply of kits in accordance with the requirements.

2. PENALTIES

- 2.1 The firm will supply Educational School Kits to the NCERT within 90 days after receipt of order from the NCERT, failing which a penalty of 0.5 % per day of total order value subject to maximum of 20 days delay after expiry of normal delivery schedule shall be imposed by NCERT. Thereafter, supply order as well as empanelment will be cancelled without any communication.
- 2.2 If any complaint is received during the warranty period of 12 months, the firm will be required to replace the defective item(s) free of cost within 20 days; otherwise penalty of 0.5 % per day of total order value subject to maximum of 10% of order value would be imposed by NCERT.
- 2.3 In case of breach of any conditions of the contract and for all types of losses caused including excess cost due to engagement of other firms in the event of bidder's failure to supply requisitioned number of kits, the NCERT shall make deductions at double the rates on pro-rata basis from the bills preferred by the bidder or that may become due to the bidder under this or any other contract or from the security deposit or may be demanded from him/her to be paid within seven days to the credit of the NCERT.

CHAPTER -7
PROFORMA FOR TECHNICAL BID

1.	Name of Agency	
2.	Profile of the agency	
3.	Name of Proprietor/Partner/Director	
4.	Full Address of Registered Office	
	a. Telephone No. b. Fax No. c. E-mail Address	
5.	Full Address of Operating/Branch Office	
	a. Telephone No. b. Fax No. c. E-mail Address	
6.	Banker name of the firm with Full Address (copy of certificate may be enclosed)	
7.	Registration number of the firm where the manufacturing unit is situated under Factories Act.	
8	1. Excise registration certificate/ Declaration for last three years i.e. 2016-2017, 2017-2018& 2018-2019 2. Sales Tax/VAT Registration Number 3. Service tax certificate and declaration for last three years i.e. 2016-2017, 2017-2018 & 2018-2019 4. GST Registration number 5. Pollution Under Control certificate	
9.	PAN Number of the firm. (Attach self- attested copy of PAN card of the firm). However PAN card in the name of proprietor can be considered subject to production of ITR acknowledgment and computations of taxable income duly certified by the C.A.	

10.	Minimum Average Annual turnover of the firm along with the audited balance sheet for the last three financial years i.e. 2016-17, 2017-18 & 2018-19 as per the table given in the Chapter - 3 Point 2 (f)(Copy of the annual turnover for last three financial years duly certified/ audited by Chartered Accountant to be attached).	2016-17		
		2017-18		
		2018-19		
11.	The self-attested copy of ITR of the firm for last three financial years (not assessment year) must be enclosed.	2016-17	2017-18	2018-19
12.	Cost of Tender document for Rs. 3000/- in the form of BG/DD as mentioned in Chapter -1 point no. (ii).			
13.	EMD of the respective amount as mentioned in Chapter -2 table - 1 and Chapter - 3, at point no. 1.3, kit wise, should be enclosed.	(Yes or No)		
14.	Solvency certificate for an amount as applicable which should be issued from any nationalized /scheduled commercial bank in the current financial year. As per Chapter - 3, point 2 (e).	(Yes or No)		
15.	Self-attested Scanned copy of minimum five years' experience in the field of supply of Educational Kits/Scientific instruments. Out of the total supply made during the five years in the past, 50% of the minimum annual turnover should be from Govt. sector/Public sector/Autonomous Bodies under GOI/States with satisfactory performance, for which documentary proof should be attached (as per Chapter -3 at point no. 2 (d)).	(Yes orNo)		
S. No.	Name of Organization	Supply Order number & Date	Amount of Contract	Nature of Supply

16.	Undertaking regarding acceptance of all the terms and conditions of the tender document. as per Annexure - A			Yes or No
17.	Undertaking regarding non-blacklisting of the firms as per Annexure - B			Yes or No
18.	Details of manufacturing unit/ Industrial house having minimum space as applicable (Copies of manufacturers/Industrial houses dealing in the trade showing area to be enclosed)			Yes or No

Signature of authorized person

Date:

Name:

Place:

Seal:

CHAPTER -8

DECLARATION

1. I/We, _____ Son/Daughter/Wife of Shri. _____ Proprietor/Director/authorized signatory of the Agency mentioned above, is competent to sign this declaration and execute this tender document;
2. I/We have carefully read and understood all the terms and conditions of the tender and undertake to abide by them;
3. The information/documents furnished along with the above application are true and authentic to the best of my knowledge and belief. I / we, am / are well aware of the fact that furnishing of any false information / fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.

Signature of authorized person

Date:

Full Name:

Place:

Seal:

CHAPTER – 9
PROFORMA FOR FINANCIAL BID

The firm is required to submit the price bid In the following format on firm's Letter which should be addressed to the Head, DEK, NCERT, Sri Aurobindo Marg, New Delhi.

S. NO	TYPE OF EDUCATIONAL SCHOOL KIT	DETAILS OF SPECIFICATION	TOTAL PRICE INCLUDING GST, TRANSPORTATION, LOADING, UNLOADING & ANY OTHER CHARGES etc IN INR PER KIT
1	Upper Primary Science Kit with microscope (UPSK)	Annexure - 1	Rs...../- (in words.....)
2	Upper Primary Science Kit without microscope (UPSK-WM)	Annexure – 1	Rs...../- (in words.....)
3	Upper Primary Mathematics kits (UPMK)	Annexure -2	Rs...../- (in words.....)
4	Secondary Science Kit with Microscope (SSK)	Annexure -3	Rs...../- (in words.....)
5	Secondary Science Kit without Microscope (SSK-WM)	Annexure -3	Rs...../- (in words.....)
6	Secondary Mathematics Lab kit (SMLK)	Annexure -4	Rs...../- (in words.....)
7	Molecular Model Kit (MMK)	Annexure -5	Rs...../- (in words.....)
8	Senior Secondary Physics Lab Kit (HSPLK)	Annexure -6	Rs...../- (in words.....)
9	Senior Secondary Chemistry Lab Kit (HSCLK)	Annexure -7	Rs...../- (in words.....)
10	Senior Secondary Biology Lab kit with Microscope (HSBLK)	Annexure -8	Rs...../- (in words.....)
11	Senior Secondary Biology Lab kit without Microscope (HSBLK-WM)	Annexure -8	Rs...../- (in words.....)
12	Senior Secondary Mathematics Lab Kit (HSML)	Annexure – 9	Rs...../- (in words.....)
13	Early School Mathematics Learning Kit (ESML)	Annexure -10	Rs...../- (in words.....)
14	Resource Package for Awareness in ECCE (English and Hindi)	Annexure -11	Rs...../- (in words.....)
15	Raindrops: Primary English Learning Kit	Annexure -12	Rs...../- (in words.....)
16	Primary Urdu Learning Kit (PULK)	Annexure -13	Rs...../- (in words.....)
17	ECE: Play and Learn Kit	Annexure -14	Rs...../- (in words.....)

Authorized Signatory of the Firm with rubber stamp of the firm

CHAPTER -10

FORM-I

CONTACT DETAILS FORM GENERAL DETAILS OF BIDDER

1. NAME OF THE FIRM/AGENCY:
2. NAME AND DESIGNATION OF THE AUTHORISED REPRESENTATIVE
:.....
3. COMMUNICATION ADDRESS :
.....
.....
4. PHONE NO./MOBILE NO :
5. FAX :.....
6. E-MAIL ID :

DETAILS OF THE BIDDER'S REPRESENTATIVE

1. NAME OF THE CONTACT PERSON :
2. DESIGNATION :
3. PHONE NO. :
4. MOBILE NO. :
5. E-MAIL ID :

(To be submitted on the letter Head of the Firm/Bidder)

UNDERTAKING

1. I/We, the undersigned certify that I/We have gone through the terms and conditions mentioned in the bidding document and undertake to comply with them.
2. The rates quoted by me are valid and binding upon me for the entire period of contract and it is certified that the rates quoted are the lowest rates as quoted in any other institution in India.
3. I/We give the rights to the competent authority of the National Council of Educational Research & Training to forfeit the Earnest Money/Security or Performance Security deposited by me/us in case of breach of conditions of the contract.
4. I/We hereby undertake to supply Educational School Kits as per the directions given in the tender document/contract agreement.

Signature of the Authorized Signatory

Date :

Place :

**Designation:
(Office seal of the Bidder)**

FORM-II

EMD/BID SECURITY BANK GUARANTEE FORM

No..... Date.....

The Secretary (here in after called "The Owner")
National Council of Educational Research & Training
Sri Aurobindo Marg,
New Delhi - 110016

Whereas M/s..... (Hereinafter called "the bidder") has submitted its bid dated.....for empanelment of firms vide Tender No./dated.....KNOW ALL MEN by these presents that I/WEof having our registered office at

THE CONDITIONS of the obligations are:

1. If the Bidder withdraws his bid during the period of bid validity specified by the Bidder on the Bid form
2. If the Bidder, having been notified of the acceptance of his bid by the Owner, during the period of bid validity
 - a. Fails or refuses to execute the Contract, if required;
OR
 - b. Fails or refuses to furnish the Performance Security, in accordance with the instructions to Bidders.
OR
 - c. Fails or refuses to perform their duties fully or partially to the satisfaction of the Owner.

I/We undertake to pay the Owner up to the above amount upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand the Owner will not justify the demand of the amount claimed by it is due to it owing to the occurrence of any one or both of the conditions, specifying the occurred condition or conditions.

This guarantee will remain in force as specified in Chapter No-3 (Instruction of the Bidders) of the Bid document up to 180 days and including thirty (30) days after the period of bid validity and any demand in respect thereof should reach the Bank not later than the specified date/dates.

Name & Signature of witness
Authority
Address of witness

Signature of the Bank

Name
Signed in capacity of
Full address of Branch
Tel No. of Branch
Fax No. of Branch

FORM-III

CONTRACT AGREEMENT NO...../ DATED

THIS AGREEMENT is made on between **The Secretary, National Council of Educational Research & Training** (hereinafter referred to as "NCERT" which expression unless excluded or repugnant to the context be deemed to include his successors and assigns), and whose principal place of office is at Sri Aurobindo, Marg, New Delhi of the One Part,

AND

M/s..... having its registered office at.....(Hereinafter referred to as "the Contractor") which expression shall unless excluded by or repugnant to the context be deemed to include his successors, heirs, executors, administrators, representatives and assigns) of the other part for providing human resource services to NCERT.

NOW THIS AGREEMENT WITNESSTH as follows:

- I. **WHEREAS** the NCERT invited bids through open tender, vide Notice Inviting Tender dated 11/12/2020 for "**the supply of Educational School Kits to NCERT under Tender No. 1-5/2019-20/DEK/Kits.**"
- II. **AND WHEREAS** the Contractor submitted his bid vide..... in accordance with the procedure mentioned along with the bid documents and represented therein that it fulfills all the requirements and has resources and competence to provide the requisite services to the NCERT
- III. **AND WHEREAS** the NCERT has selected **M/s.....** as the successful bidder ("the Contractor") pursuant to the bidding process and negotiation of contract prices, awarded the **Letter of Intent (LOI) No.**, to the Contractor on for a total sum of Rs. (Rupees Only).
- IV. **AND WHEREAS** the NCERT desires that the Supply of Educational School Kits (as defined in the Bidding Document) be provided, performed, executed and completed by the Contractor, and wishes to appoint the Contractor for carrying out such services.
- V. **AND WHEREAS** the Contractor acknowledges that the NCERT shall enter into contracts with other contractors / parties for the Supply of Educational Kits of its premises in cases the Contractor falls into breach of the terms and conditions as stipulated in the Tender Document and shall waive its claim whatsoever in this regard.

- VI. **AND WHEREAS** the terms and conditions of this Contract have been fully negotiated between the NCERT and the Contractor as parties of competent capacity and equal standing.
- VII. **AND WHEREAS** the Contractor has fully read, understood and shall abide by all the terms and conditions as stipulated in the Tender Documents for providing human resource services in the NCERT's premises and / or F.O.R India, failing which the Contract is liable to be terminated at any time, without assigning any reasons by the NCERT.
- VIII. **AND WHEREAS** the Contractor shall be responsible for payment of Service Tax with Central Excise and Taxation Department. The documentary proof of the same must be submitted within one month of payment of particular bill for the amount of Service Tax Charged in the said bill
- IX. **AND WHEREAS** the NCERT and the Contractor agree as follows:
1. In this Agreement (including the recitals) capitalized words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
 2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
 - a. The Letter of Intent (LoI) issued by the NCERT.
 - b. Notice to Proceed (NTP) issued by the NCERT
 - c. The complete Bid, as submitted by the Contractor.
 - d. The Addenda, if any, issued by the NCERT.
 - e. Any other documents forming part of this Contract Agreement till date.
(Performance Bank Guarantee, Bank Guarantee)
 - f. Charges – Schedule annexed to this Article of Agreement
 - g. Supplementary Agreements executed from time to time.
 3. Any changes/modifications/amendments required to be incorporated in the Contract Agreement at a later stage shall be discussed and mutually agreed by both the parties and such supplementary agreements shall be binding on both the parties and shall form the part of this contract agreement.
 4. This Contract shall be governed by and construed in accordance with the laws of India. Each Party hereby submits to the jurisdiction as set out in the Dispute Resolution Procedure in the Conditions of Contract.
- X. **IN WITNESS WHEREOF** the parties hereto have caused this Agreement to be executed in accordance with the laws of India on the day, month and year indicated above.

Signed on behalf of the Contractor

Signed on Behalf of NCERT

(Authorized Signatory)

(Authorized Signatory)

FORM-IV

PERFORMANCE BANK GUARANTEE

(To be executed on non-Judicial stamped paper of an appropriate value)

Date:.....

Bank Guarantee No:

Amount of Guarantee :

Guarantee Period: From : to.....

Guarantee Expiry Date :

Last date of Lodgment :

WHEREAS National Council of Educational Research & Training having its office at Sri Aurobindo Marg, New Delhi (hereinafter referred to as "**The Owner**" which expression shall unless repugnant to the context includes their legal representatives, successors and assigns) has executed a binding to the contract on [*Please insert date of acceptance of the letter of acceptance (LoA)*]

("Contract") with [*insert name of the Successful Bidder*](hereinafter referred to as the "**Contractor**" which expression shall unless repugnant to the context include its legal representatives, successors and permitted assigns) for the performance, execution and providing of human resource services shall have the meaning ascribed to it in the Contract] based on the terms & conditions set out in the Tender Documents number [*insert reference number of the Tender Documents*] dated [*insert date of issue of Tender Documents*].....and various other documents forming part thereof.

AND WHEREAS one of the conditions of the Contract is that the Contractor shall furnish to the Owner a Bank Guarantee from a scheduled bank in India having a branch at New Delhi for an amount equal to 7.5% (five percent) of the total Contract Sum (the amount guaranteed under this bank guarantee shall hereinafter be referred to as the "**Guaranteed Amount**") against due and faithful performance of the Contract including the performance bank guarantee obligation and other obligations of the Contractor for the supplies made and the services being provided and executed by under the Contract. This bank guarantee shall be valid from the date hereof up to the expiry of the Contract Period including any extension thereof.

AND WHEREAS the Contractor has approached [*insert the name of the scheduled bank*] (here in after referred to as the "**Bank**") having its registered office at [*insert the address*].....and at the request of the Contractor and in consideration of the promises made by the Contractor, the Bank has agreed to give such guarantee as hereunder:-

- (i) The Bank hereby undertakes to pay under this guarantee, the Guaranteed Amount claimed by the Owner without any further proof or conditions and without demur, reservation, contest, recourse or protest and without any enquiry or notification to the Contractor merely on a demand raised by the Owner stating that the amount claimed is due to the Owner under the Contract. Any such demand made on the Bank by the Owner shall be conclusive as regards the amount due and payable by the Bank under this bank guarantee and the Bank shall pay without any deductions or set-offs or counterclaims whatsoever, the total sum claimed by the Owner in such Demand. The Owner shall have the right to make an unlimited number of Demands under this bank guarantee provided that the aggregate of all sums paid to the Owner by the Bank under this bank guarantee shall not exceed the Guaranteed Amount. In each case of demand, resulting to change of PBG values, the Owner shall surrender the current PBG to the bank for amendment in price.
- (ii) However, the Bank's liability under this bank guarantee shall be restricted to an amount not exceeding [*figure of Guaranteed Amount to be inserted here*](.....only)
- (iii) The Owner will have the full liberty without reference to the Bank and without affecting the bank guarantee to postpone for any time or from time to time the exercise of any powers and rights conferred on the Owner under the Contract and to enforce or to forbear endorsing any powers or rights or by reasons of time being given to the contractor which under law relating the Surety would but for the provisions have the effect of releasing the surety.
- (iv) The rights of the Owner to recover the Guaranteed Amount from the Bank in the manner aforesaid will not be affected or suspended by reasons of the fact that any dispute or disputes have been raised by the Contractor and / or that any dispute(s) are pending before any office, tribunal or court in respect of such Guaranteed Amount and/ or the Contract.
- (v) The guarantee herein contained shall not be affected by the liquidation or winding up, dissolution, change of constitution or insolvency of the Contractor but shall in all respects and for all purposes be binding and operative until payment of all money due to the Owner in respect of such liability or liabilities is affected.
- (vi) This bank guarantee shall be governed by and construed in accordance with the laws of the Republic of India and the parties to this bank guarantee hereby submit to the jurisdiction of the Courts of New Delhi for the purposes of settling any disputes or differences which may arise out of or in connection with this bank guarantee and for the purposes of enforcement under this bank guarantee.

- (vii) All capitalized words used but not defined herein shall have the meanings assigned to them under the Contract.
- (viii) NOTWITHSTANDING anything stated above, the liability of the Bank under this bank guarantee is restricted to the Guaranteed Amount and this bank guarantee shall expire on the expiry of the Warranty Period under the Contract.
- (ix) Unless a Demand under this bank guarantee is filed against the Bank within six (6) months from the date of expiry of this bank guarantee all the rights of the Owner under this bank guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities hereunder.
- (x) However, in the opinion of the Owner, if the Contractor's obligations against which this bank guarantee is given are not completed or fully performed by the Contractor within the period prescribed under the Contract, on request of the Contractor, the Bank hereby agrees to further extend the bank guarantee, till the Contractor fulfills its obligations under the Contract.
- (xi) We have the power to issue this bank guarantee in your favour under Memorandum and Article of Association and the Undersigned has full power to do so under the Power of Attorney dated [*date of power of attorney to be inserted*].....granted to him by the Bank.

Date:

Bank

Corporate Seal of the Bank

By its constituted Attorney Signature of a person duly authorized to sign on behalf of the Bank

Undertaking for Non- Blacklisting / Debarment of the Firm/Agency

UNDERTAKING BY THE AGENCY IN NON-JUDICIAL STAMP PAPER OF RS.100/-

I,.....on behalf of(Name of the firm/agency) hereby declare that there is no legal suit/criminal case pending or contemplated of legal notice having been served to this effect against the Proprietor of the Agency or any of its Directors (in case of Pvt. Ltd. Company) on grounds of moral turpitude or for violations of any of the laws in force and company is not black listed by any Government Organization.

My firm/agency has not conducted any default or has been declared as a defaulter by any Central/State/UT Government department or any Organisation , ever. My firm/agency has not misled the facts in any Tender/Rate Contract with any Central/State/UT Government department or any Autonomous Organisation. My firm/agency or our representative has not been involved in any kind of coercive /bribery with any Central/State/UT Government department or any Autonomous Organisation.

I,.....on behalf of(Name of the firm/agency) hereby declare that our organization or the staff to be provided has no business or direct family relationship with member(s) NCERT.

I,.....on behalf of(Name of the firm/agency) hereby undertake that all relevant statutory requirements will be complied with.

I,.....on behalf of(Name of the firm/agency) understand that if the above declaration is found incorrect, the present engagement would be terminated and (Name of the firm/agency) would be debarred from any further engagement by NCERT ever.

Signature(s)

(Name & Address of the Tenderer(s)

With Official Seal)

Place:

Date:

Chapter - 11

Instructions for Online Bid Submission:

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules.

These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and

other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

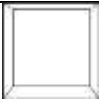
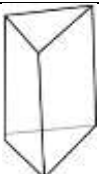
CHAPTER-12

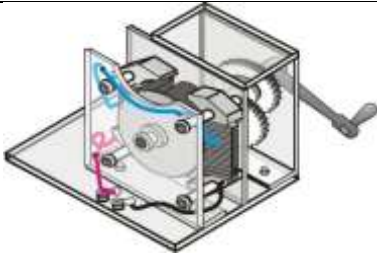
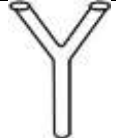
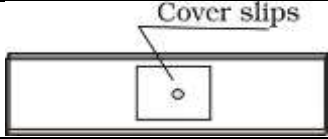
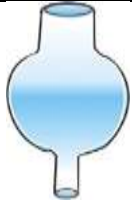
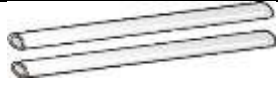
TECHNICAL SPECIFICATIONS

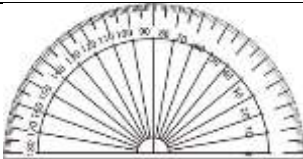
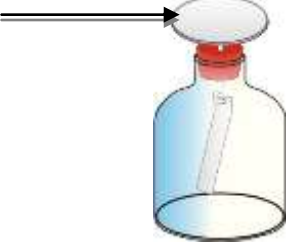
ANNEXURE -1

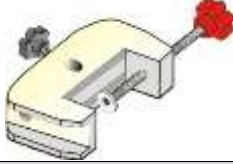
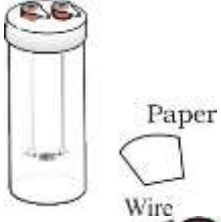
Upper Primary Science Kit (UPSK) Technical Specification

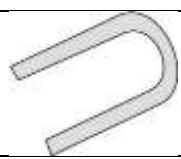
Sl. No.	Name of the Item		Technical Specification	Quantity
1.	Kit manual		Kit manual is supplied with the kit.	1 No.
2.	Kit box with carton of 6 ply		Main Body of 26 SWG and partitions of tin sheet. Doors will be fitted 15 mm above the ground level with main body. Right hand door and left hand door should have two racks. The rack partition should have guides (as per sample). The doors should have suitable piano hinges at duly spot welded/riveted etc. with main body. Provision for locking system (as per sample) & two folding type handles 6 mm dia. for carrying box. Provision for supporting rest for hanging doors to be made as per sample. Overall box size 470 mm x 450 mm x 280mm. As per sample.	01 No.
3.	Panel for Connections		<u>MDF Wooden box / plastic ABS</u> 170 mm x 140 mm, Taper 50 mm back and 25 mm front side, painted white, markings in black. <u>DC Voltmeter :</u> 0 - 20 V with resolutions of 0.4 V. 0 – 1 Amp. with resolutions of 20 mA. <u>Rectifier :</u> Four diode rectifier bridge circuit (Full wave rectification)	1 No.

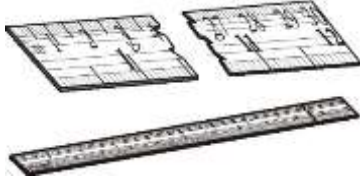
			of AC). <u>Panel connections :</u> For input / output etc. As per sample.	
4.	Light Emitting Diode (LED)		Standard white LED in plastic packet.	5 No.
5.	Laboratory Thermometer		Glass, alcohol filled, -10°C to 110 °C, graduation 1 °C with card board/plastic cover and cotton/sponge at both ends. As per sample.	1 No.
6.	Clinical Thermometer		Oral Clinical thermometer along with packing, graduation 95 °F - 108°F and 35 °C - 43°C. ISI mark. As per sample.	1 No.
7.	Spherical Plano Concave Lens and Double Convex Lens		Three Perspex bar pieces: Plano Concave Lens, Double Convex Lens and Plano Concave Lens. Each made from Perspex sheet of size 50 mm x 20 mm x 12 mm/15mm. As per sample.	1 set
8.	Perspex Plano Convex Cylindrical Lens		Dia = 28 mm, half of the diameter x 14 mm height. As per sample.	1 No.
9.	Square Glass Slab		Square glass slab, size 50 mm x 50 mm x 12 mm thick. As per sample.	1 No.
10.	Triangular Glass Prism		Good quality Glass Prism 25 mm equilateral triangle. As per sample.	01 No.

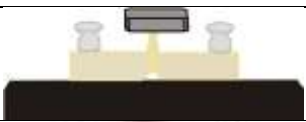
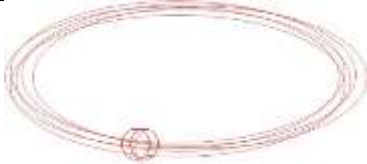
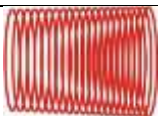
11.	Generator Assembly		Assembled in Perspex transparent sheet, stable body, overall height 130 mm, thick rectangular base 170 mm x 120 mm attached with two coils, output 15 V and 500 mA. Brass/Gun metal Bush on both ends in the centre, shaft and upper gear shaft. As per sample.	01 No.
12.	Boiling Tube		Borosilicate Glass, 90 mm height x 20 mm dia with cork.	02 Nos.
13.	Y-Tube		Borosilicate Glass tube, diameter 12 mm. Overall length 105 mm fitted with cork (To fit into item No.15 bell jar inner side). As per sample.	01 No.
14.	Cover slips		Thickness 0.2-0.3 mm approx. 18mm square glass pieces.	20 Nos.
15.	Bell Jar		Borosilicate 3.5 mm thick glass, neck inside dia. 18/19 mm x 20/22 mm height. Overall length 85/95 mm x inside dia. 55 mm with rim diameter 62/64 mm. To fit item No.13 from inner side, item no.28 from upper side and item no.73 from upper side mouth. As per sample.	01 No.
16.	Double mouthed flask		Borosilicate. Thickness 1.5 mm with one mouth dia. 26 mm x 25 mm height (with rim) and other dia. 06 mm x 28 mm length. Bulb outer dia. 48 mm with overall length 110 mm. Item no.63 fits into upper mouth. As per sample.	01 No.
17.	Glass Tube		Length 155 mm x outer dia. 06 mm, Soda glass, finished ends. As per sample.	01 No.

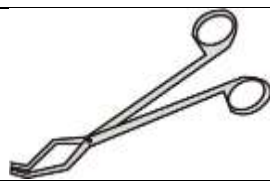
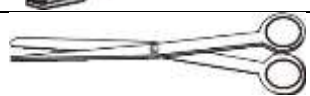
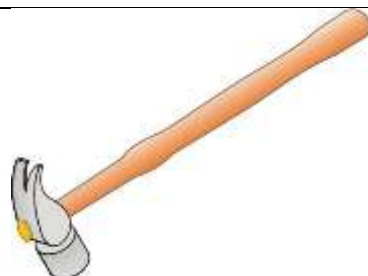
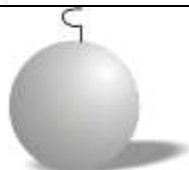
18.	Glazed Glass Plate		Glass plate size 100 mm x 100 mm x 2.5 mm/3mm. As per sample.	01 No.
19.	Double Concave Lens		Glass, Focal length 20 cm and dia. 50 mm. As per sample.	01 No.
20.	Double Convex lens		Glass, Focal length 20 cm and dia. 50 mm. As per sample.	01 No.
21.	Concave Mirror		Glass, Focal Length 20 cm, dia. 50 mm. As per sample.	01 No.
22.	Convex Mirror		Glass, Focal Length 20 cm, dia. 50 mm. As per sample.	01 No.
23.	Graduated Syringe		Standard, plastic, capacity 10ml. As per sample.	01 No.
24.	Half Protractor		Transparent, plastic, standard, 0 - 180°. As per sample.	01 No.
25.	Ping pong ball		dia 40 mm. As per sample.	01 No.
26.	Thermocol Ball		As per sample.	20 No.
27.	Transparent rubber plastic tube		Dia 8 mm x length 1 meter As per sample.	01 No.
28.	Electroscope Assembly		(i) Aluminium disc of dia. 52 mm and thickness 24 SWG (ii) aluminium rod dia. 03 mm and length 50 mm. fitted in center of disc (iii) rubber cork axial length 25mm. and dia. of smaller face 17 mm inserted in the aluminium rod with bigger face touching the disc. iv) Aluminium rod has a right angle bend of length 08 mm from the outer end. As per sample.	01 set
29.	Plastic sheet HDPE		Size 100 mm x100 mm x 3 mm.White milky.	01 No.

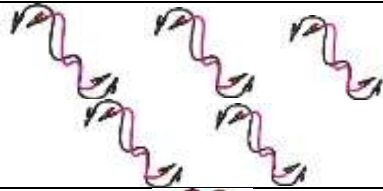
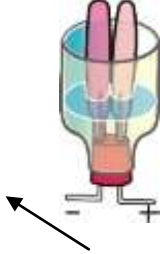
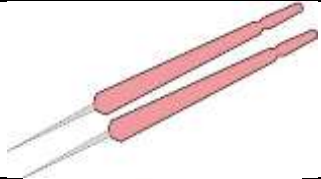
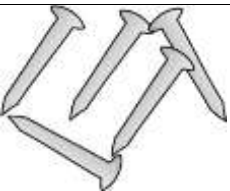
			As per sample.	
30.	Plain mirror strips		Good quality, 150 mm x30 mm x2mm. As per sample.	03 Nos.
31.	Magnifying glass		Optical glass, focal length 120 mm, with plastic handle with case. As per sample.	02 Nos.
32.	Glass slides		Standard plain glass slide. As per sample.	10 No.
33.	Permanent Glass slides		Hydra showing budding. Packed in plastic case. <i>Slide should be of good quality</i> As per sample.	01 No.
34.	Permanent Glass slide		Amoeba showing Binary Fission. Packed in plastic case. <i>Slide should be of good quality</i> As per sample.	01 No.
35.	Permanent Glass slide		Paramecium Packed in plastic case. <i>Slide should be of good quality</i> As per sample.	01 No.
36.	'G' Clamp		50 mm jaws, maximum opening 40 mm, with two locking screws and holes. HDPE material. As per sample.	02 Nos.
37.	Glass Rod		Length 150mm, dia. 06/07 mm. As per sample.	02 Nos.
38.	Fuses & Model showing heating effect of current		Resistance wire enclosed in transparent plastic container of dia. 25 mm and height 50 mm and eureka wire 40 SWG. As per sample	01 No.
39.	Ray Streak Box		U shape mild sheet of 24 SWG. Size of the front face: 80 to 100 mm x 70 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. butt welded to the front face. Size of the M shape window cover: 30 mm x 40 mm. Front face, projected to the height of	01 set

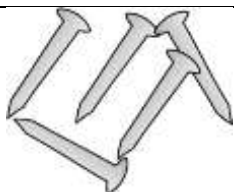
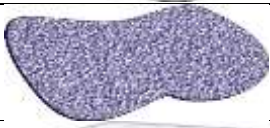
			15 mm having 3 slits of 0.75 mm thickness starting from bottom. Height of slits 30 mm, second slits at the centre. Distance between the slits 5 mm. Screw type bulb holder spot welded from inside of front face at the centre of the window. Having one bulb of 3.2 V, bulb to be projected in the windows of front face. Complete apparatus painted in black colour. As per sample.	
40.	9 Volt Battery		As per sample.	02 No.
41.	Rubber bands		As per sample	30 Nos.
42.	Rubber suckers		50mm diameter. As per sample.	02 Nos.
43.	Rubber Cork		Nos. 2,3,4,5 and 6. As per sample.	02 each
44.	Thin rubber sheet		100 x 100 x 2 mm As per sample.	01 No.
45.	Magnetic Compass		Metal case, polystyrene transparent top, magnetized needle with north marked red and south marked blue, 50 mm size. As per sample.	01 No.
46.	U shape Magnet		Arm length 50 mm, N and S poles to be marked. Alnico As per sample.	01 No.
47.	Bar Magnet		Size 75 mm x 12 mm x 08 mm,	02 No.

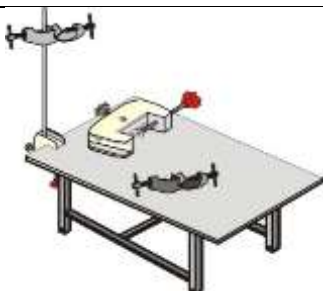
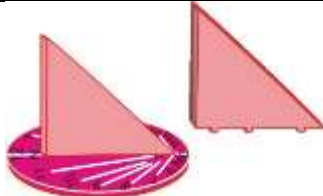
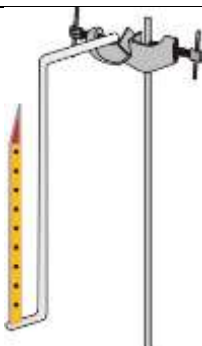
			red colour N and S pole mentioned. Alnico As per sample.	
48.	Cylindrical Magnet		Dia. 16 mm and length 25 mm. Ferrite As per sample.	01 No.
49.	Ring Magnet		O.D. 18 mm and thickness 3 mm. Ferrite As per sample.	01 No.
50.	Disc Magnet		Dia. 35 mm and 8 mm thick. Ferrite As per sample.	01 No.
51.	Spirit Lamp		Steel body along with brass wick holder dia 65mm, height 50mm As per sample.	01 Nos.
52.	Colour Disk		Thick ivory white card sheet of diameter 100 mm, with seven colours sectors and pasted on generator assembly wheel. (1st Sector) - 70° - Lemon Yellow No. 121 (2nd Sector) - 65° - Light Green No. 165 (3rd sector) - 45° - Turquoise Blue No. 163 (4th Sector) - 40° - Prussian Blue No. 149 (5th Sector) - 45° - Mauve No. 161 (6th Sector) - 50° - Orange No. 143 (7th Sector) - 45° - Poster Red No. 116 Total : 360° , As per sample.	01 No.
53.	Aluminium Ruler cum Lever		Anodized Aluminium Ruler 29 mm x 300 mm x 1.5 mm. Marking in inch, cm and mm (smallest division 1/10" and 01 mm respectively). Graduation printed in black. With holes (diameter 2.5 mm) at 3 cm intervals. As per sample.	01 No.

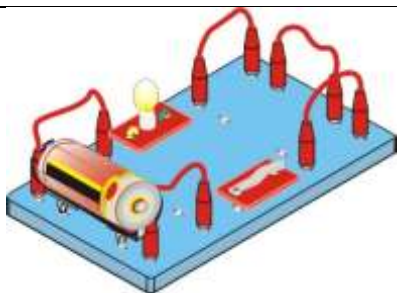
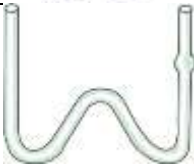
54.	Plug Key		One way plug key (Brass), base 80 mm x 55 mm. As per sample.	01 No.
55.	Copper Wire		100 cm long, thickness 24 SWG. As per sample.	01 No.
56.	Copper Strip		80mm x 5 mm x 1mm As per sample.	01 No.
57.	Zinc Strip		80mm x 5 mm x 1mm As per sample.	01 No.
58.	Magnesium Ribbon Roll		Fine Quality role. 25g. As per sample.	01 No.
59.	Test tube holder		Length 200 mm to hold the test tubes upto 10 mm dia and one for 20 mm dia boiling tube. As per sample.	01 each
60.	Rods with holder for conduction of heat		Total length of holder 215 mm/220 mm with plastic/wooden handle at one end and brass pipe I.D. 6.3mm x 50mm at another end forming T shape. M.S rod & aluminum rod shall be 200mm length. And Dia. 6mm grooved on rod ten equal segments. As per sample.	01 Set
61.	Tuning Fork		Mild Steel Chapter 06 mm x 3.4 mm, prongs 110 mm long, frequency 256 Hz. As per sample.	01 No.
62.	Slinky		Steel Wire Spiral roll, outer dia. 52 mm and close size 68mm to 70mm. As per sample.	01 No.

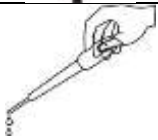
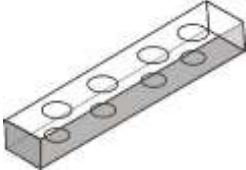
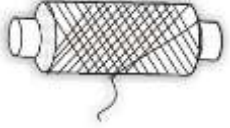
63.	Deflagrating Spoon		Dia. 12 mm, MS Sheet Katory welded with 02 mm dia. MS wire. Overall height 165 mm, along with cork (to fit into item no. 16) of smaller dia 24mm, bigger dia 28.5mm and length 26.5mm As per sample.	01 No.
64.	Periscope (Frame with mirror)		Hollow PVC pipe dia 64mm and ID 60mm length 250mm and cut at opposite ends. Taper shape upto 65mm and both end closed with plastic piece upto cut position and both end to fit 50mm plane mirrors with rotatable frame. As per sample.	01 No.
65.	Scalpel		Overall length 140 mm/150 mm cutlery steel, blade tempered (standard). As per sample.	01 No.
66.	Tongs pair		Dia 05 mm, overall length 160 mm, chrome plated. As per sample.	01 No.
67.	Surgical Scissor		125 mm, one prong blunt and other pointed, standard. As per sample.	01 No.
68.	Claw hammer with handle		Forged, approximate weight 225 gm with wooden handle. As per sample.	01 No.
69.	Steel Ball		Steel Ball with a hook, dia. 19/20 mm. As per sample.	01 No.
70.	Steel Wire (Sitar String)		Steel, length 100 cm, thickness 24 SWG. As per sample.	01 No.
71.	Banana plug connecting wire		Standard with two way connection. Two red and two black wires.	02 sets

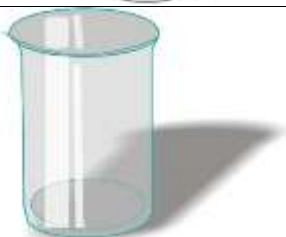
			As per sample.	
72.	Crocodile Clips		Clips 38 mm, Plated, standard flexible wire 50 cm long. Each set two wire. As per sample.	05 sets
73.	Stainless steel electrode with cork		Rubber cork of axial length 25.5 mm, smaller face dia 17mm, bigger face dia 25 mm, fitted with two stainless steel electrodes of length 70 mm and thickness 02 mm. Both electrodes have 90 degree bent of length 10mm. (To fit into item No. 15 bell jar). As per sample.	01 sets
74.	Knife		100 mm x 1.5 mm, hardened steel, with wooden/plastic handle. As per sample.	01 No.
75.	Screw driver		100 mm long, hardened, with plastic handle dia. 20/25 mm. As per sample.	01 No.
76.	Bottle opener with cork screw		Standard, overall length 140 mm, with cork. As per sample.	01 No.
77.	Shaving Blade		Standard packet of five blades. As per sample.	01 packet
78.	Dissecting Needle		Standard, length 110 mm, with plastic handle. As per sample.	02 Nos.
79.	Iron filings		Packed in 15 dia vial. As per sample.	20 g
80.	Iron Nails		Length 38 mm, 15 SWG As per sample.	10 Nos.

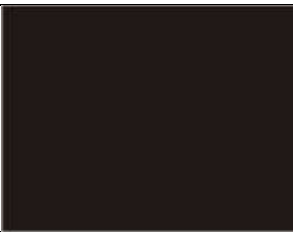
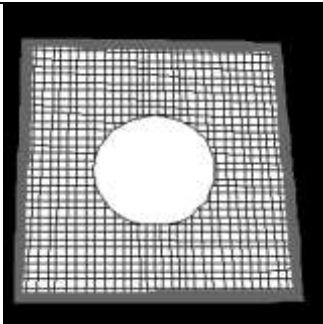
81.	Iron Nails		Length 25 mm, 15 SWG As per sample.	10 Nos.
82.	Emery paper		Standard, 100 number. As per sample.	1 sheet
83.	Sand paper		Standard, 60 and 120 number. As per sample.	1 sheet each
84.	Candle		Size 200X15 mm.	02 No.
85.	Filter Paper		Ordinary. Circular of dia. 100 mm As per sample.	10 Nos.
86.	Plastic Strip		Plastic strip 200 mm x 25 mm x 3mm and one side pasted woolen cloth 100 x 25mm. As per sample	01 No.
87.	Silk cloth		Size 200 mm x 200mm. As per sample.	01 No.
88.	Woolen Cloth		Size 200 mm x 200mm, dark colour. As per sample.	01 No.
89.	Thermocol sheet		Size 100 mm x 100mm x 25 mm. As per sample.	01 No.
90.	1 c.c. spoon		Specification : HDPE, white, 1cm cubic and overall length 100 mm. As per sample.	02 Nos.
91.	Spring balance		A.B.S , open type, capacity 250 g graduation in steps of 10 g on one side and Newton's on the other side. As per sample.	01 No.
92.	Decimeter cube vessel		Transparent polystyrene. Inside dimension 100 mm x 100 mm x 100 mm top open, 9 lines at 1 cm distance on one side 100 equal 1 cm squares on the other. As per sample.	01 No.

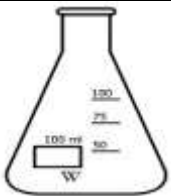
93.	Laboratory Stand 1) Boss head 2) Clamp		MS rod dia. 10 mm x 375 mm long, MS base, CI Boss head and aluminium clamp. As per sample	01 each
94.	Sun dial		Plastic base dia. 100 mm-110 mm x 3 mm with graduation and base should be milky white colour. As per sample.	01 set
95.	Pulley with frame & Rod		Plastic pulley dia. 50 mm attached with frame 75 mm x 17 mm of MS 24 SWG and L type rod of dia. 6mm, overall length 115mm bent at 15 mm at 90 degree. As per sample	02 Nos.
96.	Aluminium wire and pointer		- Aluminium wire 3 mm dia x 45 cm length - Pointer with wire of dia. 0.5 mm and length 60mm fitted in the centre of pointer. As per sample.	01 set
97.	Bimetallic strip		Frame – MS Rod, 6 mm dia. with MS and brass strips joined, As per sample.	01 No.
98.	Set of four resistors 5 ohm, 10 ohm (2 Nos.) 20 ohm		15 mm x 15 mm x 125 mm with nichrome wire. Resistor, embedded in plastic case. As per sample.	01 set

99.	Circuit Board		Complete base of plastic,battery holder, bulb holder with switch, banana sockets and lower side all joined with Patti and copper wire.Two bulbs extra As per sample.	01 set
100.	Measuring cylinder		Plastic, transparent with built in base, 100mL ,graduation (least count 1 mL). As per sample.	03 No.
101.	Plastic Boxes		1. 220 mm x125 mm x85 mm. 2. 172/175 mm x130 mm x70mm As per sample.	1 each
102.	Litmus paper		Red and Blue colour As per sample.	5 booklets each
103.	Plastic Funnel		Plastic, transparent top dia, 50 mm As per sample.	03 No.
104.	Micro Test Tube 4 mL		Borosilicate glass, dia. 10 mm x 45 mm height with rim. As per sample.	10 Nos.
105.	W Tube		Borosilicate glass, 2 mm thick x 8 mm dia. having length of arm 70-75 mm with wide mouth in one arm. As per sample	05 Nos.

106.	China Dish		Outer diameter 70 mm/75 mm. As per sample	01 No.
107.	Micro Spatula		Stainless steel 100 mm length. As per sample.	01 No.
108.	Forceps		Stainless steel 100 mm long pointed As per sample.	02 Nos.
109.	Micro Test Tube brush		Soft hairs for 4mL test tube cleaning. As per sample.	01 No.
110.	Tripod Stand		Height 100mm, cast iron ,top 7 cm x7 cm x7cm triangle, legs dia 4mm. As per sample.	01 No.
111.	Pasteur Pipette (Dropper)		Low density poly ethylene (LDPE) capacity 3 ml with screw type and nozzle. As per sample.	10 Nos.
112.	Dispensing Bottle		Low Density Poly Ethylene (LDPE) capacity 15 ml . As per sample.	20 Nos.
113.	Plastic Vials		High Density Poly Ethylene (HDPE), height 55 mm, dia 15 mm. As per sample.	15 Nos.
114.	Micro Test Tube Stand		Acrylic Plastic molded, size 100 mm x 27 mm x 20 mm, 04 blind holes to hold Micro Test Tubes, depth of hole 15mm. As per sample.	02 Nos.
115.	Rubber Balloons		5 small and 5 big As per sample.	01 packet
116.	Cotton Thread		Reel in white colour. As per sample.	01 No.

117.	Wash Bottle		LDPE, capacity 125 mL As per sample.	01 No.
118.	Petri dish		Soda glass dish outer dia. 80mm x 15 mm depth. As per sample.	01 No.
119.	Beaker (50mL)		Borosilicate glass, capacity 50 mL, height 56 mm, diameter 42 mm with rim. As per sample.	03 No.
120.	Watch glass		Soda glass, diameter 50 mm. As per sample.	01 No.
121.	Mirror/Lens stand		Wooden / Plastic mirror stand 120mm x 30mm x 75 mm. height with base. As per sample.	01 No.
122.	Cotton Roll		Weight: 50 gm As per sample.	01 No.
123.	Single holed cork		Standard, size no.7, holedia 6mm. As per sample.	02 Nos.
124.	Plastic straw/glass tubes		130-150mm and dia.6mm. As per sample.	05 Nos.
125.	Transparent zipper plastic bag		MediumSized,200mmx 200mm. As per Sample	02 Nos.

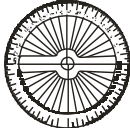
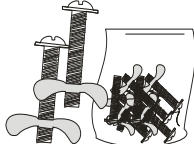
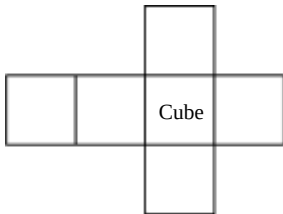
126.	Thick Black paper		10cm x10cm As per sample.	04 Nos.
127.	Muslin cloth		15cm x15cm As per sample.	04 Nos.
128.	Iodine solution		Packed in LDPE dispensing bottle of 60 ml. As per sample.	01 No.
129.	Alum crystals		Packed in plastic container-50 gm As per sample.	01 No.
130.	Pressure table		It may include a piece of soft wood (10cm x 10cmx10/12mm) with four holes (about 0.1 cm dia.) near four corners. Provide four nails each of 8/10cm length. The head of nails should be broad. As per sample.	01 set
131.	Wire Gauze		100mm x100mm with frame As per sample.	02 Nos.

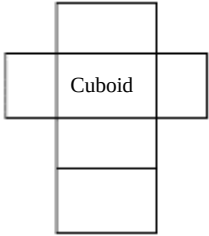
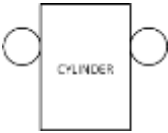
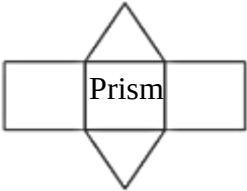
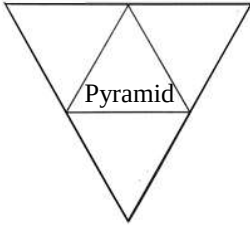
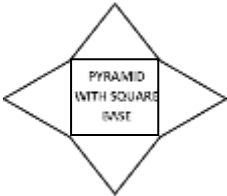
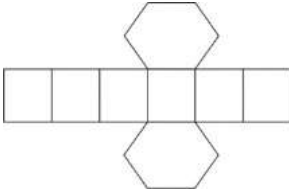
132.	Compound Microscope (optional)		ISI based microscope: Metal Body, overall height approx. 320 mm, base 125 mm x 200 mm. Achromatic good quality lenses. Two Objectives: 10X & 45X. Two Eyepieces: 10X & 15X having coarse fine motion & fixed condenser. As per sample.	01 No.
133.	Yeast Powder		Packed in Plastic Container, 20g	01 No.
134.	Aluminium Paper		10cm x 15cm.	01 No.
135.	Split Cork no. 6		As per sample.	01 No.
136.	Conical Flask 100 ml.		Borosilicate glass graduated 100mL As per sample.	01 No.
	Visual Cards Size 21 cm x 30 cm plastic coated card As per given below:			
137.	Amoeba		Standard, as per sample.	1 No.
138.	Hydra		Standard, as per sample.	1 No.
139.	Spirogyra		Standard, as per sample.	1 No.
140.	Rhizopus		Standard, as per sample.	1 No.
141.	Bacteria		Standard, as per sample.	1 No.
142.	Yeast		Standard, as per sample.	1 No.
143.	Nostoc		Standard, as per sample.	1 No.
144.	Anopheles (mosquito)		Standard, as per sample.	1 No.
145.	Peel of leaf showing		Standard, as per sample.	1 No.

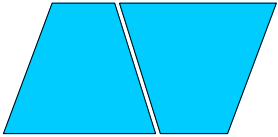
	stomata			
146.	Life cycle of silk moth		Standard, as per sample.	1 No.
147.	Stages in seed germination		Standard, as per sample.	1 No.
148.	Locomotion in earthworm and snail		Standard, as per sample.	1 No.
149.	Desert Plants		Standard, as per sample.	1 No.
150.	Aquatic Plants		Standard, as per sample.	1 No.
151.	Vegetative Propagation		Standard, as per sample.	1 No.
152.	Onion Peel		Standard, as per sample.	1 No.
153.	Binary Fission in Amoeba and Paramecium		Standard, as per sample.	1 No.

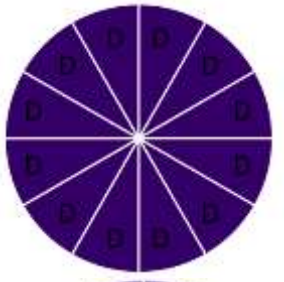
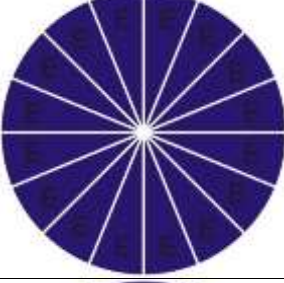
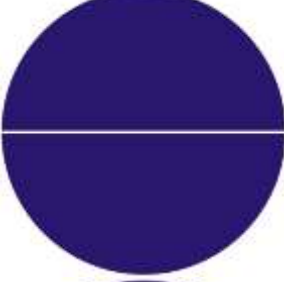
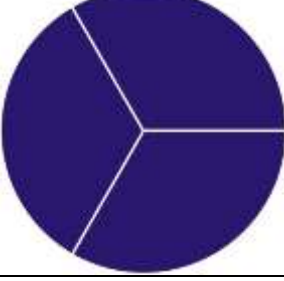
Upper Primary Mathematics Kit Technical Specification

S. No	Item Name	Figure/stapes	Specification	Quantity per Kit
1	Kit manual		Kit manual along with kit	1 No.
2	Kit box with carton		Plastic moulded box in Red colour. Overall size 340mmx340mm x height 110 mm with tolerance +/- 5mm and sheet thickness 5mm with two parts joined with two pines on side, all corners round shaped and top to bottom taper 10 degree approx. and handle for carrying with locking system. Inner side arrangement for partition with two pieces of tapered shaped plastic strips for partition and outer side etching. Whole box weight not less than one Kg. As per sample.	01 No.
3	Plastic Strip (Type I)		Transparent Perspex sheet or plastic moulded 262 x 20 x 2.7mm to 3mm, having 3 holes of dia 5 mm at a distance of 50 mm, 120 mm and 190 mm from one end. 4 slots of 25x5mm with both ends rounded to semi-circle. <u>Location of slots:</u> 1 st slot : 0-25mm, 2 nd slot : 70-95 mm 3 rd slot: 140-165mm, 4 th slot: 210-235 mm Marking should be in black colour. As per sample	04 Nos.
4	Plastic Strip (Type II)		Transparent plastic moulded or Perspex sheet 262 x 20 x 2.7mm to 3 mm, having 2 holes of dia 5 mm at a distance of 50 mm and 120 mm from one end. 3 slots x 5 mm width with both ends rounded to semi-circle. <u>Location of slots:</u> 1 st slot : 0-25 mm 2 nd slot : 70-95 mm	02 Nos.

			3 rd slot : 140-235 mm Marking should be in black colour. As per sample	
5	Half Protractor		Transparent, plastic, with dia 96 mm, thickness 2 mm. Double angle marking 0-180° With center hole of dia 4mm. on base line. As per sample	04 Nos.
6	Full Protractor	Marking at place to be 320° and 340° in place of 220° and 240° respectively 	Transparent, plastic, with diameter 125 mm and approx. thickness 2 mm. Double angle marking 0-360° With center hole dia 4mm. on center point. As per sample	03 Nos.
7	Fly nut and Screw		Mild steel, chromium plated of length 15 mm, metric thread (M4), round head washer type with fly nut. As per sample	12 Sets
8	(a) Geo-board		ABS material, 210 x 210 x 15 mm. One face has grids of 10 mm square with a hole of 2 mm dia x 7 mm deep. Corners of each square except boundary corners of the squares i.e. total squares 289. Other side four rounds with 2.5mm dia x 6mm height dowel inbuilt dia. Having 70, 110, 150, 190 mm each dia. 20 dowels inbuilt in each circle and one dowel inbuilt at centre point. As per sample	01 No.
	(b) Geo-board pins		2mm dia x length 15mm of aluminum pins with rounded head. As per sample	20 Nos.
9	Rubber bands		Standard item - assorted size thin rubber bands of good quality	10 Nos.
10	Paper nets for solid geometrical shapes a) Cube		350 GSM paper, UV / coated 60 x 60 x 60 mm cube As per sample	One each 01 No.

b) Cuboid		65 x 65 x 40 mm cuboid As per sample	01 No.
c) Cone		Cone with slant height of 120 mm and circular based diameter of 80 mm. As per sample	01 No.
d) Cylinder		Height: 130 mm and circular base diameter 60 mm. As per sample	01 No.
e) Prism		Height 100 mm, equilateral triangle of sides of 55 mm As per sample	01 No.
f) Pyramid (with triangular base)		4 equilateral triangles of sides 93 mm As per sample	01 No.
g) Pyramid with square base		Square base sides of 70 mm, equilateral triangle of sides 70 mm.	01 No.
h) Hexagonal Base Prism		Hexagon side 40mm & hexagonal base prism height 120mm. All the shapes plastic coated on both sides. As per sample	01 No.

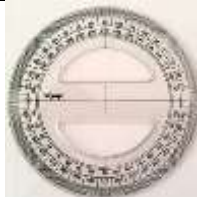
11	a) Cut outs of Parallelogram		Parallelogram Plastic corrugated sheet 3 mm thick, blue colour. Length 120 mm, width 85 mm, one angle 75° Labeling with black colour. As per sample	01 No.
	b) Cut outs of Triangle and Trapezium (Parallelogram)		Triangle cut from a Parallelogram As per sample	01 No.
	c) Cut outs of Triangle and Trapezium (Rectangle)		Trapezium and triangle to form the rectangle Triangles in Parallelogram and rectangle to be of the same size. As per sample	01 No.
	d) Two congruent Trapeziums (Parallelogram)		Two congruent Trapeziums forming a parallelogram Each part to be separated. As per sample	01 No.
	e) Triangles A, B, and C from a Parallelogram		Parallelogram showing triangles in it. Triangles A and C fitting on triangle B As per sample	01 No.
	f) Two congruent Triangles		Two congruent Triangles As per sample	01 No.
12	a) Four equal divisions of a circle		Four equal divisions of a circle all marked with A. Blue colour Plastic corrugated sheet of 3 mm thickness diameter 160 mm. Its thickness may be increased to 5mm. All pieces should be cut in the form of sectors. As per sample	01 No.

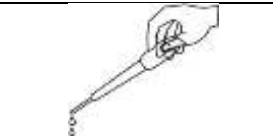
	b) Six equal divisions of a circle		Six equal divisions of a circle, all marked with B As per sample	01 No.
	c) Eight equal divisions of a circle		Eight equal divisions of a circle all marked with C. As per sample	01 No.
	d) Twelve equal divisions of a circle		Twelve equal divisions of a circle all marked with D. As per sample	01 No.
	e) Sixteen equal divisions of a circle		Sixteen equal divisions of a circle all marked with E. As per sample	01 No.
	f) Two equal parts of a circle		Two equal parts of a circle As per sample	01 No.
	g) Three equal divisions of a circle		Three equal divisions of a circle. Note -Thickness of each sheet be increased to 5 mm As per sample	01 No.

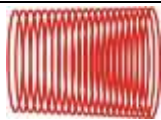
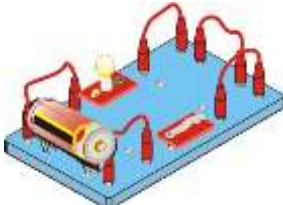
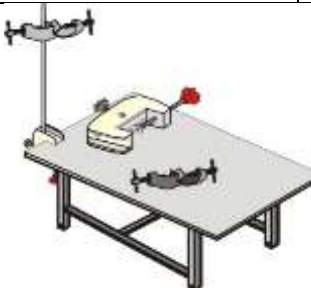
13	Plastic Cubes		ABS plastic cubes with sides 20 mm accurate size, 5 mm to 8mm diaholes with depth of 5 mm on five faces. Sixth face will have a peg to push fit into the holes. As per sample	64 Nos.
14	Counters		Plastic, dia 20mm (whose one side is blue and other side is red) As per sample	20 Nos.
15	Counters of different colours		Plastic, 20 mm diameter x 2 mm thickness. Different 4 colours two of each colour. Red, Blue, Yellow and Green As per sample	02 each colour
16	Abacus a) Abacus stand		Plastic base 120/150 x 28/30 x 15/18 mm with as per dowel dia push fitted in holes. 8 mm/10 mm deep 5 holes. Marking as per sample. As per sample	01 No.
	b) Aluminium Dowels		Dia 6 x 100/102 mm. Write 100, 10, 1, 1/10, 1/100 in white colour on box As per sample	5 Nos.
	c) Beads of one bright colour		Diameter 12.5mmx10mm height and throughout hole dia 6.5/7 mm As per sample	50 Nos.
17	A pack of cards numbered from 1 to 100		Plastic coated on both sides As per sample	01 No.
18	Board showing		A4 size x 2, Plastic coated on both sides	01 No.

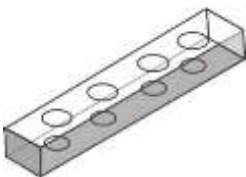
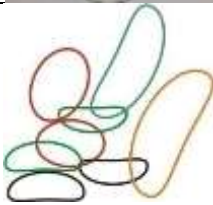
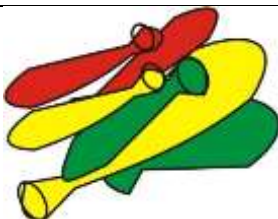
	numbers +104 to -104		As per sample	
19	Dice 1 to 6		Blue and Red Cube 18/20 mm. side ,edges rounded As per sample	02 each
20	Plastic box		140/150 x 90/95 x 40/50mm.	01 No.

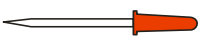
SECONDARY SCIENCE KIT (SSK)
Technical Specification

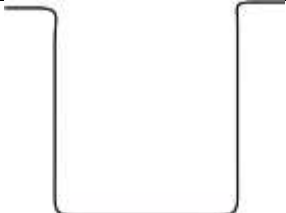
Sl. No.	Name of the Item		Technical Specification	Quantity
1.	Kit manual		Kit manual is supplied with the kit.	01 No.
2.	Kit box with carton 6 ply		Main Body of 26 SWG and partitions of tin sheet. Doors will be fitted 15 mm above the ground level with main body. Right hand door and left hand door should have two racks. The rack partition should have guides (as per sample) The doors should have suitable piano hinges duly spot welded/riveted etc. with main body. Provision for locking system (as per sample) & two folding type handles 6 mm dia for carrying box. Provision for supporting rest for hanging doors to be made as per sample. All over box size 470 × 450 × 280mm . As per sample.	01 No.
3.	Spring balance		A.B.S., open type, capacity 250 g, graduation in steps of 10 g on one side and Newton's on the other side. As per sample.	02 Nos.
4.	Magnetic Compass		Metal case, polystyrene transparent top, magnetized needle with north marked red and south marked blue, 50 mm size. As per sample.	01 No.
5.	Set of four resistors 10 ohm (1 no), 20 ohm (2 nos.), 30 ohm (1 no)		15 mm × 15 mm × 125 mm with nichrome wire resistance, embedded in plastic case with terminal. As per sample	01 set
6.	Full Protractor		Transparent plastic dia. 125 mm, approx. thickness 2 mm. Double angle marking 0-360° As per sample	01 No.

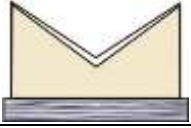
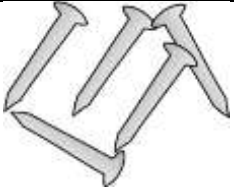
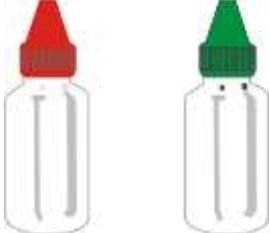
7.	Graduated Syringe		Standard, plastic, capacity 10 mL. As per sample	01 No.
8.	Compound Microscope (optional)		ISI based microscope: Metal Body, overall height approx. 320 mm, base 125 mm × 200 mm. Achromatic good quality lenses. Two Objectives: 10x& 45x. Two Eyepieces: 10x& 15x having coarse fine motion & fixed condenser. As per sample.	01 No.
9.	Dissecting Microscope		Base dia.120/125x15/18mm, rack and pinion fitted in 85 mm. Pipe dia. 24mm. Eye Piece-10x&20x Internal pipe dia.18mm. Platform fitted with glass plate size 83/88x105/120mm. Two plates 80x85mm for supporting platform,two leas movable arm in two parts.Mirror dia.50mm fitted on base. Height of glass plate platform 110mmapprox. As per sample.	01 No.
10.	Tuning Fork and rubber pad		Mild Steel flattened 06 x 3.4 mm, prongs 110 mm long, frequency 256 Hz. A piece of rubber pad of 70 mm × 50 mm × 8 mm As per sample	01 No.
11.	Measuring cylinder		Plastic, transparent with built-in base, 100 mL ,graduation 1mL As per sample	01 No.
12.	Pasteur Pipette/Dropper		Low Density Poly Ethylene (LDPE), capacity 03 mL. As per sample	04 No.
13.	Syringe Pump		Poly carbonate syringe pump, overall size with piston 200mm.andouter dia. 30mm. As per sample.	01 No.
14.	U-Shape Magnet		Arm length 50 mm, N and S poles to be marked. Alnico As per sample	01 No.

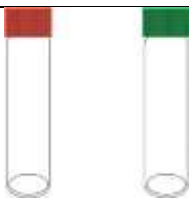
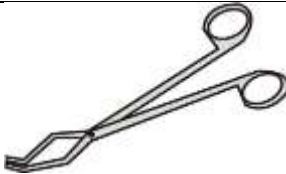
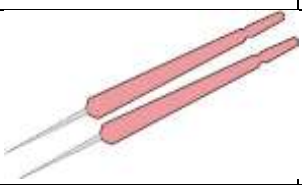
15.	Bar Magnet		Size 75 mm × 12 mm × 8 mm, N and S pole mentioned. Alnico As per sample	01 set
16.	Cylindrical Magnet		Dia. 16 mm and length 25 mm. ferrite As per sample	01 No.
17.	Ring Magnet		Outer dia. 18 mm and thickness 3 mm. ferrite As per sample	01 No.
18.	Disc Magnet		Dia. 36 mm and 8 mm thick. ferrite As per sample	01 No.
19.	Slinky		Steel Wire Spiral roll, outer dia 52 mm and close size 68 mm to 70 mm. As per sample	01 No.
20.	Circuit Board		Complete base of plastic, battery holder, bulb holder with switch, banana sockets and lower side all joined with Patti and copper wire. Two bulbs extra As per sample.	01 No.
21.	Spirit Lamp		Steel body along with brass wick holder dia. 65mm, height 50mm As per sample	01 No.
22.	Tripod Stand		Height 100mm cast iron top 7×7×7cm triangle, legs dia. 4mm. As per sample	01 No.
23.	Laboratory Stand 1) Boss head 2) Clamp 3) G clamp		Specifications : MS rod dia 10 mm × 375 mm long, MS base, CI Boss head, G clamp and V-type clamp. As per sample	01 each

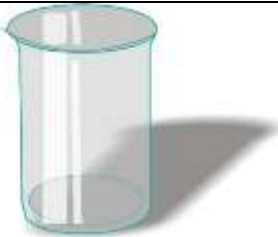
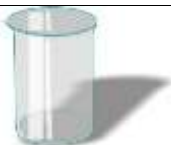
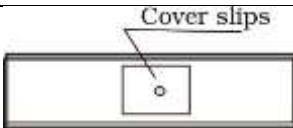
24.	Plastic Funnel		Plastic, transparent top dia, 90/100 mm. x overall length 140/160 mm. As per sample	01 No.
25.	Stainless steel with electrode cork		Dia. 2mm. × 80mm stainless steel electrodes fitted in the cork. Cork size top dia 25mm. × dia.17 taper × 25mm. length, (to fit with item No. 81 bell jar). As per sample.	01 Set
26.	Test Tube Stand		Acrylic Plastic molded size 100 mm × 27 mm × 20 mm, 04 blind holes to hold Micro Test Tubes dia. 10mm ,depth of hole 15mm. As per sample.	04 Nos.
27.	Trolley		4mm corrugated sheet 60mm × 120mm fixed with same size steel sheet attached with four wheels of dia. 30 mm. with spring As per sample.	02 No.
28.	China Dish		Outer diameter 70mm/75mm. As per sample	01 No.
29.	Wash Bottle		LDPE, capacity 125 mL.,good quality As per sample.	01 No.
30.	Rubber Bands		Assorted size As per sample	10 Nos.
31.	Rubber Balloons		5 bigger size and 5 smaller size. Assorted size. As per sample.	10 Nos.
32.	Calorimeter		Borosilicate glass, 50 mL capacity, beaker fitted in Low Density Poly Ethylene (LDPE) foam sheet. As per sample.	01 No.
33.	Forceps		Stainless steel, length 100 mm.	01 No.

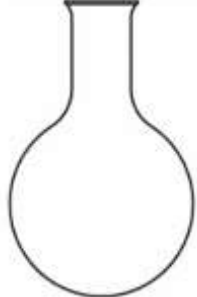
			As per sample	
34.	Rubber cork		Standard, armbred, size nos. 2, 3, 4, 5 and 6. As per sample	02 each
35.	Test Tube Brush		Soft hairs. As per sample.	01 No.
36.	Test tube holder		Wooden handle, Length 200 mm to hold the test tubes upto 10 mm dia, plated. As per sample	01 No.
37.	Plain mirror strip and stand		Good quality, 150mm × 30 mm × 2mm A small plastic block with slit to hold mirror strip. As per sample	02 each
38.	Copper strip		80 mm × 5mm × 1 mm As per sample	04 Nos.
39.	Zinc strip		80 mm × 5 mm × 1 mm As per sample	04 Nos.
40.	Iron strip		80 mm × 5 mm × 1mm As per sample	04 Nos.
41.	Aluminum strip		80 mm × 5 mm × 1mm As per sample	04 Nos.
42.	Sand paper		Standard, 60 and 120 number. As per sample	01 each
43.	Connecting wire with Banana plug		Soft electric wire 200 mm length both end fitted with banana plug. Two red and two black. As per sample	04 Nos.
44.	Transparent stiff plastic tube		Dia. 6 mm × 500 mm length As per sample	01 No.
45.	Glass Dropper with rubber bulb		Borosilicate glass, length 100 mm, capillary length 20 mm, diameter 06 mm. As per sample.	02 Nos.

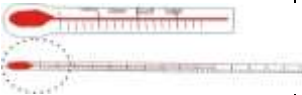
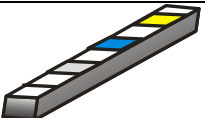
46.	Copper wire bent in u form		Dia. 1mm. copper wire U bent 30mm x 35 mm height and both corners bent 6mm in 90°. As per sample.	01 No.
47.	Constantan wire		26 SWG 50cm approx. length As per sample	01 No.
48.	Copper wire		100cm long, thickness 24 SWG As per sample	01 No.
49.	Nichrome wire		SWG-24-length 50cm, SWG-26-length 100cm, SWG-28-length 50cm As per sample	01 Pc. each
50.	Transparent PVC plastic tube with stoppers		Dia 22 mm, thickness 02 mm, 50 cm long, with stoppers at both ends. As per sample.	01 No.
51.	Filter Paper		Ordinary. Circular of dia. 100 mm As per sample.	10 No.
52.	Circular coil		Plastic circular case of dia. 150mm, inner dia. 100mm with four terminal coverings with coated aluminum wire 26 SWG. 0-100-200-500 turns. As per sample.	01 No.
53.	Steel Ball (bob)		Steel Ball with a hook, diameter 18-20 mm, As per sample.	01 No.
54.	Pith / Plastic Ball		Dia. 12 mm, solid, hole throughout center 1.5mm. As per sample.	01 No.

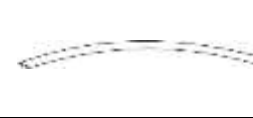
55.	YoYo		X shaped plastic wheel dia. 116mm × 40/42mm fitted with 1.5m nylon thread. As per sample.	01 No.
56.	Mirror/Lens stand		Plastic mirror stand 120mm × 30mm × 75 mm.height with base. As per sample.	01 No.
57.	Micro Spatula		Stainless steel. 100mm approx length As per sample.	01 No.
58.	Ice Cream Spoon		Good quality Wooden. As per Sample	01 No.
59.	Plug Key		One way plug key (Brass), base 80 mm × 55 mm. As per sample.	01 No.
60.	Micro Test Plate/Well plate		Polystyrene (PS) with 96 wells. As per sample.	01 No.
61.	Blotting paper		100 mm × 100 mm.	10 No.
62.	Iron Nails		Length 38 mm, 15 SWG	10 Nos.
63.	Dispensing Bottle		Low Density Poly Ethylene (LDPE), Capacity 15 mL, with screw type cap and nozzle. As per sample.	30 No.

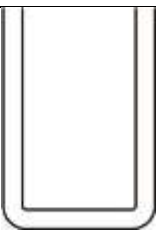
64.	Vials		High Density Poly Ethylene (HDPE), height 55 mm, diameter 15 mm. As per sample.	20 No.
65.	Crocodile Clips		Clips 50 mm, Plated, standard flexible wire 76, 50 cm long. Each set having two wires.	5 sets total 10 wires
66.	Multimeter		Pocket size, digital, high impedance. As per sample.	01 No.
67.	Pair of Tongs		Dia. 05 mm, overall length 160 mm, chrome plated. As per sample.	01 No.
68.	Surgical Scissors		125 mm, one prong blunt and other pointed, standard. As per sample.	01 No.
69.	Screw driver		Dia 6mmx100 mm long, hardened, with plastic handle. As per sample.	01 No.
70.	Dissecting Needle		Standard, length 120 mm, with plastic handle. As per sample.	02 No.
71.	Claw hammer with handle		Forged, approximate weight 225 gm with wooden handle. As per sample.	01 No.
72.	Capillary Tube		Soda glass. dia. 1.5 mm × 100mm. As per sample.	01 box

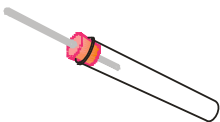
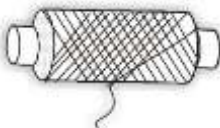
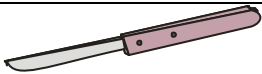
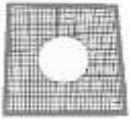
73.	Micro Test Tube 2 mL		Borosilicate glass, dia 10 × 45 mm height with rim, As per sample	16 No.
74.	Magnifying Glass		Optical glass, focal length 120 mm, with plastic handle. As per sample.	01 No.
75.	Beaker (50mL)		Borosilicate glass, capacity 50 mL, height 56 mm, dia 42 mm. with rim.	02 No.
76.	Micro Beaker (10mL)		Borosilicate glass, capacity 10 mL, height 30 mm, dia 20 mm. with rim.	04 No.
77.	Permanent slide		Hydra, Amoeba, Paramecium, Striated muscles, Nerve cell, Spirogyra (Packed in plastic slide box)	01 each
78.	Plastic Petri dish		Plastic petri dish ,white ,outer dia. 110mm × 25/27mm depth As per sample.	01 No.
79.	Cover Slips		Thickness 0.2 mm – 0.3 mm approx. square glass pieces. As per sample.	20 (01 box)
80.	Glass Rod		Length 150 mm, dia. 07 mm.	01 No.
81.	Bell Jar		Borosilicate 3.5 mm thick glass, neck inside dia. 18/19 mm × 20/22 mm height. Overall length 85/95 mm × inside dia. 55 mm with rim diameter 62/64 mm. As per sample.	01 No.

82.	Separating funnel		125ml capacity, Borosilicate Glass packed in plastic/cardboard box. As per sample	01 No.
83.	Glass tube		Glass tube dia. 6mm. × 150 mm. As per sample.	01 No.
84.	Glazed Glass plate		Glass plate size 100 mm × 100 mm × 2.5 mm. As per sample.	01 No.
85.	W-tube		Borosilicate glass, 2 mm thick × 8 mm dia. having length of arm 70-75 mm with wide mouth in one arm. As per sample	04 No.
86.	Watch glass		Soda glass, dia 50 mm. As per sample.	1 No.
87.	Stirrer		Soda glass with circular flat end, length 100 mm. Glass rod dia. 4 mm. As per sample.	1 No.
88.	Measuring Flask		25mL capacity As per sample.	01 No.
89.	Round Bottom Flask		Borosilicate glass, capacity 35 mL, As per sample.	01 No.
90.	Ignition Tube		Soda glass, dia 05 mm, length 40 mm. As per sample.	10 No.

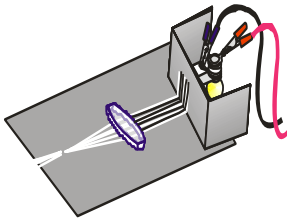
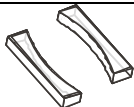
91.	Shaving blade		01Packet Having 5 blades	01Packet
92.	Double Concave Lens		Glass, Focal length 20 cm and dia. 50 mm. As per sample.	01 No.
93.	Double Convex lens		Glass, Focal length 20 cm and dia. 50 mm. As per sample.	01 No.
94.	Concave Mirror		Glass, Focal Length 20 cm, dia. 5cm. As per sample.	01 No.
95.	Convex Mirror		Glass, Focal Length 20 cm, dia. 5cm. As per sample.	01 No.
96.	Plane mirror		2 mm × 50 mm Dia. Round edges. As per sample.	01 No.
97.	Square Glass Slab		Square glass slab, size 50 mm × 50 mm × 12 mm thick. As per sample.	01 No.
98.	Triangular Glass Prism		Glass Prism 25/28 mm of equilateral triangles As per sample.	01 No.
99.	Laboratory Thermometer		Glass, alcohol filled, -10° C to 110° C, graduation 1° C with card board/plastic cover and cotton at both ends.	01 No.
100.	pH Paper		pH 1-11, paper box containing, 10 booklets. As per sample	10 book-lets
101.	Iron Filings		Packed in vial/plastic box.	10g
102.	Litmus Paper		Red and Blue colours	05 book-lets each

103.	Plastic Boxes		Appropriate size to keep all glass items. 2 Boxes of size 170 mm × 130 mm × 75 mm each 1 box of size 230 mm × 128/130 mm × 85 mm Glass ware items to be packed in all these boxes.	03 Nos.
104.	Conical flask		borosilicate glass of capacity 25 ml.	01 No.
105.	Boiling Tube with cork		Borosilicate glass 90 mm × 20 mm dia. with cork.	02 Nos.
106.	Thread roll		Roll of thread of dia 2mm	01 roll
107.	Thin flexible tube		Flexible tube length 200mm diameter 2mm fit on syringe nozzle. As per sample.	03 No.
108.	Steel ball with hole		With hole (3 mmdia) throughout (Dia- 18- 20 mm) (identical size)	03 No.
109.	Overflow can		Plastic transparent with built in base, height 130mm and dia. 55 mm with over flow pipe dia. 8mm	01 No.

110.	U-tube (glass/plastic)		Borosilicate glass/plastic, 2mm thick 8mm dia having length of arms 15 cm. making total tube length of 37 cm As per sample.	01 No.
111.	Rubber tube		Length 30-40 cm This rubber tube should be of dia such that it gets fitted with the funnel (item no. 24) and U- tube (item no.- 110)	01 No.
112.	Plastic spool		Dia 54mm and length 63/65mm and hole of dia 2 mm on top of one side As per sample	01 No.
113.	Digital Stop Clock		8digit 0.01 least count, count up, count down. As per sample	01 No.
114.	Measuring tape		Tailor measuring tape	01 No.
115.	White screen		100 mm × 100 mm, plastic	01 No.
116.	Torch bulb with holder		Screw type bulb holder with tag for connection and bulb of 3V As per sample	02 set
117.	Glass Slide		Standard glass item, 75mm × 25mm × 1mm thick As per sample	08 No.
118.	Cotton Roll		Mini cotton roll of 50 g	01 No.
119.	Muslin Cloth		Fine muslin cloth ,150mm × 150mm piece	01 No.
120.	Painting Brush		01 no. size with fine hair	01 No.

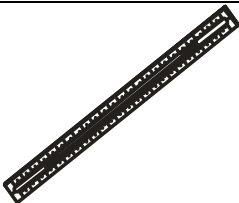
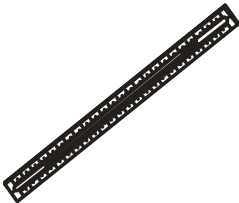
121.	Measuring Pan with holder		Plastic pan, dish type dia. 80mm, with wire holder	01 set
122.	Assembly boiling tube with cork fitted glass tube		Borosilicate boiling glass tube dia. 25mm × 150mm length with rim. And assembled cork with bore dia. 5mm × 140mm length glass tube fitted in the cork bore As per sample	02 No.
123.	Thread		Small reel cotton thread	01 No.
124.	U-Clips/ Paper clips		Standard medium size	01 dozen
125.	Knife/Cutter		100 mm × 1.5 mm, hardened steel, with wooden/plastic handle.	01 No.
126.	Split Cork		Rubber cork of axial length 27/30 mm, smaller face dia. 20 mm. bigger face dia. 25 mm. in the two equaled parts (Cork No. 7)	01 No.
127.	A box of tooth picks		Standard size approx. 100 tooth picks	01 box
128.	Adhesive tape		Width 10mm	01 No.
129.	Physical Weight box		10 mg to 100 g	01 box
130.	9V Battery		As per Sample	02 No.
131.	Digital Balance (Pocket)		Range upto <u>100 g/200g</u> , sensitivity 0.01g	01 No.
132.	Delivery Tube		PVC plastic tubing dia. 8mm, 200mm long with “L” type plastic pipe fitted with rubber cork at one end and nozzle at other end. As per sample	01 No.
133.	Wire Gauze		100mm × 100mm with frame	01 No.

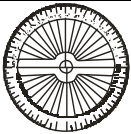
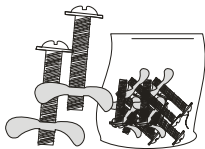
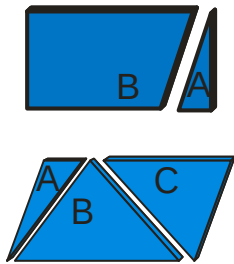
134.	Thick black paper sheet		Black chart paper A4 size	04 No.
135.	Tapping key		Plastic base As per sample	01 No.
136.	Optical bench with plastic scale		Two plastic scales of dimensions 400 + 400mm × 27mm. × 6 mmthick, plastic scale. Markings of centimeter and millimeter on top on both sides, the two parts to be joined with plastic strip. As per sample	01 No.
137.	Lens holder		Dia 35mm. Perspex rod over all height 55mm with 3.5 mm × 10mm elliptic depth slot & 6mm wide × 6mm elliptical depth slot. Bottom end slot 5mm × 27.5 mm for sliding on plastic scale. As per sample	01 No.
138.	Screen holder		Perspex piece, over all height 21.5mm, approx. round bottom of dia 47.5 mm, slot 27.5 × 5mm depth, width of piece 25mm, top slit straight 8mm deep & 3mm wide. As per sample	01 No.
139.	Candle holder		Perspex piece over all height 21.5mm, approx round bottom 47.5 mm, slot 27.5 × 5mm depth, width of piece 25mm, top having 12mm dia. hole × 8mm depth As per sample	01 No.
140.	Metal cylinder with hook		Solid cylindrical M.S. and aluminium dia 20mm × 50mm length with hook. As per sample	01 Alu. 1 M.S.

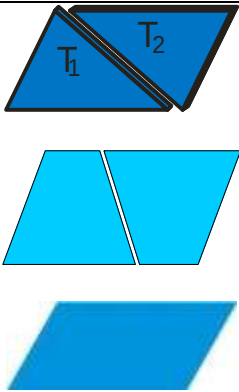
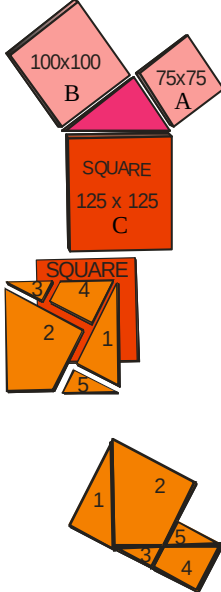
141.	250gm weight with hook		A hook with attached disc of dia 3 mm × 90 mm and weight 50g. Four slotted weights each of 50g, Total no. of weights 5 × 50g = 250g As per sample	01 set
142.	Raystreak box		U shape mild sheet of 24 SWG. Size of the front face: 80 to 100 mm x 70 mm with M shape window of size of 30 mm x 30 mm starting from centre bottom side of front face. Size of two side faces: 40 mm x 70 mm. butt 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 of front face at the centre of the window. Having one bulb of 3.2 V, bulb to be projected in the windows of front face. Complete apparatus painted in black colour. As per sample.	01 No.
143.	Plano concave lens		Spherical Plano Lenses made from Perspex sheet of size 50 mm × 20 mm × 12 mm. As per sample.	02 No.
144.	Half cylindrical lens		Perspex rod of size dia 28 mm × 15 mm height. As per sample.	01 No.
145.	Double convex lens		Spherical Double convex lenses. Each made from Perspex sheet of size 50 mm × 20 mm × 12 mm. and matching with Plano concave lens. As per sample.	01 No.
			Visual cards Size 21cm × 30 cm plastic coated cards	
146.	Stomata in monocot and dicot plants		Standard, as per sample	01 No.
147.	Binary fission in Amoeba and		Standard, as per sample	01 No.

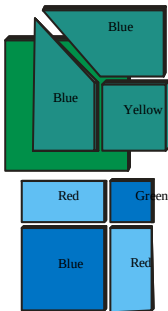
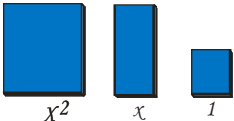
	Paramecium			
148.	Budding in Yeast and Hydra		Standard, as per sample	01 No.
149.	Vegetative propagation in Potato, Bryophyllum and an aquatic plant		Standard, as per sample	01 No.
150.	Parts of flower		Standard, as per sample	01 No.
151.	Onion peel cells		Standard, as per sample	01 No.
152.	Human cheek epithelium cells		Standard, as per sample	01 No.
153.	Parenchyma and sclerenchyma tissue		Standard, as per sample	01 No.
154.	Striated muscle fibers and		Standard, as per sample	01 No.
155.	Spirogyra (thelophyta)		Standard, as per sample	01 No.
156.	Agaricus (fungi)		Standard, as per sample	01 No.
157.	Moss (Brophyta)		Standard, as per sample	01 No.
158.	Fern		Standard, as per sample	01 No.
159.	Pinus		Standard, as per sample	01 No.
160.	Pea		Standard, as per sample	01 No.
161.	Earthworm		Standard, as per sample	01 No.
162.	Cockroach		Standard, as per sample	01 No.
163.	Rohu		Standard, as per sample	01 No.
164.	Pigeon		Standard, as per sample	01 No.
165.	Life cycle of a mosquito		Standard, as per sample	01 No.

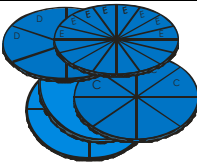
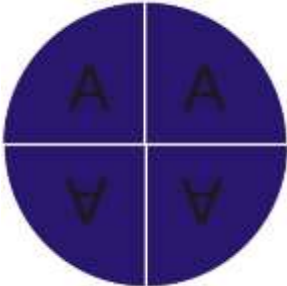
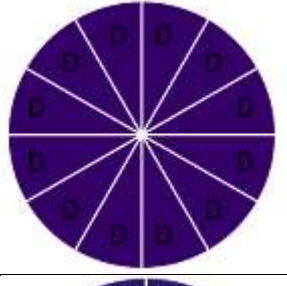
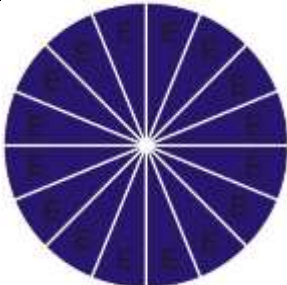
**Secondary Mathematics Lab Kit
Technical Specifications**

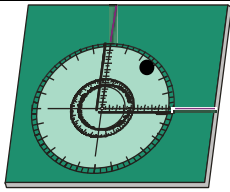
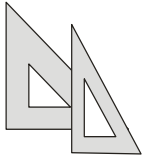
S.No	Item Name	Figure/stapes	Specification	Quantity per Kit
1	Kit manual		Kit manual along with kit	1 No.
2	Kit box with carton		Plastic molded box in Blue colour. Overall size 340mmx340mm x height 110 mm with tolerance +/- 5mm and sheet thickness 5mm. Two parts joined with two pins on sides. All corners round shaped and top to bottom taper 10 degree approx .Handle for carrying with locking system. Inner side arrangement for partition: two pieces of taper shaped plastic strips for partition and outer side etching. Weight not less than one Kg. As per sample	01 No.
3	Plastic Strip (A Type)	 10mm marking	Transparent, Perspex/Plastic molded 264 x 20 x 2.7 mm to 3 mm having 3 slots of width 5 mm. at a distance of 0 to 30 mm., next 50 to 200 mm. and again 220 to 250mm. Numbering from 0 to 25cm. with mm. markings in it on both sides, all markings and numbering with center line in black colour. As per sample	08
4	Plastic Strip (B Type)	 50mm marking	Transparent Perspex/Plastic moulded 264 x 20 x 2.7 mm to 3 mm having 3 slots of width 5 mm. at a distance of 0 to 30 mm. next from 50mm to 200mm and again 220mm to 250mm. All markings and numbering with center line in black colour. As per sample	03

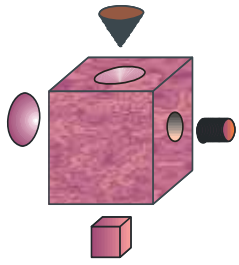
5	Full Protractor (360°)		Transparent, plastic with diameter 125 mm and thickness 2 mm. Double angle marking 0-360° with centre hole 4 mm on centre point. As per sample	04
6	Half Protractor (180°)		Transparent, plastic with diameter 96/100 mm. approx. and thickness 2 mm. Double angle marking 0-180° with centre hole 4 mm on base line. As per sample	04
7	Fly nut and Screw		Mild steel, chromium plated. Length 15 mm, metric thread (M4), round head washer type with fly nuts. As per sample	15 Sets
8	(a) Geo-board		ABS material, 210 x 210 x 15 mm. One face has grids of 10 mm square with a hole of 2 mm dia x 7 mm deep. Corners of each square except boundary corners of the squares i.e. total squares 289. Other side four rounds with 2.5mm diameter x 6mm height dowel inbuilt dia. Having 70, 110, 150, 190 mm each dia. 20 dowels inbuilt in each circle and one dowel inbuilt at centre point. As per sample	01
	(b) Geo-board pins		2 mm dia x length 15mm of aluminum pins with rounded head. As per sample	20
9	Rubber bands		Standard item assorted size thin rubber bands of good quality	20
10	CUTOUTS (for area of polygons)		a) A triangle and a trapezium marked as A and B respectively b) Three triangles marked as A, B and C	01 set each

			c) Two triangles marked as T_1 & T_2 respectively d) Two trapeziums marked as C & D respectively A parallelogram Plastic corrugated sheet 2.7mm / 3 mm. thick, blue colour, length 120 mm, width 85 mm, one angle 75°, labeling with black colour. As per sample	
11	PYTHAGORAS THEOREM Square with 5 Cut Outs		i) Four plastic cutouts for Pythagoras theorem with 125mm square, 100mm square and 75mm. square. A right angled triangle with sides 125 mm, 100 mm and 75 mm. Thickness of all sheets 3 mm. (remove flash from all sides of triangle and squares). ii) 5 cutouts of another plastic sheet of dimension 125mm x 125 mm with thickness 3mm. Cutting and marking as per figure (remove flash from all sides of all pieces). Total 9 piece set. As per sample Note-Sheet thickness 3mm & colour may be uniform for all tiles. Add Colour as follows: 1. Central Triangle → Red 2. Square 'A' → black 3. Square 'B' → blue 4. Square 'C' → green 5. Square 'B' and its pieces 1, 2, 3 in same colour 6. Square 'A' and its pieces 4, 5 in	01 set each

			same colour.	
12	Algebraic Identities		(i) 1. Square shaped plastic sheet of side 76mm 2. Three cutouts - one as a 38mm square having yellow colour and two pieces of same size of blue colour - 38x76mm with a cut of 45 degrees from the corner of base sheet reaching up to 38mm square cutout ii) Plastic sheets in four pieces two squares of 80mm. and 45mm. and another two rectangular shaped of 80mm x 45mm Note-Sheet thickness 3mm uniform for all tiles. (Remove flash from all sides)	01 set each
13	ALGEBRAIC TILES $x^2, x, 1$	 (1) (2) (3)	All tiles in three sizes. Made in Plastic sheets/plastic moulded 1) x^2 -50mm. x 50mm. 5tiles in blue colour. 2) x -50mmx 10mm. 10 tiles in blue colour. 3) 1 -10mmx 10mm. 20 tiles in blue colour. Packed in plastic box. As per sample Note- (i) Sheet thickness 3mm, printing on tiles required and remove flash from all sides. (ii) All algebraic tiles in blue colour	01 set
14	Plastic Box		80 mm x 70 mm x 35/40 mm As Per Sample	01
15	CUT OUTS For area of a circle		Blue colour Plastic corrugated sheet 2.7/3 mm thickness with diameter 160 mm. five circles in 4, 6, 8, 12, and 16 different equal parts. Sheet thickness 3mm and all	01 set

			divisions marked A,B,C,D and E. As per sample	
	a) Four equal divisions of a circle		Four equal divisions of a circle all marked with A. Blue colour Plastic corrugated sheet of 3 mm thickness diameter 160 mm. Its thickness may be increased to 5mm. All pieces should be cut in the form of sectors. As per sample	01 No.
	b) Six equal divisions of a circle		Six equal divisions of a circle, all marked with B As per sample	01 No.
	c) Eight equal divisions of a circle		Eight equal divisions of a circle all marked with C. As per sample	01 No.
	d) Twelve equal divisions of a circle		Twelve equal divisions of a circle all marked with D. As per sample	01 No.
	e) Sixteen equal divisions of a circle		Sixteen equal divisions of a circle all marked with E. As per sample	01 No.

16	Trigonometric Circular Board		260mm x 260mm x 12 to 13mm thick plastic board. Take the center of the board 120mm from the bottom and 120mm from the left side and circle dia 200mm. Circular groove 5mm x 10mm depth.. X and Y marking on the dials. Full protractor 360° marking in center and 5° to 10° marking outside of dials. Dia 5mm x 10mm hole in the center and top of circular board. Three side slot 5mm x 10mm depth from circle groove to out of board end as per sample fourteen holes and one blind hole in center of circle Note: Sheet board should be milky white. As per sample	01
17	Connectors for holes		Stainless steel, length 25 mm. and dia 5 mm. with sleeve. Push fitting for trigonometric circular board holes. As per sample	10
18	Connectors For (Strip)		Stainless steel, length 25 mm. and dia 5 mm. with rubber sleeve. Push fitting for trigonometric circular board groove. As per sample	15
19.	Connectors (T-Type)		Flat rivet type 20mm height and dia 4mm with rubber sleeve. As per sample	10
20	Set Square		As per standard medium size.	01 Set

21	Rotating Needle		Steel rod dia 3mm. and length 200mm with one side 'L' bend rivet/screw of dia 4mm. attached with rod and plastic sleeve of dia 5mm on screw/rivet. As per sample	01
22	CUTOUPS with CUBE a) Cone b) Cuboids c) Cylinder d) Hemisphere		Plastic solid/hollow cube 60mm. x 60mm. with 4 sides top, bottom, right and left of the cube fitted with cone (dia-30 mm, height-30mm), cuboid (30 mm x 30 mm x 15 mm height), cylinder (dia-20mm, height-20mm) and hemisphere (dia-30mm, height-15mm) respectively. As per sample	01 set

**Molecular Model Kit
Technical Specification**

S no.	Name of Items		Specification	Quantity As per Kit
1	Kit Manual		Kit manuals may be purchased from sales counter of Publication Division, NCERT, New Delhi. The price of all the kit manuals are ranging Rs.20 to 50/-	1
2	Kit Box with carton		Polypropylene transparent milky White box, Overall Size height with cover 220x140x40mm. Six pockets of equal size. Multi box As per sample	1
3	One- prong atom		Polypropylene atom dia 13mm with prong dia 4mm. x 9mm. length in five colours white, green, black, sky blue and red. As per sample and packed in polythene bag.	25 White 10 Green 10 Black 10 Blue 10 Red
4	Two-prong atom (A) linear		Polypropylene atom dia 13mm. with both side prongs dia 4mm. x 9mm. length. With total length 30mm. single bond at an angle 180 degree. And packed in polythene bag. As per Sample	04 Brown
	(B) Bent		Polypropylene atom dia 13mm. with two prong dia 4mm. x 9mm. with 109.5° both side length is 21 mm. two colours Red and Yellow. and packed in polythene bag. As per sample	10 Red 10 Yellow
5.	Four-prong atom		Polypropylene atom dia 13mm. with four prong dia 4mm. x 9mm. each prong making an angle of 109.5° with one-another. Three colours Black, Blue and Red. and packed in polythene bag. As per sample.	25 Black 06 Blue 06 Red

6.	Five- prong atom		Polypropylene atom dia. 13mm. with five prong dia. 4mm. x 9mm . two prong linking with atom 180^0 and three prong 120^0 perpendicular to atom in a two colour black and brown and packed in polythene bag. As per sample	30 Black 05 Brown/ Black/ Red
7.	Six- prong atom		Polypropylene atom dia. 13mm. with six prong dia. 4mm. x 9mm .all six prong across with atom with 90^0 in a three colours black, Brown and green and packed in polythene bag. As per sample.	05 Black 05 Brown/ Orange 15 Green
8.	Orbital lobes		Polypropylene orbital lobes all length 20mm. balloon type one side dia 15/16mm. and another side 12mm. with dia 3.9 mm. hole depth 15mm. and sky blue colour and packed in polythene bag. As per sample.	10 Light Blue
9	Linkers		LDPE. Pipe outer dia 4.5 mm. colour is milky white .in three sizes and packed in polythene bag. (A) Inner dia 3.9mm. x 25mm. length . (B) Inner dia 3.9mm. x 40mm. length. (C) Inner dia 3.9mm. x 50mm. length	60 Small 08 Medium 12 Large
10	Sleeve		PVC. Soft pipe overall length 95/100mm. x 3.9mm.innerdia of the sleeve and colour blue and packed in polythene bag. But all sleeve length should be equal. As per sample.	12 Sleeves

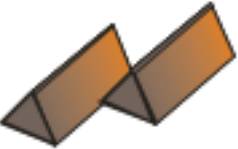
Sr. SECONDARY PHYSICS LAB KIT
Technical Specifications

Sr. No.	Item Name		Specification	Quantity
1.	Kit Manual		Kit manual is supplied with the kit.	01
2.	Kit box with carton		1. 12 mm thick outer box of wooden ply of size 670 mm x 330mmx160 mm heights. Flap should open from top to back side, attached with piano hinged inside the box. Locking system and chest handle in both sides, rod dia 5mm, 20mm bend on both sides at right angle (L shaped) having length 370mm for the purpose of fixing with flap, box paint in teak colour. 2. 12 mm thick outer box of wooden ply of size 670 mm x 330mm x 250mm height. Flap should open from top to back side, attached with piano hinged inside the box, box paint in teak colour Both the boxes packed in 6 ply carton box. As per sample.	01 each
3.	Vernier Calipers		(1) Standard item, medium size, main scale 0-15 cm, steel body. Least count 0.1mm. (wheel type) (2) Standard item, medium size, main scale 0-15 cm, steel body. Least count 0.05mm (wheel type) Both packed in single plastic/wooden box. As per sample.	01 each

4.	Screw Gauge		Moore & Wright type, Stainless Steel screw + pivot ratchet stop, Standard item, and good quality in the two sizes. One is 15 x 1/100mm. Another size 15 x 1/200mm. Both screw gauges packed in single plastic box. As per sample.	01 each
5.	Spherometer		Standard item, good quality with 100 divisions on circular scale, Brass body, stainless steel screw + Legs, distance between legs 32mm. As per sample.	01
6.	Beam Balance		M.S. axel 180mm height and fitted with graduated beam scale (28x200mm) with pointed screw and aluminium pans of size 45x45mm and height 80mm hanging on both sides, . As per sample	01
7.	Laboratory Stand Assembly 1) M.S. rod 2) Boss head- (2each) 3) G clamp 4) Clamp-(2 types) 5) Base plate		MS rod dia. 9.5/10 mm x 575/590 mm long, base plate size 130mm x 200mm, plate thickness 2 / 3 mm and CI Boss head two pieces in each set and two clamps of different shapes in each set. As per sample	02 sets
8.	Measuring Cylinder		Plastic transparent with built-in base, 100 mL, graduation 1 mL As per sample.	01
9.	Stopwatch with Split timeout		Digital stopwatch, standard with least count 0.01 second. As per sample.	02
10.	Inclined Plane		Two wooden planes 380mm x 100mm x 12mm hinged together attached with pulley. Top surface smooth with sun mica, Another plane of rough surface of same size as top, attached with angle	01

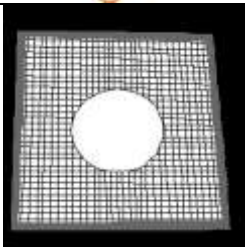
			protractor and labeling screw on base. As per sample.	
11.	Steel Roller		Dia 20 mm and 75mm length roll with wire hook. As per sample.	01
12.	Aluminium Roller		Dia 20 mm and 75mm length roll with wire hook As per sample.	01
13.	Helical Spring		Spring wire dia 15mm, length 35mm attached with hook and pointer. As per sample.	02
14.	20g slotted weight with hook		One 20g disc attached with dia 3mm×90mm with hook and four 20g weight fitted with slots one by one with a total weight of 100g As per sample	01 set
15.	50g slotted weight with hook		One disc attached with dia 3mm x 90mm hook of total weight 50g, four 50g weights with slots. Total weight of complete apparatus will be 250g. As per sample.	02 sets
16.	100g slotted weight with hook		One 100g disc, total weight 500g As per sample	One set
17.	500 g Slotted weight with hook		One 500g disc attached with dia 5mm x 200mm hook and four 500g weight fitted with slots, total weight will be 2.5 kg. As per sample.	01 Set

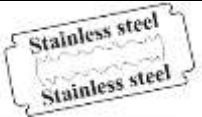
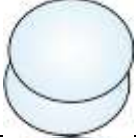
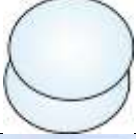
18.	Solid Wooden Block for holding beam balance and syringe		100mm x 100mm x 60 mm. wooden blocks, cut a slot on one side for attachment of beam balance with a hole and back side counter hole for syringe with support, counter for syringe 30 mm depth. (20 mm for nozzle approx.) As per sample.	01
19.	Pulley (S Type)		Iron pulley 'S' type, size 80mm x 35mm., one side fitted with 'V' shaped groove pulley of dia 38mm and another side bolt fitted. As per sample.	02
20.	Steel Balls		Steel ball of dia. 1mm, 2mm, 3mm, 4mm. Packed in four different vials with size stickers. As per sample.	20 each
21.	Wooden block with hook		(50mm x 50mm x 100mm) with hook and each surface of different smoothness. As per sample.	1
22.	Capillary Tube		Standard size Soda glass	01 Box
23.	Bob with hook		(i) One Steel ball and one brass ball of dia. 20mm attached with hook for pendulum (both must be of same size). One Steel ball and one brass ball of dia. 25mm attached with hook for pendulum (both must be of same size). As per sample	01 each
24.	Plane mirror strips with scale		300mm x 45mm x 2mm. mirror strip pasted on wooden strip of same size (of thickness 10 mm) with graduation 0 to 240mm for holding, there should be two rings and screws fitted on back side of wooden strip. As per sample.	01

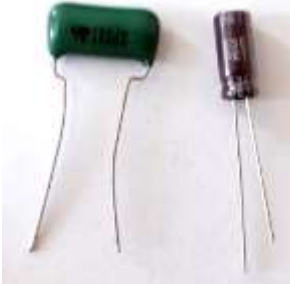
25.	Watch Glass		Dia. 50mm. As per sample	02
26.	Spring balance 250g		A.B.S, open type, capacity 250 g wt, graduation in steps of 10 g wt on one side and Newton's on the other side As per sample.	02
27.	Physical Weight Box		In the weight box 1mg. to 100g iron weights with forceps. As per sample.	01
28.	Wires (1) Brass (2) Steelwire (3) Nichrome		24 SWG. wire 3m length approx. As per sample.	One each
29.	Wooden Wedge		Wooden Wedge 25mm. in three sides x 100mm length and one side top to be fixed with steel round edge. As per sample.	02
30.	Set of Tuning forks		256Hz, 288Hz, 320Hz, 384Hz, 480Hz, 512HZ, packed in a plastic box. As per sample	One each
31.	Rubber Pad		70mm×50mm×8mm As per sample	02
32.	Plastic Beaker (100mL & 250mL)		Plastic 100 mL and 250mL beakers with graduation 0 to 100 mL and 250mL. As per sample.	01 each
33.	Funnel		40 mm dia. plastic funnel, tube size inner dia 4.5mm As per sample.	01no.
34.	Laboratory		Mercury glass	02

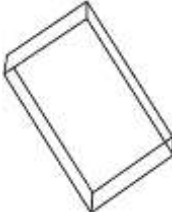
	thermometer		thermometer, Range -10°C to 110°C with least count of 0.5°C and packed in plastic/card board case. As per sample	
35.	Copper calorimeter with copper stirrer		Double wall copper beaker, outer dia. 75mm, inner dia. 48mm, height 85mm, another small copper beaker of dia 45mm, height 64mm and one brass pipe of dia 10mm height 10mm welded with top base of double wall beaker. Plastic cover of dia 75mm with 3 holes (one for inserting stirrer and another two cork fitted holes for inserting the laboratory thermometer) As per sample.	01
36.	Resonance Tube with attachment		Tube inner dia. 25 mm, outer dia. 30mm and 600 mm length with scale marking 0-60cm. Provision for a plastic pipe (of 1 m length and 8mm dia) fitted with cork and plastic reservoir 500mL. As per sample	01set
37.	Tripod stand		Height 100mm, cast iron top 7x7x7cm triangle, legs dia 4mm, iron body. As per sample.	01 No.
38.	Spirit Lamp		Steel body along with brass wick holder dia 65mm, height 50mm As per sample	01 No.

39.	Syringe (60mL) with Plastic top		60 mL Syringe. Standard item, syringe nozzle blocked with Plastic Cap. Plastic top of dia 75mm, thickness 6mm having both side counters (one side for weight supporting and another side to fit with syringe pump), graduation marking from top to bottom 0 to 60mm and one rubber cap for syringe support. As per sample	01 set
40.	Plastic Box		Polypropylene transparent milky white box, overall size 170x120x70mm height with cover. As per sample.	02
41.	Spirit level		Aluminium body, square of approx.16mmx150mm length As per sample	01
42.	Plane Glass plate		6cm×6cmx2mm As per sample	01
43.	Cotton thread		Length 25m (approx) small roll As per sample	01 roll
44.	Split Rubber Cork		12 no. & 7 no. As per sample	01 each
45.	Mirror Strip with plastic piece		Mirror strip of size 100mm×40mm×2mm, one plastic piece 25 x 25 x 15mm for holding the mirror strip As per sample	01 each
46.	Pan		75mm dia, 10mm height with a provision for hanging. As per sample	02

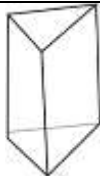
47.	Grease		Grease packed in plastic vial As per sample	10g
48.	Assorted rubber band		One packet As per sample	01
49.	Wire gauze		100mm x100mm with frame As per sample.	02 Nos.
50.	Boiling Tube fitted with glass tube in a rubber cork		Borosilicate glass 25 mm x 150 mm, rim type fitted with glass tube and rubber cork. Glass tube of dia 5mm and inner dia 2mm/2.5mm and length 150mm. As per sample.	02 Nos.
51.	Bimetallic strip		Frame – MS Rod, 6 mm dia. with MS and brass strips joined As per sample.	01 No.
52.	Pinch clip		As per sample	01
53.	Sonometer		A box of 3mm plywood of size 635mmx110mmx105mm, open at the bottom. Two circular holes of 30mm dia. along with graduated scale in front. At the top arrangement for fixing pulley and fly nut and screw As per sample	01

54.	Battery eliminator		0-10V (with minimum provision of 0,1,2,3 upto 10V) with markings of AC and DC output. Maximum current 500mA. Box size 160x90x90mm with 1.5 m wire and joined to two pin plug As per sample	01
55.	Blade		As per sample (shaving blades) (razor blades)	01 packet
56.	Candle		As per sample.	02
57.	Carbon resistors (1/2W)		10k Ω , 15k Ω 20k Ω , 125k Ω , 840 Ω , 47 Ω , 240 Ω As per sample	10 each
58.	Cartridge fuse with fuse holder		125mA fuse rating As per sample	02
59.	Double Concave lens		15cm, 20 cm focal length, dia 5cm As per sample	02 each
60.	Double Convex lens		15cm, 20 cm focal length, dia 5cm As per sample	02 each
61.	Concave mirror		15cm, 20 cm focal length, dia 5cm As per sample	02 each
62.	Convex mirror		15cm, 20 cm focal length, dia 5cm As per sample	02 each
63.	Connecting wires		One thread wrapped copper wire roll, SWG 24, 100g. As per sample	01

64.	Daniel cell		Dia 80-85mm, height 130mm with empty porous pot and zinc rod 12mm dia As per sample	01
65.	Drawing board		30cm×25cm× 1cm As per sample	01
66.	LED		Red and Green packed in plastic bag As per sample	20 each
67.	PN junction diode		IN4007 As per sample	15 pieces
68.	Capacitor		0.1 micro farad, 10 microfd As per sample	15 pieces each
69.	IC		741, 7400 As per sample	05 each
70.	Transistor		BC-547npn BC-557pnp BC- 548 As per sample	15 each
71.	Folding meter scale		One meter plastic scale. As per sample	01

72.	Galvanometer		30-0-30 packed in thermocol box Standard quality As per sample	02
73.	Glass Slab		10cm×5/6cm×1.5/1.8 cm As per sample	01
74.	‘U’ shaped magnet		Arm length 50mm. N & S poles marked. ALNICO material As per sample	01
75.	Jockey		Tip size 8mm As per sample	02
76.	LDR with box		LDR dark resistance 100 kilo oh and few 100 Ohm resistance in light. As per sample	01
77.	Leclanche cell		Pot size 90mm×90mm× 160mm with filled porous pot and zinc rod of dia 12 mm As per sample	01
78.	LED torch		white illumination As per sample	01
79.	Manganin wire		SWG 26 ,100g roll As per sample	01 roll

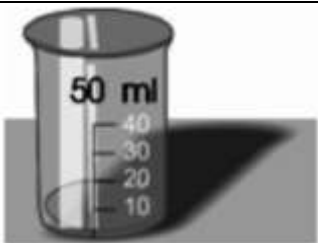
80.	Multimeter		VDC:0-600V, VAC:0-600V , IDC:0-200mA,10A hfe range resistance:0-2Mega ohm, diode range continuity range with extra 10 fuses . As per sample	03
81.	Optical bench assembly		Four pieces of scales of length 58cm with marking 0-50cm on one side and 50-100cm on other side. Scale width 25mm and thickness 8/10mm. End locking pins (2), strips for joining scales (2), sliding bases for uprights (4), sliding upright holder (4), mirror/lens holders (2), screen (10cm×15cm). Lock for horizontal motion of holders. As per sample	01 set
82.	Pencils		Different coloured round pencils As per sample	04 each
83.	Pins		a. Drawing pins b. Allpin Both items packed in plastic box. As per sample	20 each
84.	Plane mirror		80mmx80mmx3mm As per sample	02
85.	Plug Key		i) Brass, One way key -03 ii) Brass two way key -01 As per sample	03 01

86.	Plumb line (small size)		As per sample	01
87.	Polaroid		Two separate pieces of Polarizer and analyzer fixed on cardboard sheet of size 50x50mm As per sample	01
88.	Potentiometer		10 wires of 50cm each fixed on wooden board with jockey 8mm tip size. As per sample	01 set
89.	Prism		38x38mm, equilateral triangles As per sample	01
90.	Full protractor		Transparent, plastic, standard, 0 – 360° As per sample.	01
91.	Rechargeable battery with charger		Rechargeable battery 2V As per sample	01
92.	Resistance box		ABS body Box size 138mm/140mm x 113/115mm , height 45mm with five dials 0.1 Ω -1 Ω 1 Ω -10 Ω 10 Ω -100 Ω 100 Ω -1000 Ω 1000 Ω -10,000 Ω As per sample.	02 pieces
93.	Rheostat		1. 30 Ω , 2A ureka wire 27 No. base phylum /plastic sheet 170x50mm thickness, 6mm side support aluminium/ABS plastic rider width copper contactor	01 each

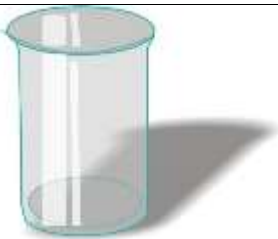
			34mm. 2. 200 Ω , 1A ureka wire 34 No. base phylum /plastic sheet 170x50mm thickness 6mm side support aluminium/ABS plastic rider width copper contactor 34mm. As per sample	
94.	Sand paper and emery Paper		Sand paper 120 No. Emery paper 100 No. As per sample	One sheet each
95.	Set of resistors 5 Ω (one no.), 10 Ω (One no), 20 Ω (Two nos), 30 Ω (One no),		15 mm x 15 mm x 125 mm with nichrome wire resistance, embedded in plastic case with terminal As per sample	01 set
96.	Solenoid coil with removable iron core		Coil with inner dia 20mm (core) with 400 turns of 26SWG enameled copper wire. Removable core of dia 16mm and length 75/80mm (iron or ferrite core) As per sample	01
97.	Straw		As per sample	10 pieces
98.	bulb holder with Torch		2.5v bulb with holder and strips for connection compulsory As per sample	6 each
99.	Transparent glass plate		100mm x100 mm x 3mm	01
100.	Variable power supply		Regulated independent two power supply with rating 0 to 15V, 500mA. Individual power switch. Case should include terminal ports for output, knob to vary	01

			voltage. Provided in a box of size (60x90x 90mm) with 1-1/2 m long wire, power cable joined with two/three pin plug As per sample	
101.	Zener diode		1N-758 10V Zener As per sample	10 pieces
102.	Bread board		Standard dimension. As per sample	1
103.	Banana plug connecting wire		Standard with two way connection. Five red wires and five black. As per sample.	05 sets
104.	Crocodile Clips		Clips 38 mm, Plated, standard flexible wire 50 cm long. Each set of two wires. As per sample.	05 sets
105.	Glass Dropper with rubber bulb		Borosilicate glass, length 100 mm, capillary length 20 mm, dia 06 mm. As per sample.	02 Nos.
106.	Meter Bridge		Two part assembly with 0-50cm scale on one part and 50-100 cm scale on other part. Maximum length and width of each part should be 55 cm and 7.5cm respectively. As per sample.	01

**Sr. Secondary Micro scale Chemistry Laboratory Kit
Technical Specification**

Sl No.	Item Name		Specification	Quantity
1.	Kit Manual		Kit manual is supplied with the kit.	01 No.
2.	Kit Box with carton		Container along with a lid and wheels at the base, attached with two locks on two opposite sides. 50 liters, high density polyethylene material, weight not less than 950gms Overall size approx. 520mm x 380mm x 300mm As per sample	01 No.
3.	Beaker(50 mL)		Borosilicate glass, capacity 50 mL, height 56 mm, diameter 42mm with Graduation. As per sample	03 Nos.
4.	Boiling Tube		90mm x20mm dia. Borosilicate glass. As per sample	04 Nos.
5.	Capillary Tube		Soda glass. As per sample	01 Box
6.	China Dish		Dia. 85 mm. As per sample	04 Nos.
7.	Conical Flask		Borosilicate glass, capacity 25 mL, 50mL and 100mL. As per sample	01 each.

8.	Dispensing Bottle		Low Density Poly Ethylene (LDPE), Capacity 15 mL approx., with screw type cap and nozzle. As per sample	30 Nos.
9.	Pasteur Pipette		Low Density Poly Ethylene (LDPE), capacity 03 mL As per sample	20 Nos.
10.	Glass Dropper with rubber bulb		Borosilicate glass, length 100 mm, capillary length 20 mm, dia 06 mm. As per sample.	04 Nos.
11.	Ignition Tube/Fusion Tube		Soda glass, diameter 05 mm, length 40 mm. As per sample	20 Nos.
12.	Glass Rod		Soda glass, length 150 mm, dia. 5/6 mm. As per sample	04 Nos.
13.	Micro Funnel		Soda Glass, dia 32 mm. x overall size 80mm. As per sample	04 Nos.
14.	Micro Filtration Unit		Borosilicate glass, Boiling Tube : height 80 mm, dia 20 mm, having side tube for fitting rubber bulb, Small rubber bulb, rubber cork fitted with small Hirsch funnel - 01 number. As per sample	04 Nos. unit
15.	Micro Test Tube 2ml.		Borosilicate glass, height 45mm, dia 10 mm. with rim. As per sample	24 Nos.

16.	Micro Beaker		Borosilicate glass, capacity 10mL, height 34 mm dia 25 mm. As per sample	12 Nos.
17.	Micro Measuring Cylinder		High Density Poly Ethylene (HDPE), capacity 10 mL. As per sample	04 Nos.
18.	Micro Burettes packed in 6-ply cardboard carton		Borosilicate glass, capacity 05 mL, rotating screw type flow stop cock with Poly Tetra Fluoro Ethylene (PTFE) key and cup, Least count 0.05 mL ,each burette packed in carton. As per sample	08 Nos.
19.	Micro Test Tube Brush		Soft hair for cleaning 2mL test tube. As per sample	04 Nos.
20.	Petri Dish		Soda glass, without cover, dia 100 mm. As per sample	04 Nos.
21.	Platinum wire/ Nichrome wire		Platinum wire/Nichrome wire (2cm. long) fixed in glass pipe and kept in glass test tube fitted with rubber cork. As per sample	04 Nos.
22.	Micro Spatula		Stainless steel. Overall length 100mm x flat portion 40mm. Scoop 13mm x7mm As per sample	04 Nos.
23.	Spirit lamp		Steel body along with brass wick holder ,dia 65mm, height 50mm As per sample	04 Nos.

24.	Circular Whatman Filter Paper		Dia 125 mm. good quality. As per sample	20 Nos.
25.	Mercury Thermometer		Glass, mercury filled, graduation 0 - 250° C, sub division 1.0° C. packed in plastic box As per sample	02 Nos.
26.	Digital Thermometer with button cell.		Range -50° C to 300° C. °C and F selectable display, memory of last measure. Accuracy: 0.1° C As per sample	01 No.
27.	Tripod stand		Height 100mm, cast iron top 7x7x7cm triangle, legs with dia 4mm of iron body. As per sample.	04 Nos.
28.	Micro Test Tube Stand		Acrylic Plastic molded, size 100 mm x 27 mm x 20 mm, 04 blind holes to hold Micro Test Tubes, depth of hole 15mm. As per sample.	04 Nos.
29.	Two - Way Burette Clamp and Stand		For Base : Mild Steel Sheet 140 mm x 160 mm x 16 SWG. For Stand: Mild Steel Rod 06 mm dia, 280 mm length. Mild Steel Nut 06 mm, Fly Nut 06 mm, 06 mm Washer. Spring Steel Strip 80 mm x 08 mm x 20 SWG to hold 02 burettes. As per sample.	04 Nos.
30.	Micro Test Tube Holder		Wooden handle to hold the 10mm micro test tube. As per sample	04 Nos.
31.	Vial		High Density Poly Ethylene (HDPE), height 55 mm, dia 15 mm. As per sample	20 Nos.

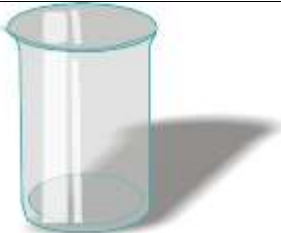
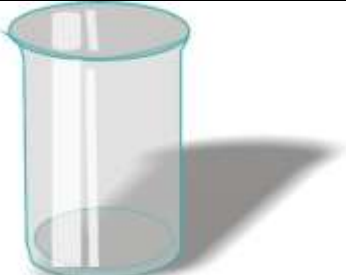
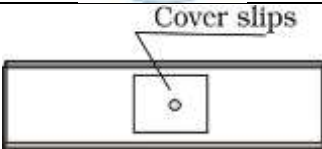
32.	Watch Glass		Soda glass, dia 50 mm. As per sample	04 Nos.
33.	Micro Test Plate/Well plate		Polystyrene (PS) with 96 wells. As per sample	04 Nos.
34.	W -Tube		Borosilicate glass, 2 mm thick x 8 mm dia having arms of length 70-75 mm, with wide mouth in one arm. As per sample.	10 Nos.
35.	Wire gauze		100 mm x100mm with frame As per sample	04 Nos.
36.	Wash Bottle		LDPE, capacity 125 mL. As per sample	02 Nos.
37.	Calorimeter with 50 mL capacity beaker		Borosilicate glass, 50 mL capacity, glass beaker inserted in Low Density Poly Ethylene (LDPE) foam case 100x 75 x 130mm with the lid. As per sample.	01 No.
38.	Electrodes Copper & Zinc		Copper strip, length 80 mm, width 5 mm. x thickness 1 mm. Zinc strip, length 80 mm width 5 mm x thickness 1 mm.	Four each
39.	Emery paper		100 No. As per sample	One sheet
40.	Multimeter		Pocket size digital high impedance As per sample	One

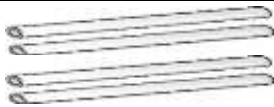
41.	Pocket Balance		MH series Pocket Scale Calibration : Auto calibration Tare Range : Tare full Capacity. Operation Temperature :10°C - 30° C As per sample	01 No.
42.	Parchment/ cellophane		paper (9 cm×14.5 cm),100 leaves As per sample	one packet
43.	Stirrer		Soda glass with circular flat end, length 100 mm x 4 mm dia. As per sample	04 Nos.
44.	Stopwatch		Water resistant lithium battery. As per sample	02 Nos.
45.	Thread roll		Thread roll small As per sample	01 No.
46.	Volumetric flask		Borosilicate glass with stopper 25 mL As per sample	04 Nos.
47.	Universal indicator		1 paper box containing 10 booklets As per sample	2 paper boxes
48.	Red and Blue litmus paper		Each booklet 50 sheets As per sample	Five booklets each
49.	Forceps		SS length 100 mm As per sample	04 Nos.
50.	Plastic Box		For packing glass items 225×125×85 mm 235×150×75mm As per sample	One each

51.	Chromatography Jar		Soda glass, height 215 mm, dia 50 mm. with plastic/glass cover fitted with cork and hook. As per sample.	01 No.
52.	Glazed tile		White, 4" × 4"	01 No.
53.	Gas Generator		Borosilicate boiling tube dia. 22, inner dia. 20 mm. Length 95 mm fitted with 14 mm holed cork and another borosilicate tube of dia. 15 × 125 mm.length,2 mm hole on bottom with 6 mm holed cork fitted on top and 'L' plastic/glass tube fitted in this cork and PVC tube dia. 6 mm fitted on one end of 'L' type tube , length 200 mm and nozzle fitted on another end.	01 No.

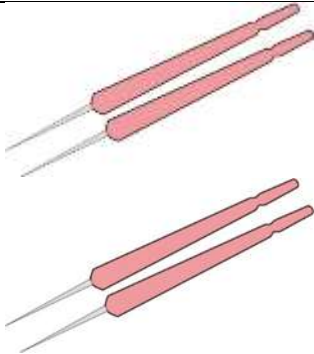
**Senior Secondary Biology Lab Kit
Technical Specifications**

Sl. No	Name of the Item		Technical Specification	Quantity
1.	Kit manual		Kit manual is supplied with the kit.	01 No.
2.	Kit box with carton		Main Body of 26 SWG and partitions of tin sheet. Doors will be fitted 15 mm above the ground level with main body. Right hand door and left hand door should have two racks. The rack partition should have guides (as per sample). The doors should have suitable piano hinges duly spot welded/riveted etc. with main body. Provision for locking system (as per sample) & two folding type handles 6 mm dia for carrying box. Provision for supporting rest for hanging doors to be made as per sample. All over box size 470 x 450 x 280mm box weight not less than 5.75 kg As per sample	01 No.
3.	Test tube		Borosilicate glass tube dia 15x125mm. length with rim. As per sample	12 Nos.

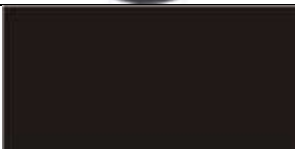
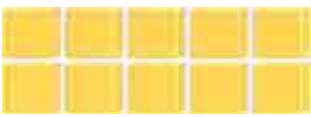
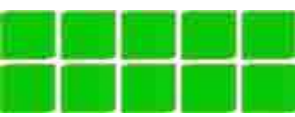
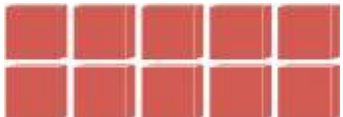
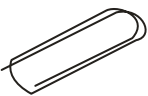
4.	Boiling test tube		Borosilicate Boiling test tube 25mm x 150mm length with rim. As per sample	2 Nos.
5.	Plastic Beaker		capacity 100 mL, height 60 mm, dia 50mm. with rim As per sample	2 Nos.
6.	Plastic Beaker		Plastic beaker 250 ml, Height 95mm x dia.70mm approx. As per sample	2 Nos.
7.	Plastic Beaker		capacity 50 mL, height 56 mm, dia 42mm with rim As per sample	2 Nos.
8.	Glass rod		Length 150mm, dia 07mm As per sample	2 Nos.
9.	Glass Slides (plain)		Standard glass item 75mmx 25mm x 1mm thick (one box of 50 slides) As per sample	2 boxes
10.	Watch glass		Soda glass, 50 mm dia As per sample	2 Nos.
11.	square cover slip		Thickness 0.2mm-0.3mm approx., square glass pieces As per sample	2 pkts.
12.	Petridish		Plastic dish, outer dia.110/115mm x 28/30mm depth. As per sample	2 Nos.

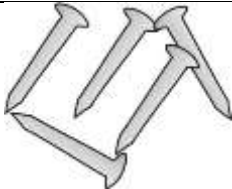
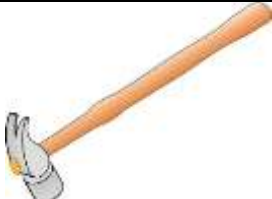
13.	Funnel		Plastic, transparent top dia. 90mm x overall length 140 mm As per sample	2 Nos.
14.	Measuring cylinder (plastic)		100 ml As per sample	1No.
15.	Measuring cylinder (plastic)		50 mL. As per sample	1No.
16.	Measuring cylinder		Plastic, transparent with built in base, 10mL ,graduation of 1mL As per sample	1 No.
17.	Capillary tubes		Soda glass. Dia. 1.5mm x 100mm As per sample	1 pkt.
18.	Pipette		Borosilicate, 10 mL Graduated As per sample	2 Nos.
19.	Conical flask		Capacity 100 mL, borosilicate glass As per sample	2 Nos.

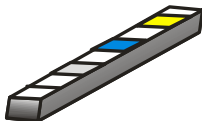
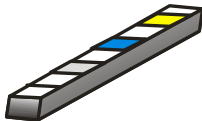
20.	Cavity slide		75mmx25mm with single cavity, 12 pieces As per sample	1 pkt.
21.	Pipette (Plastic)		Low Density Poly Ethylene (LDPE), capacity 3 mL As per sample	6 Nos.
22.	Test tube stand		For 6 Test Tubes, Plastic, Length 200 mm height 80mm to hold the test tubes one upto 15 mm dia and another of 25 mm dia., As per sample	01 each
23.	Dropping bottle		Plastic dropping bottle 60 ml capacity As per sample	12 Nos.
24.	Glass Dropper		Length 100mm, capillary length 50mm, dia 06mm As per sample	10 Nos.
25.	Wash bottle		LDPE, capacity 125mL. good quality. As per sample	1 No.

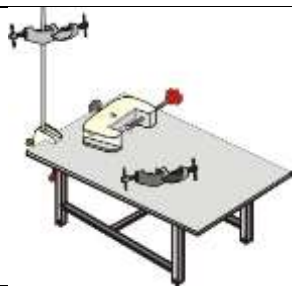
26.	Muslin cloth		15cm x 15 cm As per sample	1 No.
27.	Lens cleaning fluid		50 ml As per sample	1 bottle
28.	Lens cleaning paper		1 booklet As per sample	1 booklet.
29.	Dissecting needles		length 120mm, with plastic handle As per sample	4 Nos.
30.	Sharp edged knife		100mmx1.5mm, hardened steel, with wooden/plastic handle. As per sample	1 packet
31.	Razor Blade		Shaving blade. 1 packet As per sample	1 No.
32.	Blade with holder		As per sample	1 No.
33.	Thread		1mm thick roll As per sample	1 roll
34.	Brush		Painting brush, Soft hairs. As per sample	3 Nos.

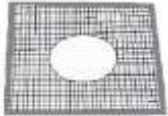
35.	Surgical Gloves		As per sample	4 pairs.
36.	Thumb pins		As per sample	1 pkt.
37.	Rubber bands		Plastic Rubber bands 30 pieces As per sample	1 pkt.
38.	Surgical Scissors		125 mm, one prong blunt and other pointed, standard As per sample	4 Nos.
39.	Cotton wool (absorbent)		Weight: 50gm one roll As per sample	2 rolls
40.	Cavity block tile		95mmx70mmx18mm, with 6/12 cavities As per sample	2 Nos.
41.	Measuring tape		Tailor measuring tape As per sample	1 No.
42.	Glue		50 g As per sample	1 bottle

43.	Split rubber cork		No.7 As per sample	1 No.
44.	Cork with a hole		Standard, size no.7 5mm hole As per sample	1 No.
45.	Black paper		Thick A4 size As per sample	1 sheet
46.	Spatula		Stainless steel, 100mm approx. length As per sample	1 No.
47.	Yellow plastic beads/cubes		1 c.c. cube, 72 in no. packed in plastic zipper bags As per sample	1 bag.
48.	Green plastic beads/cubes		1 c.c. cube, 72 in no. packed in plastic zipper bags As per sample	1 bag.
49.	Red plastic beads/cubes		1 c.c. cube, 72 in no. packed in plastic zipper bags. As per sample	1 bag.
50.	White plastic beads/cubes		1 c.c. cube, 72 in no. packed in plastic zipper bags As per sample	1 bag.
51.	Zipper plastic bags		Polythene bags with Zip (5"x4") As per sample	10 Nos.
52.	Paper clips		U type As per sample	1 pkt.
53.	Tags		20 in nos. As per sample	1 pkt.

54.	Rope		4 m. in 4 mmdia As per sample	1 roll
55.	Nails		Length 38 mm, 15 SWG As per sample	5 Nos.
56.	Claw Hammer		Forged, approximate weight 225 gm with wooden handle As per sample	1 No.
57.	small cotton towel		40 cm x 60 cm	1 No.
58.	Herbarium sheets		42cm x 29 cm standard As per sample	2 Nos.
59.	Chromatography paper		Whatman paper No.1, 6"x6" sheets As per sample	6 sheets
60.	Graph paper		A4 As per sample	10 sheets
61.	Scalpel		S.S., length 150mm approx. As per sample	01

62.	Blotting paper		30 cm x 50 cm As per sample	5 Nos.
63.	Filter paper		Ordinary, Circular of 11cm dia, 100 pieces As per sample	1 pkt.
64.	pH indicator paper		pH 1-11, paper box containing 10 booklets. (narrow range) As per sample	5 boxes
65.	pH indicator paper		pH 1-14, paper box containing 10 booklets (broad range) As per sample	5 boxes
66.	Petroleum jelly		50 g. packed in container As per sample	1 No.
67.	Dissecting scissors		125 mm, both pointed, standard. As per sample	1 No.
68.	Forceps		Stainless steel, length 100mm. As per sample	2 Nos.
69.	Test tube holder		Wooden handle, length 200 mm to hold the test tubes upto 25 mm dia., plated. As per sample	2 Nos.

70.	Mortar and pestle		Glassware mortar, 75 mm dia., height 55 mm and pestel dia.25mm length 175mm As per sample	1 set
71.	Alcoholic Thermometer		Glass, alcohol filled, -10° C to 110° C, graduation 1° C with card board/plastic cover and cotton at both ends. As per sample	1 No.
72.	Laboratory Stand 1. Boss head 2. Clamp 3. G clamp 4. MS Rod 5. MS base Plate		MS rod dia. 10mm x 375 mm long, MS base, CI Boss head, G clamp and aluminium clamp. As per sample	1 No. each (Total 05 items)
73.	Spirit Lamp		Steel body along with brass wick holder dia 65mm, height 50mm As per sample	01 No.
74.	Pocket Balance		MH series Pocket Scale Calibration : Auto calibration Tare Range : Tare full Capacity. As per sample	01 No.
75.	Tooth Picks		Box of Tooth picks As per sample	01 Box

76.	Tripod stand		Height 100mm, cast iron top 7x7x7cm triangle, legs dia 4mm, iron body. As per sample	01 No.
77.	Wire Gauze		100mm x 100 mm with bidding As per sample	01 No.
78.	Dispensing bottle		Low Density Poly Ethylene (LDPE), capacity 15 mL approx., with screw type cap , nozzle. As per sample	12 Nos.
79.	Square Container box		50g to 100g capacity As per sample	12 Nos.
80.	Plastic boxe		Packing for glassware and other loose items, assorted size As per sample	4 Nos.
81.	Magnifying Glass		Optical glass, focal length 120 mm, with plastic handle/steel handle As per sample	1 No.
82.	Compound Microscope (optional)		ISI based microscope, Metal Body, overall height approx. 320 mm, base 125 mm x 200 mm. Achromatic good quality lenses. Two Objectives of 10x& 45x. Two Eyepieces of 10x	1 No.

			&15x having coarse fine motion & fixed condenser.	
			As per sample	
83.	Slide Box		100x80x32mm height, joint flap type for 50 slides. As per sample	1 box
84.	Human Skeleton (Synthetic)		Overall length of skeleton 425mm (approx.), base and supporting strip are also provided, Standard. As per sample.	1 No.

Twelve Acrylic embedded specimens packed in cardboard box				
85.	Lichen	As per sample		01
86.	Dryopteris	As per sample		01
87.	Salvinia	As per sample		01
88.	Pistia	As per sample		01
89.	Hydrilla	As per sample		01
90.	Marsilea	As per sample		01
91.	Marchantia	As per sample		01
92.	Funaria (Moss)	As per sample		01
93.	Utricularia	As per sample		01
94.	Legume (Pea) root nodules	As per sample		01
95.	Oxalis plant whole with cleistogamy	As per sample		01
96.	Pea / lentil plant with tendrils	As per sample		01

Chemicals			
97.	Buffer Capsule Ph 9	As per Sample	1 bottle
98.	Buffer Capsule Ph 7	As per Sample	1 bottle
99.	Buffer Capsule Ph 4	As per Sample	1 bottle
Permanent Slides			
100.	T.S. of Nerium leaf	All slides packed in plastic box. As per Sample	01
101.	T.S. of lotus petiole / stem	All slides packed in plastic box. As per Sample	01
102.	V. S. of shoot apex & root apex of a dicot.	All slides packed in plastic box. As per Sample	01
103.	Macerated Bougainvillea Xylem & Phloem	All slides packed in plastic box. As per Sample	01
104.	Macerated Tridax stem Xylem & Phloem	All slides packed in plastic box. As per Sample	01
105.	Bacteria Spirillum	All slides packed in plastic box. As per Sample	01
106.	Oscillatoria	All slides packed in plastic box. As per Sample	01
107.	Spirogyra	All slides packed in plastic box. As per Sample	01
108.	Rhizopus	All slides packed in plastic box. As per Sample	01
109.	Yeast budding	All slides packed in plastic box. As per Sample	01
110.	Amoeba	All slides packed in plastic box. As per Sample	01
111.	Entamoeba	All slides packed in plastic box. As per Sample	01
112.	Plasmodium	All slides packed in plastic box. As per Sample	01
113.	T. S. Stem of Sunflower	All slides packed in plastic box. As per Sample	01
114.	T.S.Stem of Maize	All slides packed in plastic box. As per Sample	01
115.	T.S.Root of Sunflower	All slides packed in plastic box. As per Sample	01
116.	T. S. Root of Maize	All slides packed in plastic box. As per Sample	01
117.	T. S. of stem showing Collenchyma	All slides packed in plastic box. As per Sample	01
118.	T. S. of stem showing Sclerenchyma	All slides packed in plastic box. As per Sample	01
119.	T.S.of stem showing Parenchyma	All slides packed in plastic box. As per Sample	01
120.	V. S. of ovule showing embryo sac	All slides packed in plastic box. As per Sample	01
Stages of meiosis in pollen mother cells (Onion) showing following stages			
121.	Prophase – I Leptotene-Zygotene	All slides packed in plastic box. As per Sample	01
122.	Prophase – I Pachytene	All slides packed in plastic box. As per Sample	01

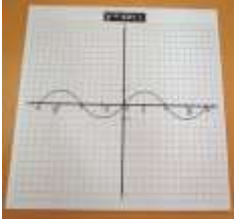
123.	Prophase – I Diplotene-Diakinesis	All slides packed in plastic box. As per Sample	01
124.	Metaphase – I	All slides packed in plastic box. As per Sample	01
125.	Anaphase – I	All slides packed in plastic box. As per Sample	01
126.	Telophase – I	All slides packed in plastic box. As per Sample	01
127.	Metaphase – II	All slides packed in plastic box. As per Sample	01
128.	Anaphase – II	All slides packed in plastic box. As per Sample	01
129.	Telophase – II	All slides packed in plastic box. As per Sample	01
Stages of mitosis (Onion root tip) showing the following stages			
130.	Prophase	All slides packed in plastic box. As per Sample	01
131.	Metaphase	All slides packed in plastic box. As per Sample	01
132.	Anaphase	All slides packed in plastic box. As per Sample	01
133.	Telophase	All slides packed in plastic box. As per Sample	01

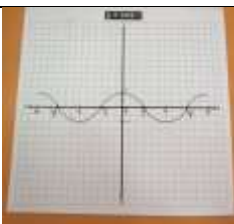
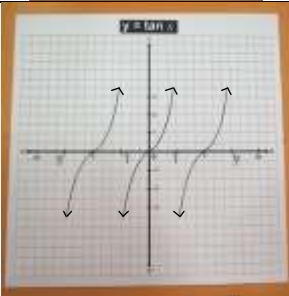
Visual Cards :Size 21 cm x 30 cm ,plastic coated card			
134.	Amoeba	Standard. As per sample.	01
135.	Plasmodium	Standard. As per sample.	01
136.	Hydra	Standard. As per sample.	01
137.	Liverfluke	Standard. As per sample.	01
138.	Ascaris	Standard. As per sample.	01
139.	Earthworm	Standard. As per sample.	01
140.	Leech	Standard. As per sample.	01
141.	Cockroach	Standard. As per sample.	01
142.	Honey Bee	Standard. As per sample.	01
143.	Silk moth	Standard. As per sample.	01
144.	Palaemon	Standard. As per sample.	01
145.	Pila	Standard. As per sample.	01
146.	Starfish	Standard. As per sample.	01
147.	Scoliodon	Standard. As per sample.	01
148.	Labeorohita	Standard. As per sample.	01
149.	Ranatigrina	Standard. As per sample.	01
150.	Calotes	Standard. As per sample.	01
151.	Pigeon	Standard. As per sample.	01
152.	Rabbit	Standard. As per sample.	01
153.	Bacteria	Standard. As per sample.	01
154.	Oscillatoria	Standard. As per sample.	01
155.	Spirogyra	Standard. As per sample.	01
156.	Agaricus	Standard. As per sample.	01
157.	Lichen	Standard. As per sample.	01

158.	Marchantia	Standard. As per sample.	01
159.	Funaria	Standard. As per sample.	01
160.	Dryopteris	Standard. As per sample.	01
161.	Pinus	Standard. As per sample.	01
162.	Male and Female Reproductive Organ – Pinus	Standard. As per sample.	01
163.	Stem modification: Storage (Tuber, bulb, rhizome)	Standard. As per sample.	01
164.	Stem modification: Vegetative propagation (Sucker, Runner, Stolon, Offset)	Standard. As per sample.	01
165.	Stem modification: Support and Defense	Standard. As per sample.	01
166.	Leaf modification: Storage and protection	Standard. As per sample.	01
167.	Leaf modification: Support and insect trapping	Standard. As per sample.	01
168.	Root modification for storage: Radish, Carrot, Beet, Turnip, Sweet potato	Standard. As per sample.	01
169.	Root modification for Nodulation and Breathing	Standard. As per sample.	01
170.	Root modification for Support	Standard. As per sample.	01
171.	Stages of Mitosis	Standard. As per sample.	01
172.	Stages of Meiosis	Standard. As per sample.	01
173.	Spermatogenesis	Standard. As per sample.	01
174.	Oogenesis	Standard. As per sample.	01
175.	T.S. Blastocyst	Standard. As per sample.	01
176.	Photomicrographs of Cardiac, Skeletal and Smooth muscle	Standard. As per sample.	01
177.	Blood Cells	Standard. As per sample.	01
178.	Adaptations: Xeric (animals) (Camel, Rattle snake, Chameleon)	Standard. As per sample.	01
179.	Adaptations: Aquatic (animals) (Duck, Fish, Penguin, Dolphin)	Standard. As per sample.	01
180.	Adaptations: Xerophytes (Plants) (Acacia, Aloe, Opuntia, Cycas)	Standard. As per sample.	01
181.	Photomicrographs of Cardiac Skeletal and Smooth muscle	Standard. As per sample.	01
182.	Homologous organs (Animals & Plant)	Standard. As per sample.	01
183.	Analogous organs (Animals & Plant)	Standard. As per sample.	01

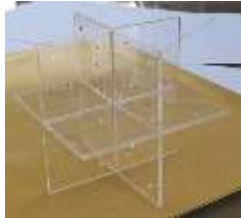
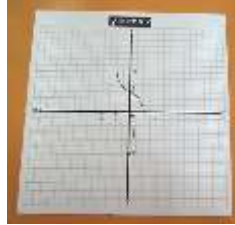
SENIOR SECONDARY MATHEMATICS LAB Kit
Technical Specifications

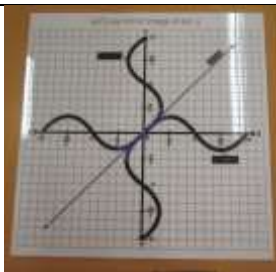
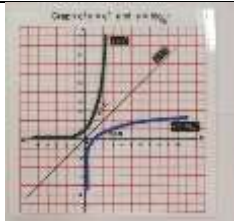
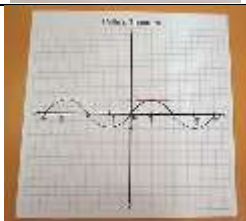
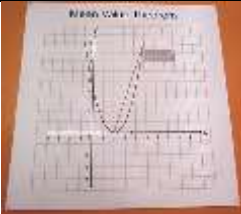
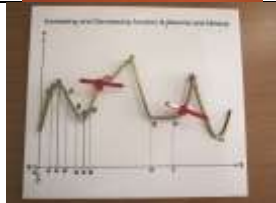
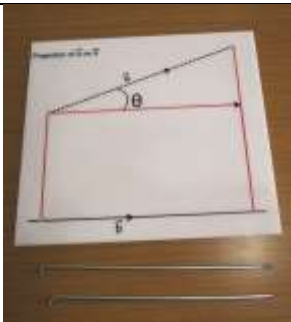
Sl. No.	Name of the item	Figure/stapes	Technical Specification	Quantity
1	Kit manual		Kit manual along with kit	1 No.
2	Kit Box		Container along with a lid and wheels at the base, attached with two locks on two opposite sides. 30-35 liters, high density polyethylene material As per sample	
3	Sets	  	(i) Base sheet of size 125 x 125mm (thickness-3.5/4mm) in green colour marked 'A' on both sides. 40mm dia. Round disc in red colour with 2 mm thickness in the center which is fixed in a round jigsaw cut and 'B' marked on red colour disc. (ii) Base sheet of size 125 x 125mm (thickness-5.3 mm) in green colour marked 'A'. 80mm dia. round, red colour disc with 1.8mm thickness marked 'B' & red ring with thickness 1.8mm with outer diameter 80mm with hole in center marked 'B' and yellow disc marked 'C' of 40mm dia. and thickness 1.8mm jigsaw cut contained in red ring. (iii) Base sheet of size 125 x 125 x 3.5mm in green colour marked 'P', 2 discs (out of which one disc in blue colour with 70mm dia. marked 'Q' and having 19mm arc shaped cutting & other in yellow colour with 50mm dia. marked 'S' and having 19mm arc shaped	(i) One set (ii) One set (iii) One set

			cutting).Both discs intersect each other to generate an arc type cutting of width 19 mm in between with red colour and of same thickness marked 'R' which represents '$Q \cap S$'.All discs marked P,Q,R and S should have thickness 2 mm. (iv) Base sheet in green colour with size 125 x 125 x 4mm. Three discs (out of which one disc in blue colour with 70mm dia and one circle in red colour with 60mm dia & one circle in yellow colour with 50 mm dia). All three discs intersect each other generating a shape with black colour in the center along with generating white colour between any two intersecting discs, made of plastic. Mark 1 on green square sheet, 2 on yellow disc, 3 on blue disc, 4 on red disc, 5, 6 & 8 on white pieces and 7 on black piece. All pieces have the same thickness of 2 mm. All items as per sample	(iv) Three sets
4	Relations and functions		Size 225 x 225 x 3.5-4mm in white colour with 2 elliptical shaped pieces in yellow colour pasted on white sheet. 10 different pieces with round edges of size 55 x 22 x 1.8mm each with center hole. Print Ali, Bhanu, Chavi, Divya, Ekta, Mohan and a, b, c, d, e and m as per sample. 10 elastics with 1 arrow and 2 lugs on both ends. Also 20 nos. aluminum dowels of 3mm dia with appropriate height made of plastic. As per sample.	One set
5	Trigonometric function (sin x)		Plastic transparent sheet of size 200 x 200 x 0.3mm. Graph printed as per sample. As per sample	one

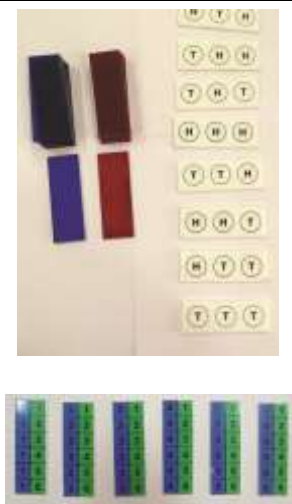
6	Trigonometric function ($\cos x$)		Plastic transparent sheet of size 200 x 200 x 0.3mm. Graph printed as per sample. As per sample	one
7	Trigonometric function ($\tan x$)		Plastic transparent sheet of size 200 x 200 x 0.3mm. Graph printed as per sample and arrow to be marked on $\tan x$ graph. As per sample	one
8	Principal of mathematical induction		Plastic sheet of size 200 x 60 x 12 mm, 5 multi coloured discs of dia. 65mm - Yellow, dia 60mm - White, dia. 55mm - Green, dia. 50mm - Blue and dia. 45mm - Red. All discs with center hole and thickness 2mm. Also 3 plastic dowels made of polymer. Centre distance between one pillar to another pillar 66mm. Height of pillar 30mm. As per sample.	One set
9	Complex numbers		Plastic sheet of size 200 x 200 x 3.4mm. Graph printed on white plastic with 2 different coloured arrows having 2mm dia and length 80mm, steel wire bended in L shape. As per sample.	One set
10	Permutation and combination		Plastic sheet of size 205 x 230 x 3.2/3.5mm Rectangular pieces with multi colour printing and 2 jigsaw cuttings inside for fixing 2 strips of 1.8 mm each made of plastic. As per sample.	one

11	Arithmetic mean and geometric mean		One red square piece of plastic sheet of size 60 x 60 x 2 mm and 4 rectangular pieces of size 90 x 30 x 2 mm each in yellow, orange, blue & green colour made of transparent plastic. As per sample	One set
12	Sum of first n natural numbers and sum of cubes of first n natural numbers		White piece of plastic sheet of size 200 x 225 x 6 mm with 100 inbuilt aluminium pins of height 2mm, equidistant, in ten rows to hold square pieces. 110 square pieces of size 20 x 20 x 2 mm with colours (White-2, Red-10, Green-30 & Blue-68) with center hole. Also 1 small name plastic strip of size 160x200x 2mm with printing on both sides which can be fitted on the big white piece. As per sample.	One set
13	Sum of squares of first n natural numbers		ABS plastic cubes with sides 20mm accurate size, 5 mm to 8 mm dia holes, with depth of 5mm on five faces. Sixth face will have a Leg to push fit into the holes. (Unfix cubes). As per sample.	180 cubes in 6 different colours (30 cubes of each)
14	Conic section		Four different parts constituting a cone of base dia. 60 mm and total height of 75 mm in 2 different colours showing sectional cuttings of circle, ellipse and parabola made of plastic showing their borders clearly. One hole of 2mm dia. running from top to bottom of both the cones. One 2mm dia. steel rod of length 160mm. As per sample	2 sets
15	Demonstration board of ellipse		Size 235 x 235 x 16 mm board. One side permanent graph printing in black colour on ceramic white steel sheet and other side covered with laminated sheet. All four sides covered with round aluminum Channel and four corners fitted by first quality ABS corner. 2 screws fixed on the top of the graph with long life thread tied for experiment.	one

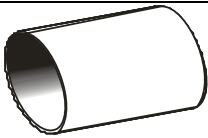
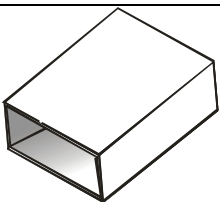
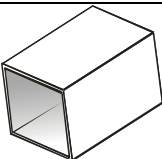
			As per sample.	
16	Three dimension	 	14/1 Size 100 x 100 X 2.5 Plastic sheet with jigsaw cuts on each side along with small holes on the sheet as per sample. 2 small rectangle sheets of size 100 x 50 x 2.5 mm with jigsaw cutting and holes and 2 small rectangle sheets of size 100 x 50 x 2.5 mm with jigsaw cutting. Two iron rod as per hole diameter and length 100 mm. 14/2 Transparent sheet plastic cuboid with size 50 x 60 x70 mm open from one side, along with 4 Steel rod of appropriated size 104mm should be equal. As per sample.	One each
17	Limit and continuity		Size 200 x 200 x 4 mm 3 movable arrows working on particular path of graph made of plastic and two arrows extra provide as per sample. Packed in plastic box. As per sample.	one
18	Inverse trigonometric function ($\sin^{-1}$)		Plastic transparent sheet of size 200 x 200 x 0.3 mm. Graph printed. As per sample.	one
19	Inverse trigonometric function ($\cos^{-1}$)		Plastic transparent sheet of size 200 x 200 x 0.3 mm .Graph printed. As per sample.	one
20	Inverse trigonometric function ($\tan^{-1}$)		Plastic transparent sheet of size 200 x 200 x 0.3 mm .Graph printed. As per sample.	one

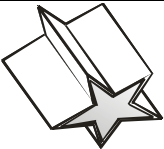
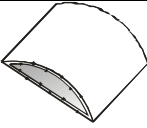
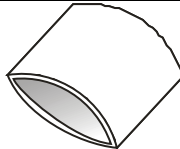
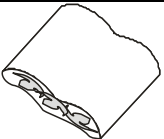
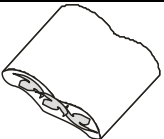
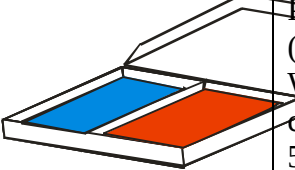
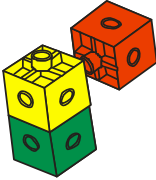
21	Inverse trigonometric function ($\sin x$ and $\sin^{-1}x$)		Plastic sheet board of size 200 x 200 x 3.6 mm, working graph, 4 holes at the back side of 2mm dia. for removing the graphical curve. As per sample.	one
22	Graph of ($y=e^x$ and $y=\log_e x$)		Plastic sheet of size 200 x 200 x 3 / 3.5mm, working graph with 6 holes for the slope at the back side for removing the graphical curve. As per sample.	one
23	Rolle's theorem		Plastic transparent sheet of size 205 x 205 x 0.3mm, Graph printed. As per sample.	one
24	Lagrange's mean value theorem.		Plastic transparent sheet of size 200 x 200 x 0.3 mm, Graph printed. As per sample.	one
25	Increasing and decreasing, maxima and minima.		Plastic sheet of size 225 x 200 x 3.5/4 mm, 2 movable arrows working on particular path of graph made of plastic as per sample and packed in plastic box. As per sample.	one
26	Integral		Paper graph in three different colours blue, yellow and pink but curve shapes should be same for all three sets. As per sample.	Three each
27	Projection of Vector a on vector b		Plastic sheet of size 225 x 300 x 3.5/4 mm with two steel rods of dia. 4 mm. Both rods 5 mm bent at one end after the lengths of 180 and 160 mm. Working model. As per sample.	One each

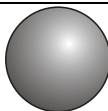
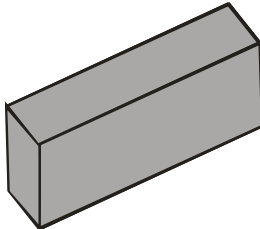
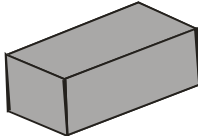
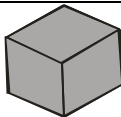
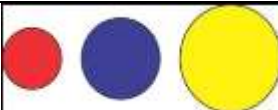
28	$\vec{a} \cdot (\vec{b} \times \vec{c})$		Parallelepiped, each rectangular side of 100 mm length and 60 mm width. Rods of diameter 5mm ,height 55mm made of plastic. Arrow marked to show vectors a, b, c As per sample.	one
29	Distance between two skew lines		Four plastic pipe pieces of dia 30/ 32 ,length 50mm, internaldia 24mm.Three holes of 2mm dia on each pipe ,distance between successive holes 12mm. Two steel rods of dia 2mm, length 200 mm and one steel rod of dia 2mm ,length 50mm. As per sample.	One set
30	Intersection of two planes		Plastic white sheet of size 200 x 200 x 3.5/4 mm with a V shape – slot of 1.8/2 mm depth with 2 square plates coloured blue and yellow of size 100 x 100 x 1.5/2 mm made of plastic. As per sample.	One each
31	Plane passing through the line of intersection of two plane		Plastic white sheet of size 200 x 200 x 3.5/4 mm and 3 square sheetscoloured red, blue and yellow ,size 100 x 100 x 1.8/2 mm, made of plastic. And three slot cuttings on base sheet as per colouredsheetsthickness anddepth 1.8/2 mm As per sample.	one each
32	Angle between two planes		Plastic sheet of size 200 x 70/75 x base height 15mm , one plastic sheet joined with hinge on top side size 100mm x 75mm x sheet thickness 5 mm. Fix one half protractor on one side of base as per sample. And two steel rods,onefixed at right angle to the base and another to the plastic sheet joined. And one half protractor fixed on steel rod perpendicular to the base as per sample. Packed in plastic box As per sample	One
33	Linear programming		1. Plastic sheet size 200 x 200 x 4 mm. White sheet with graph. Sides as per graph , make 2mm holes on every line of the border line on all four	One

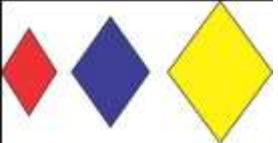
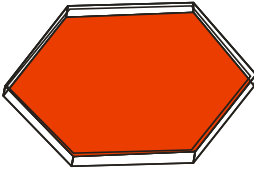
			sides. As per sample. 2. Plastic transparent sheet one is 210 x 180mm x 0.3 mm for linear programming (maximization problem) and another three sheets for linear programming (minimization problem) 3. Aluminum dowels 2 mm x 15mm length with head. 4. Five elastics with three arrows yellow, Red and Green fixed on every elastic. One elastic 50mm two elastics 70mm & two other elastics 120mm with terminal, as per sample As per sample	3 pcs each 30 pcs 5 pcs
34	Probability		1. Size 70 x 25 x 3 mm ,rectangular sheets having 8 pieces each of 10 transparent red & blue colour and 8 pieces in white opaque colour with printing.Made of plastic with tray. 2. Size 60 x 20 x 1.6 / 2.5 mm,Six rectangular pieces made of plastic as per sample with 8.5 mm round coins. 15 pieces in three colours. As per sample.	One set

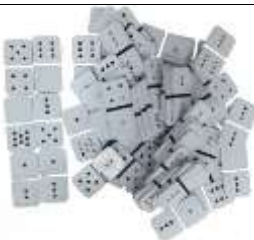
EARLY SCHOOL MATHEMATICS LEARNING KIT*

S.no	Name of Items		Specification	Quantity
1.	Kit box with carton		Plastic Molded box in green color, overall size 340mm x 340mm x 110mm and sheet thickness 5mm, joined with two pins and top side transparent molded sheet to visualise items of the kit. Corners rounded and handle for carrying with locking system, engraving on outer surface. As per sample.	01 No.
2.	Clock		A plastic round disc of 110mm x 110mm and 0.7mm thickness, of polypropylene plastic sheet, 12 markings along with numbers 1-12 printed on the circumference of the circle in black ink. Centre knob fixed by reverse rivet to hold movable hands of 50 mm and 30 mm. The ink should be free from any hazardous substance for which documentary proof should be submitted. As per sample.	1 set
3.	Stamp cum container (Cylinder)		A one side open transparent ABS plastic cylinder of 38mm length x 25mm dia and 1.5mm thickness. As per sample	1 no.
4.	Stamp cum container (Cuboid)		A one side open transparent ABS plastic cuboid of dimensions 38mm (Length) x 25 mm (width) x 38 mm (height) and 1.5mm thickness As per sample	1 no.
5.	Stamp cum container (Prism)		A one side open transparent ABS plastic Prism container of dimensions, 44mm (Length) x 24mm (width) and 1.5mm thickness As per sample	1 no.
6.	Stamp cum container (Cuboid)		A one side open transparent ABS plastic container of dimensions 38mm (Length) x 25mm (width) x 25mm (height) and 1.5mm thickness, material capable of retaining ink for stamping. As per sample	1 no.

7.	Stamp cum container (Star)		A one side open transparent ABS plastic star shape container of dimensions 38mm (Length) x 25mm (width) and 1.5mm thickness As per sample	1 no.
8.	Stamp cum container (half Leaf)		A one side open transparent ABS plastic leaf shape container of dimensions 38mm (Length) x 38mm (width) and 1.5mm thickness with a half elliptical top As per sample	1 no.
9.	Stamp cum container (Leaf)		A one side open transparent ABS plastic leaf shape container of dimensions 38mm (Length) x 38mm (width) and 1.5mm thickness in elliptical shape top As per sample .	1 no.
10.	Stamp Design (Fish)		Plastic Stamp of fish having dimensions 38 mm x 55mm with inbuilt design fixed on block. As per sample	1 no.
11.	Stamp Design (motif)		Plastic Stamp in motif having dimensions 38 mm x 55mm with inbuilt design fixed on block. As per sample	1 no.
12.	Stamp Pad		Plastic sheet box of dimensions 75mm (Length) x 54mm (width) x 8mm (height). Whole box divided in two equal parts which contain red and blue ink pads of thickness 5mm As per sample	1 no.
13.	Cube Blocks		ABS plastic cubes with sides 20mm accurate size, 5mm to 8mm dia holes. Depth of 5mm on five faces. Sixth face will have a peg to push fit into the holes.(Unifix cubes) As per sample	50 Cubes in five different colors (10 cubes of each color)
14.	Velcro sheet Cone		Cone size of dia 25mm x 70mm height. Vel and Cro sheets of ivory color pasted equally on each surface on soft polymer cone. As per sample	2 nos
15.	Velcro sheet Disc		Circular Disc size of dia 25mm x 7mm height. Vel and Cro sheet of ivory color pasted equally	4 nos.

			on each surface on soft polymer disc.																	
			As per sample.																	
16.	Velcro sheet cylinder		Cylinder size of dia 20mm x 50mm length. Vel and Cro sheet pasted equally on each surface of ivory color on soft polymer cylinder. As per sample.	4 nos.																
17.	Velcro sheet ball		Ball size of dia 35mm. Vel and cro sheet of ivory color pasted equally on each surface on soft polymer ball. As per sample..	2 nos.																
18.	Velcro sheet Cuboids		Cuboids of size 75mm length x 38mm height x 15mm breadth. Vel and cro sheet of ivory color pasted equally on each surface on soft polymer cuboid. As per sample.	2 nos																
19.	Velcro sheet Cuboids		Cuboids size of 50mm length x 25mm height x 25mm breadth. Vel and cro sheet of ivory color pasted equally on each surface on soft polymer cuboids. As per sample.	2 nos.																
20.	Velcro sheet Cube		Cube size of 25mm. Vel and cro sheets of ivory color pasted equally on each surface on soft polymer cube. As per sample.	4 nos																
21.	Hexagon Shaped Tiles		Regular Hexagon of eva sheet of thickness 5 mm <table><tr><td>Side</td><td>Blue</td><td>Red</td><td>Yellow</td></tr><tr><td>20 mm</td><td>3</td><td>3</td><td>3</td></tr><tr><td>30mm</td><td>10</td><td>10</td><td>10</td></tr><tr><td>40mm</td><td>3</td><td>3</td><td>3</td></tr></table> As per sample.	Side	Blue	Red	Yellow	20 mm	3	3	3	30mm	10	10	10	40mm	3	3	3	
Side	Blue	Red	Yellow																	
20 mm	3	3	3																	
30mm	10	10	10																	
40mm	3	3	3																	
22.	Disc shaped Tiles		Circles of evasheet of thickness 5 mm <table><tr><td>Dia</td><td>Blue</td><td>Red</td><td>Yellow</td></tr><tr><td>20 mm</td><td>3</td><td>3</td><td>3</td></tr><tr><td>30mm</td><td>10</td><td>10</td><td>10</td></tr><tr><td>40mm</td><td>3</td><td>3</td><td>3</td></tr></table> As per sample..	Dia	Blue	Red	Yellow	20 mm	3	3	3	30mm	10	10	10	40mm	3	3	3	
Dia	Blue	Red	Yellow																	
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40mm	3	3	3																	

23.	Square Shaped Tiles		Squares of evasheet of thickness 5 mm <table><tr><td>Side</td><td>Blue</td><td>Red</td><td>Yellow</td></tr><tr><td>20 mm</td><td>3</td><td>3</td><td>3</td></tr><tr><td>30mm</td><td>10</td><td>10</td><td>10</td></tr><tr><td>40mm</td><td>3</td><td>3</td><td>3</td></tr></table> As per sample.	Side	Blue	Red	Yellow	20 mm	3	3	3	30mm	10	10	10	40mm	3	3	3	
Side	Blue	Red	Yellow																	
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40mm	3	3	3																	
24.	Triangle Shaped Tiles		Equilateral triangles of evasheet of thickness 5 mm <table><tr><td>sides</td><td>Blue</td><td>Red</td><td>Yellow</td></tr><tr><td>20 mm</td><td>3</td><td>3</td><td>3</td></tr><tr><td>30mm</td><td>10</td><td>10</td><td>10</td></tr><tr><td>40mm</td><td>3</td><td>3</td><td>3</td></tr></table> As per sample .	sides	Blue	Red	Yellow	20 mm	3	3	3	30mm	10	10	10	40mm	3	3	3	
sides	Blue	Red	Yellow																	
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30mm	10	10	10																	
40mm	3	3	3																	
25.	Rhombus shaped Tiles		Rhombus of eva sheet of thickness 5 mm <table><tr><td>Side</td><td>Blue</td><td>Red</td><td>Yellow</td></tr><tr><td>20 mm</td><td>3</td><td>3</td><td>3</td></tr><tr><td>30mm</td><td>10</td><td>10</td><td>10</td></tr><tr><td>40mm</td><td>3</td><td>3</td><td>3</td></tr></table> As per sample .	Side	Blue	Red	Yellow	20 mm	3	3	3	30mm	10	10	10	40mm	3	3	3	
Side	Blue	Red	Yellow																	
20 mm	3	3	3																	
30mm	10	10	10																	
40mm	3	3	3																	
26.	Hexagon Tray		A red plastic hexagonal tray with side 120 mm and 1.5mm thick. Upside boundary height is 7mm. As per sample	1 no.																
27.	Square Tray		A red plastic square tray of side 120mm and 1.5mm thick. Upside boundary height is 7mm. As per sample	1 no.																
28.	Play Money		One hundred rupees note size 184 x 85mm – 5 nos. Fifty rupees note 175 x 85mm – 4 nos. Twenty rupees note 168 x 74mm -5 nos. Ten rupees note 163 x 76mm – 19 nos. Five rupees coin 35 mm dia x 1.5mm – 4 nos. Two rupees coin 37dia x 1.5mm – 5 nos. One rupee coin 35dia x 1.5mm – 19 nos. All notes of laser coated paper and coins of plastic in grey color. As per sample	1 set																
29.	Place value cards		110 (90+20) mm x 30mm x 0.7mm thickness polypropylene plastic sheet. Numbers 100 to 900 printed with red color and font size 60 pt. Right end to be semicircular of radius 20 mm. As per sample	9 cards (100 to 900)																

30.	Place value cards		80mm (60+20) x 30mm x 0.7mm thickness polypropylene plastic sheet, numbers 10 to 90 printed with red color and font size 60 pt. Right end to be semicircular of radius 20 mm . As per sample	9 cards (10 to 90)																								
31.	Place value cards		50mm (30+20) x 30mm x 0.7mm thickness polypropylene plasticsheet,numbers 1 to 9 printed with red color and font size 60 pt. Right end to be semicircular of radius 20 mm. As per sample	9 cards (1 to 9)																								
32.	Dominoes		60mm x 30mm x 4mm thickness ABS plastic Moulded/sheet in white color and holes as per chart and both sides black color plastic strip for partition of dominoes. <table border="1"><thead><tr><th>holes</th><th>No. Plastic pieces</th></tr></thead><tbody><tr><td>0 to 9</td><td>10</td></tr><tr><td>0 to 8</td><td>9</td></tr><tr><td>0 to 7</td><td>8</td></tr><tr><td>0 to 6</td><td>7</td></tr><tr><td>0 to 5</td><td>6</td></tr><tr><td>0 to 4</td><td>5</td></tr><tr><td>0 to 3</td><td>4</td></tr><tr><td>0 to 2</td><td>3</td></tr><tr><td>0 to 1</td><td>2</td></tr><tr><td>0</td><td>1</td></tr><tr><td>Total</td><td>55 pieces</td></tr></tbody></table> As per sample	holes	No. Plastic pieces	0 to 9	10	0 to 8	9	0 to 7	8	0 to 6	7	0 to 5	6	0 to 4	5	0 to 3	4	0 to 2	3	0 to 1	2	0	1	Total	55 pieces	1 set (55 cards)
holes	No. Plastic pieces																											
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0 to 5	6																											
0 to 4	5																											
0 to 3	4																											
0 to 2	3																											
0 to 1	2																											
0	1																											
Total	55 pieces																											
33.	Dice		Red color plastic Cubes of side 20mm with itching as given below on each cube <table border="1"><tbody><tr><td>Cube 1</td><td>Dots 1-6</td></tr><tr><td>Cube 2</td><td>Numbers 0-5</td></tr><tr><td>Cube 3</td><td>5-10</td></tr><tr><td>Cube 4</td><td>Symbols +, -, Add, Subtract, Ghata (in Hindi), Jod (in Hindi)</td></tr></tbody></table> as per sample	Cube 1	Dots 1-6	Cube 2	Numbers 0-5	Cube 3	5-10	Cube 4	Symbols +, -, Add, Subtract, Ghata (in Hindi), Jod (in Hindi)	1 set (4 dice)																
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Cube 4	Symbols +, -, Add, Subtract, Ghata (in Hindi), Jod (in Hindi)																											
34.	Number Square cards		30mmx30mmx0.7mm thickness polypropylene plastic sheet & printed with multi color numbering (1-50) and symbols +, - As per sample	1 set (65 squares)																								

35	Cotton String		Cotton String dia 5mm. & total band size length 1000 mm in alternative red & white coloring after 100 mm each. As per sample	1 no.
36.	P.V.C pouch 1. Blocks 2.Solid Shapes (Velcro) 3. Containers with Stamp Pad 4.Tiles 5.Dominos & Dice 6. Number Cards 7. Place value cards. 8. Play money		P.V.C pouch with locking system As per sample.	1 each = Total 8 pouches
37	Kit Manual		Kit manualis supplied with the kit	01 No.

Technical Specifications

*All the plastic material needs to be Non toxic, unbreakable and virgin plastic. Documentary proof should be provided. Eva sheet needs to be fresh.

Resource Package for Awareness in ECCE (English and Hindi) Technical Specifications

Sl. No.	Material		Specification	Quantity
1	Kit manual		Kit manual is supplied with the kit.	01 No.
2	Big Banner		Printing Size 71inch x 30 inch made of 200gsm Flex Banner with multi-Color Printing & 3 rivets should be there on the top of the banner. Also provide stripped pockets in front of each title on the banner & also provide thick plastic sheet to be inserted in the pockets. As per sample.	1No.
3	Medium Banner		Printing Size 47inch x 24inch made of 200gsm Flex Banner with multi-color printing & stitched on both sides with 19mm pipedia and both sides of pipe covered by cap. Also provide stripped pockets in front of each title on the banner & also provide thick plastic sheet to be inserted in the pockets. As per sample.	1 No.
4	Poster		Printing Size 39 x 27 inch made of 700 guage PVC foam sheet with multi-colour printing & pipe should be properly fixed on Top & Bottom with 19mm pipe dia& both sides covered by cap, with hanging facility. As per sample.	No. of each type of poster =1. Total No. of different posters=9

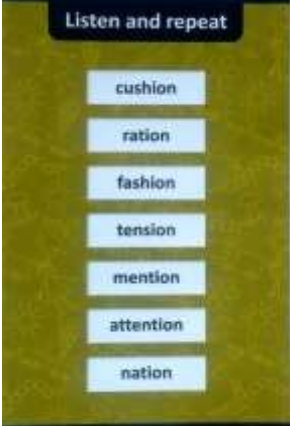
5	Small Banners		Printing Size 18 inch x 10 inch made of 200gsm Flex Banner with multi-Color Printing & stitched on Top & Bottom with 19mm pipedia with both sides covered by cap. As per sample	No. of each type of banner =1. Total No. of different small banners=14
6	Leaflet (Circle and square shapes)		• Circle of diameter 290 mm and thickness of PVC sheet is 0.5 mm. • Square of size 290 mm x 290 mm made of PVC sheet of thickness 0.5 • Both side multi colour printing in circle & Square. • with Hanging Facility . As per sample.	No. of each type of circle leaflet and square leaflet = 1 Total No. of different types of circle leaflets and square leaflets =20(10+10)

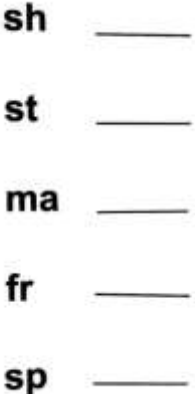
7	ID Card		Size 70mm x100 mm,made of polypropylene. Card holder and string with printingrequired As per sample	3 nos. in each Set. Total10 Sets (10 x 3 =30)
8	Badges		Size 75 mmwith safety pin on the back side. As per sample	Total 10 Nos.
9	Stamp & Stamp Pad		Size 72 mm round Stamp with 95 x 115mm Stamp pad. As per Sample.	Total 1 No.
10	Puppet		Mother, Father, Boy and Girl made of soft skin color, cloth with dresses according to the characters, full size gloves. As per Sample.	Each 1 no. Total 4 Nos.
11	Frame Drum (Khanjari)		Size 8 inch with cover and adjustable frame for fitting. As per sample.	1 no.
12	Drawing painting brush		As per Sample.	1 no.
13	Shoe Brush		Wooden base soft bristles. As per sample.	1 no.
14	Tooth Brush		Standard big size soft bristles As per sample.	1 no.
15	White washing brush		Size 4 inches As per sample.	1 no.

16	Marker Pen		White board marker pen with thin and thick pointer As per sample.	Each 1 no. Total 2 Nos.
17	Duster		Small size plastic duster with sponge fixed on it. As per sample	1 no.
18	Loaded DVD with Cover		Made of plastic, standard size, DVD cover, DVD loaded with the matter of this kit purchased from CIET, NCERT As per sample.	1 No.
19.	Gloves		Made of cotton. As per Sample	02 pairs
20.	Toilet brush		Made of plastic, soft bristles As per Sample	01 No.
21.	Case Carrying Bag		Good quality cloth bag of appropriate size with chain and locking arrangement with handle strap and long hanging strap. Printed with NCERT logo. As per sample	01 No.

Remark : All the material should be prepared in Hindi also as done in English.

**“Raindrops” Primary English Learning kit
Technical Specifications**

Sr No.	Items		Specification	Qty
1	Short Story		Size 300mm x210 mm, Multi colour Printed on 250 gsm art card with both side pouch lamination 25 micron & spiral binding at the top of the card. As per sample	Each 1No. Total 2 story Sets
2	Poems		Size 290 mm x205 mm Multi colour Printed as per sample on 250 gsm art card with both side thermal lamination 25 micron.	Each 1 No. poem Total 14 poem set
3	Anagrams		Size 230x330x1.3 mm one side permanent multi colour printing 4 nos anagram as per sample on ceramic Green steel sheet and other side covered with laminated sheet. All four sides covered with round aluminum section & four corner fitting by first quality ABS corner. Along with slate Pen Packet & small duster to be given	Each 1 No 4 board total One set slate pen pocket, one duster Total 6 items
4	Listen and Repeat		Size 210 x293 mm colour printing on 180 gsm Art card with size 223x303 mm, of 125 micron pouch lamination as per sample	Each 1 No. Total 10 cards

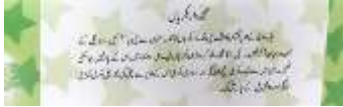
5	Listen and Repeat		Sizes 130x210 mm colour printing on 180 gsmartcard with size 150x222 mm, of 125 micron pouch lamination as per sample	Each 1 No Total 10 Nos. Set
6	Alphabet Cube		Size 25x25 mm made of plastic. Each side of plastic cube with two numbers of each first and second alphabet attached reflected.	20 cubes set. Packed in a plastic box
7	Initial & final sound		Size 180x230 mm one side permanent multi colour printing 4 nos board on ceramic White steel sheet and other side covered with laminated sheet. All four side covered with round aluminum section & four corner fitting by first quality ABS corner .Along with white board market pen & small duster to be given, as per sample	Each white board 1 Total 4 board 1 white board Marker pen 1 small duster Total 6 items
8	How to Draw		Size 210x293 mm colour printing on 180 gsmartcard with 223x303 mm, of 125 micron pouch lamination as per sample	Each 1 no. Total 3 Nos. Set
9	Braille chart		Size 455x303 mm a polypropylene 0.7 mm thick sheet with Braille & multicolour in first & second alphabet with English number printing on one side. The ink should be ROHS certified. Packed in PVC box As per sample	1 no

10	Measuring scale		Total size 1000x25x5 mm made of Plastic in three part with locking arrangement. Braille scale impression on top of the scale. Packed in plastic box As per sample	1 no
11	Mask		1.7mm thick made of Ethylene Vinyl acetate as per sample multicoloured. Each side as per shape cutting & 12 mm elastic fixed by both side finished rivet.	Each 1 nos. total 3 Nos. set.
12	Emoti Cons		Size 55 mm made of Plastic 10 different Smileys as per sample with safety pin on the back side.	Each 1 Nos. total 10 Nos set
13	Slate	 f	Size 230x330x1.3 mm multi colour one side permanent printing 3 slate as per sample on ceramic Green steel sheet and other side covered with laminated sheet. All four side covered with round aluminum section & four corner fitting by first quality ABS corner, with Slate Pen Packet & small duster. As per sample	Each 1 no. 3 Slate Tottle 1 slate pen packed I small duster Total 5 item
14	Word in Card		Size 85x60 mm Made of 250 gsm art card with 25 micron thermal lamination on both side & multicolour printing of one side. Packed in plastic Box size = 120x77x20mm As per sample	Each 1 no . Total 60 Nos. Set packed in a plastic box
15	Riddle		Size 130 x210 mm colour printing as per sample on 120 gsmartcard with 150x220mm, of 125 micron pouch lamination. As per sample	Each 1 Nos. Total 4 Nos. set

16	Alphabet Card		Size 70x92 Made of 250 gsm art card with 25 micron thermal lamination on both side & multicolour printing of one side. Packed in plastic box size = 120x77x20mm As per sample	Each 1 Nos. Total 26 Nos. set
17	Words Circle		Size 160 mm circle 2 pieces & 175 mm circle 2 pieces Made of PVC 0.7 mm thick sheet with multi colour printing. As per sample	Each circle Total 4 Nos. Set
18	Alphabet Word		Size 45 x 45 mm made of PVC sun board 2.5 mm thick with different colour First alphabet, second alphabet, number & numeric signs printed corner of square must be round cutting. Packed in plastic box size= 200x150x85 As per sample	Each 2 Nos. Total 134 Nos. set packed in a plastic box
19	Case Carrying Bag		Good quality cloth bag of appropriate size with chain and locking arrangement with handle strap and long hanging strap. Printed with NCERT logo. As per sample	01 No.
20	Kit manual		Kit manuals may be purchased from sales counter of Publication Division, NCERT, New Delhi. The price of all the kit manuals are ranging Rs.50 to 200/-	01 No.

Primary Urdu Learning kit
Technical Specifications

Sr No.	Items		Specification	Qty
1	Urdu Lion Story		Size 210 x 293 mm color printing, on 180 gsm Artcard with 223x303 mm, of 125 micron pouch lamination. As per sample	Each 1No. Total 4 Sheet
2	Playing Cards		Size 85 x 60 mm made of 250 gsm artcard with 25 micron thermal lamination on both side & multi colour printing of one side packed in a plastic box size 120x77x20mm As per sample	Each 1 No. Total 55 Nos set
3	Similar word and meaning Game		Size 218 mm made of PVC 0.7 mm thick sheet with multi colour printing in circle, with two transparent arrows fixed with reverse rivet. As per sample.	1 No.
4	Word and meaning Game		Size 218 mm made of PVC 0.7 mm thick sheet with multi colour printing in circle, with two transparent arrow fixed with reverse rivet. As per sample	1 No.
5	Braille chart		Size 455x303 mm A polypropylene 0.7 mm thick sheet with Braille & multi colour in first & second alphabet with English number printing on one side and packed in plastic tube both side covered, The ink should be ROHS certified, As per sample	1 No.
6	Picture and alphabet game		Size 218 mm made of PVC 0.7 mm thick sheet with multi colour printing in circle, with two transparent arrows fixed with reverse rivet. As per sample	1No

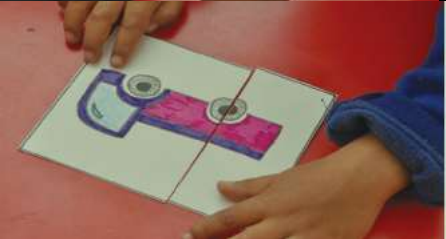
7	Alphabet Word Tiles		Size 40 x 40 mm made of PVC sun board 2.5 mm thick printed with different colour alphabets. Corner of square must be round cutting, packed in plastic box. Size 145x90x72mm As per sample	Each 2 no. Total 84 Nos set.
8	Urdu Story		Size 210 x 293 mm colour printing, on 180 gsmartcard with 223 x 303 mm, of 125 micron pouch lamination, As per sample.	Each 1 no. Total 3 Nos. set
9	Urdu Poems		Size 200 x 282 mm made of 250 gmsartcard with 25 micron thermal lamination on both side & multi colour printing on one side & also fold to be given As per sample.	Each 1 no. Total 2 Nos set .
10	Urdu Festival Chart		Total size 750 x 500 mm made of flex Material with multi colour printing on one side with stick attached on top & bottom given along with hanging facility. As per sample.	Each 1 no. Total 1 No.
11	Urdu Riddle		Size 130 x 210 mm colour printing on 180 gsmartcard with 150 x 222 mm, of 125 micron pouch lamination, As per sample.	Each 1 nos. Total 6 Nos set.
12	Urdu Ludo suffix and prefix Game		Size. 465 x 460 mm white sheet four colour printing of ludo game pasted on card board in two part. Four sides PVC covered card board, on the front side transparent PVC & back side non transparent PVC with plastic counter (cone type) 4 piece in four different colours& two dice, with answer sheet pouch laminated, As per sample.	1 Set Total 8 Nos.

13	Speaking skill Game		Size 218 mm made of PVC 0.7 mm thick sheet with multi colour printing in circle, with two transparent arrows fixed with reverse rivet. As per sample.	Total 1 No.
14	Opposite word cards		Size 85x60 mm made of 250 gsm art card with 25 micron thermal lamination on both side & multicolor printing of one side packed in plastic box. Size 120x77x20 mm As per sample	Each 1 no. Total 12 card
15	Counting Ludo		Size. 567 x 560 mm white sheet four colour printing of ludo game pasted on card board in two part. Four sides PVC covered card board, on the front side transparent PVC & back side non transparent PVC. with plastic counters (cone type) 4 Piece in four different colours each & two dice. As per sample.	1 Set Total 19 Nos.
16	Initial and Final Sound		Size 180x230 mm one side permanent multi color printing as per sample on ceramic White steel sheet and other side covered with laminated sheet. All four side covered with round aluminum section & four corner fitting by first quality ABS corner. Along with white board marker Pen & small duster to be given, As per sample.	1 No. Board, 1 Marker pen, 1No. Small Duster Total 3 items
17	Anagram		Size 230x330x1.3 mm one side permanent multi color printing as per sample on ceramic Green steel sheet and other side covered with laminated sheet. All four side covered with round aluminum section & four corner fitting by first quality ABS corner. Along with slate Pen Packet & small duster to be given, As per sample.	1 board 1 Slate pen Packet 1 small duster Total 3 items

18	Word Puzzle		Size 175 x 125x 5.4 mm four color printing on one side MDF board. With zixo cutting packed in plastic box, with pouch laminated answer sheet. As per sample.	Each 1 No. Total 11 No. Set
19	Case Carrying Bag		Good quality cloth bag of appropriate size with chain and locking arrangement with handle strap and long hanging strap. Printed with NCERT logo. As per sample	01 No.
20	Kit manual		Kit manuals may be purchased from sales counter of Publication Division, NCERT, New Delhi. The price of all the kit manuals are ranging Rs.50 to 200/-.	1 No.

SPECIFICATION OF ECE “Play and Learn” KIT

S.No	Name of the Item	Images of Item	Specification	Quantities
a	Kit Box		Container No. 222 along with a lid and wheel at the base also attached with lacks on two opposite side 50 litres, high density polyethylene weight not less than 950gm small over size approx. 520mm X 380mm X 320mm as per sample.	1
b	Kit Manual		Kit Manual printed in Hindi/English by Publication Division of NCERT	1
1	Tambourine		Despite with 4mm flyncit. And dia 180 mm × 50mm might. Sheet metal /plastic body as per sample	1
2	Feely bag with five items 1. Cylinder 2. Cube 3. Oval 4. Sphere 5. Pyramid		Base ϕ 140mm × 150mm and might 240/250mm as per sample Plastic Cylinder dia 32/33mm × 65mm height Cube 32/33mm plastic Plastic oval dia 36mm × 50mm length. Plastic sphere dia 20mm × 25mm height Plastic dia 18mm × 70mm length all solid shapes as per sample wood/plastic	1 2 2 2 2 2
3	Visual discrimination strips		Plastic strip with colour printing 52/55mm × 285mm/288mm × 2.5mm thickness as per sample	5 strip both side printing
4	Visual perceptual board		Plastic board both side printed 250× 200× 2.5/3mm height, one side row as per sample	1

5	Flip Book with 10 Pages		What is missing flip book size 210×145mm. with plastics coted 10 sheets with cover as per sample.	1
6	Memory card		Plastic coted cards five concepts, each concept having two cards total no of 10 cards. Size 180/183mm×130/133mm×.3/.5mm thickness, printing as per sample	2 × 5 = 10
7	Chronological sequencing cards (four sequential thinking sets) a. Banana peeling b. Bathing sequence c. Washing sequencing d. Egg to hen		Plastic coated cards four sets, each sets having four cards total No. of 16 cards size 180/183mm × 130/133mm × 0.3/0.5mm thickness, printing as per sample	4 × 4 = 16
8.	Story Cards/ English and Hindi a. Monkey and the Cap seller b. Lion and the mouse		Plastic coted cards both side printed 2 story cards sets. Each sets having 5 cards. Size 203/205 × 140/144mm × 0.3/0.5mm thickness each card both side printing as per sample Total 10+10 = twenty cards	20
9.	Jig saw puzzles 1. Apple 2. Orange 3. Car 4. Truck 5. Tiger 6. Elephant		Plastic coted sheets puzzles in two pieces. Puzzles in three pieces. 5 pieces puzzles 6 pieces puzzles as per sample	Apple-2Pcs. Orange-2pcs. Car-3Pcs. Turk-3Pcs. Tiger-5Pcs. Elephant-6Pcs.
10	Picture cards Birds, animals, fruits, vegetable, transport insets		Plastic coted card 65mm×10mm×0.3/0.5 thickness 6 type cardsX8 cards at each types of card total no. of 48 cards.	48 Cards

11.	Joker Cards		Plastic coted card 96×120mm×0.3/0.5mm thickness three sets each set having three cards and each card have with colour Red, Green and Yellow as per sample.	9 cards 3×3=9 Cards
12.	Self-Corrective relationship puzzles 1. Brush- Teeth 2. 6 10 3. 7 4. 8 5. 9		Plastic coted sheet 125×70mm male & Female cutting each cutting as per sample total No. off 10 sets each set having two cards with different priesting each set.	10 Sets 10 × 2 =20
13.	Pattern making strips with cut-outs		Plastic strips with colour printing 52/55mm×285/288mm×2.5/3mm thickness 4 strip × 8 cut-out sparest each strip equal 5 division. 8 cut-outs each cut out size equal to on to strip as per sample	4 strip 8 cut out
14	Colour lotto board with cut-outs a. Large Column b. Small Column		Plastic sheet 300m×210mmX3mm thickness with equal division as per sheet size and with colour matching 6 cut outs 80×75mm Small column size 300m×210mm 5 ×4=20 equal division as per sample with 5 colour right angle 50×35mm past or print on upper row sequence red, yellow, green, white and black with math 15 objects cut-out as pre right angle size.	1 + 1 = 2 Board
15	Colour seriation cards a. Kite (orange colour seriation) b. Leaf (green colour seriation) c. Flower (pink colour seriation) d. Balloon (blue colour seriation)	1, 2, 3, 4, 2, 3, 4 2, 3, 4 2, 3, 4 	Colour seriation card size 176 X 132 mm plastic coted card 0.5/0.5 mm in all each pictures in four colour and every colour make in 4 shads in 4 cards. Total 16 cards as per sample.	16
16	Shape dominoes	Total No. of 28 draw a border each cards	Plastic quoted card 120/124 X 60 mm X 0.3/0.5 mm total 28 cards all picture cards making as per sample.	28

				
17.	Pre- Number Concept Cards a. Big- Small b. Long – Short c. Tall – Short d. Thick – Thin e. Far – Near		Plastic coated card size 175 X 132 X 0.3/0.5 mm Thickness both side printing, one side picture and another side, literature as per sample	5 Cards
18.	Number Object Dominoe	1- 28	Plastic quoted cord dominoe size 120/124 X 60 mm X 0.3/0.5 mm Thickness in two equal part. One side number and another side printing pictures as per sample	28 cards
	1. No. of 3 dominoe = 2 = 10 candle, 3 ball 2. No. of 3 dominoe = 3 = 3 car, 5apple, 10 totties 3. No. of 3 dominoe = 3 = 7 balloon, 8 Deepak, 7 tree 4. No. of 3 dominoe = 3 = 1 cat, 1 elephant, 6 rat 5. No. of 3 dominoe = 3 = 8 leaf, 10, 9 cap 6. No. of 3 dominoe = 3 = 4 rat, 2 racket, 4 duek 7. No. of 3 dominoe = 3 = end, 9 pinck latos, 4 mangos 8. No. of 3 dominoe = 3 = 6 fish, 5	Printed 10 Candle Printed 3 Ball 		

	birds 9. No. of 3 dominoe = 3 = 3 yach, 5 bringal, 2 fig All no. embossing in Dominoe			
19.	Magnets (Different colour)		5 Colour magnet Hallow magnet ϕ 20 plastic cover, 10 each of 5 different colour total $5 \times 10 = 50$ as per sample	
20.	Picture shadow latto 1. Butter fly 2. Cater Piller 3. Mazento 4. squaral 5. sparico 6. Rabbit 9. owl 8. mouse 9. caw 10. mouse 11. crocodile 12. cat		Plastic coted sheet board 210×300 $\times 3$ mm thickness with 12 cat – owl 50×50 mm. shadow picture in black colour drawing on the board is out line in black as per sample.	
21.	Picture reading poster 1. Park Scene 2. Market Scene 3. Railway Station Scene 4. Road Scene 5. Village Scene 6. Jungle Scene		Laminated and in calendar form $400 \times 300 \times 400$ mm, 6 Picture reading with cover on a calendar as per sample	
22.	Hindi sound dominos हर्ट	1. सड़क, हाथ 2. हाथी, दांत 3. दरजी, खरगोश 4. खरबूजा, चाबी 5. चूहा, ठेला 6. गधा, घर 7. घड़ी, छाता 8. छड़ी, करमझ 9. 10. झाड़ू, डमरू 11. डाकिया, फूल	Plastic quoted card dominoe size $120/124 \times 60 \times 0.5/0.2$ mm thickness in two equal part in the two parts different colour picture as per sample	

		12. फल,तराजू 13. तरबूज,पपीता 14. पत्ता,गाय 15. गाजर,जग 16. जूता,टमाटर 17. टोकरी,बकरी 18. बत्तख,रस्सी 19. रेल,मछली 20. मगरमच्छ,ढक्कन 21. ढोलक,कटोरी 22. कुत्ता,लड्डू 23. लकड़ी,नल 24. नाक,कछुआ 25. कान,माला 26. मटर,गमला 27. गधा,लिफाफा 28. लड्डू,सेब		
23	English sound dominoe	1. Rose- Tree 2. Tortoise- Fan 3. Fire- Jug 4. Jeep- Van 5. Vulture, Mango 6. Monkey- Aeroplane 7. Arrow- Key 8. Kangaroo- Boy 9. Ball- Lamp 10. Leg- Nest 11. Nose- Ox 12. Owl- Rat 13. Ring- Papaya 14. Peacock- Jacket 15. Jackal- Snake 16. Seven- Donkey 17. Doll-Bat 18. Balloon-Potato 19. Parrot-Mug 20. Mat-Kite 21. King-Sun 22. Soap-Nurse 23. Nail-Rabbit 24. Rain-Tap 25. Tomato-Ant 26. Apple-Duck 27. Dog-Butterfly 28. Bus-Rickshaw	As per sample item no. 24 	

24	Phonic Picture Board (English with 20 phonic cards)	1. Papaya 2. Tomato 3. Star 4. Rocket 5. Balloon 6. Bat 7. Lato 8. Arrow 9. Heat 10. Monkey 11. Lotus 12. Rat 13. Snake 14. Rasc Hawr 15. Pan Ka Patta 16. Duck 17. Peacock 18. Doll 19. Finger with nail 20. Cup	Plastic sheet Board, size 242 x 300mm x 1.5x 2 mm thickness, 6 x 5 cube seriation with pictures Heading at the Top of the sheet storage for 20 cut outs size 4 X 5 mm plastic coated sheet. 	
25	Phonic picture board (Hindi with 20 Hindi Phonic Cards)	1. बिल्ली 2. किस्ती 3. गाजर 4. सांप 5. जोकर 6. पतंग 7. जूता 8. नाक 9. गुब्बारा 10. झाड़ू, डमरू 11. पिंजरा 12. बरसात 13. रूमाल 14. मछली 15. लीची 16. कमलकाफूल 17. रोटी 18. लड़की 19. किताब 20. माला	As per sample item No. -26 	
26	Alphabetic-Upper Case with Magnetic Letters		Plastic Magnetic letters A-Z font size of 65 mm as per sample	26 alphabets

27	Alphabet Lower Case Magnetic Letter		Plastic Magnetic letters font size of 43 mm as per sample	26 alphabets
28	Magnetic स्वर और व्यंजन		Plastic Magnetic HINDI, font size 70 mm as per sample	36 NO.
29	Wooden Blocks		Wooden Blocks 1. Rectangular Block Size 100 × 50 × 24 mm 2. Rectangular Block size 100 × 50 × 10 mm	
a	Optical 150 × 50 × 25 mm in four pear in four calendar . Red, Green, blue and Yellow, Total four focus		Square 25 × 25 × 100 mm	
b	Square black 25×25×50mm		Cube 25 × 25 mm total 8 pears, 2 red collard, 2 blue 2 green and 1 yellow	
c	Square black 25 × 25 × 50 mm		Total 8 Pears, 2 read colour, 2 blue, 2 green and 1 yellow	
d	Triangle black 50 × 50 × 25 in two colour Red, Yellow		Total 8 Pens, 2 Green and 1 Yellow	
e	Cylinder dia 25 × 50 mm in custom on each colour Red, Blue, Yellow, Green		10 Half Black 0.50 × 25 height 2 Pen Red and Blue	
30	Musical Ball		Ball Dia 90 Approx Plasitc good quality on ghungroo in side the ball is per sample	

31	Nesting Toys with embossed animals at the bottom with stamp pad		Plastic nesting toys biggest toy size 70 × 50 height to smallest dia 2.5 × 3.5 height 12No. Toys in 6 colour 2 in. each catch a per sample	
32	Nut and Bolts 1. Square Head Nut and bolts 2. Hexagonal Head Nut and bolts 3. Triangle Head Nut and bolts 4. Plus sine Head Nut and bolts		Plastic different shapes in four colour two sets 22 mm ... and two sets in 20 mm as per sample.	
33	Button shape with string 1. Square shape 2. Circle Shape 3. Octagon shape 4. triangle shape 5. diamond shape		Plastic shapes 50 × 5 mm height in yellow, red blue, green colour with two thick strings as per sample.	
34	Multi Coloured interlocking cubes		Plastic cubes 20 × 20 mm in five colours orange, blue, pink, red, and green 10each colour as per sample.	
35	A Pair of child friendly Scissors.		As per sample.	
36	Glove Puppets (Lion and Rabbit)		As per sample.	

37	Big hand mirror with plastic frames		As per sample.	
38	Dolls (male & female)		Toys height 370 mm/390 mm as per sample	
39	Bead with strings		Beads, in the cantor als 6 mm in different shapes and calculate 20 number in T each colour green, red, yellow, and blue with 6 thick and lang. strings	
40	Folding bag		Cotton Cloth bag with pockets to store and display the kit material as per sample.	