

Minimum Standards for Home Science Education



Education Division

**Indian Council of Agricultural Research
PUSA, New Delhi 110 012**

CONTENTS

Sr No	Description	Letter No. and Date
1	Office Order constituting the Committee	F. No. Edn. 5/4/2013-EQR dated 1 st October, 2013
2	Meeting notice	F. No. Edn. 5/4/2013-EQR dated 29 th October, 2013
3	Proceedings of the meeting	

Proceedings of the meeting of ICAR Committee “to work out the Minimum Standards of Higher Agricultural Education (MSHAE) in terms of infrastructure, laboratories/field facilities, faculty, manpower and other support in Home Science” held on 23rd November, 2013 at College of Home Science, PAU, Ludhiana

The following were present in the meeting :

- | | | |
|----|--|----------------------|
| 1. | Dr (Mrs) Neelam Grewal
Director,
Directorate of Research on Women in Agri.
Bhubaneswar (Odisha). | ...Chairperson |
| 2. | Dr Suresh S. Honnappagol,
Assistant Director General (EQR),
ICAR, New Delhi. | ...Member, Secretary |
| 3. | Dr (Mrs) Saroj S. Jeet Singh
Dean, IC College of Home Science
CCS Haryana Agricultural University, Hisar. | ...Member |
| 4. | Dr (Mrs) Jasvinder Kaur Sangha,
Dean, College of Home Science,
Punjab Agricultural University, Ludhiana. | ...Special Invitee |
| 5. | Dr (Mrs) Rupa Bakhshi, Professor,
Deptt of Family Resource Management,
COHSc, Punjab Agricultural University, Ludhiana | --- Special Invitee |
| 6. | Dr (Mrs) Muninder Kaur Sidhu, Professor and Head,
Deptt of Family Resource Management, COHSc,
Punjab Agricultural University, Ludhiana | --- Special Invitee |

- | | | |
|----|--|---------------------|
| 7. | Dr (Mrs) Jatinder Kaur Gulati, Professor and Head,
Deptt of Human Development, COHSc,
Punjab Agricultural University, Ludhiana | --- Special Invitee |
| 8. | Dr (Mrs) Balwinder Kaur Sadana, Professor and Head,
Deptt of Food and Nutrition, COHSc,
Punjab Agricultural University, Ludhiana | --- Special Invitee |
| 9. | Dr (Mrs) Sukhjot Kaur, Professor and Head,
Deptt of Home Science Extension & Communication Management,
CoHSc, Punjab Agricultural University, Ludhiana | --- Special Invitee |

Dr (Mrs) Jasvinder Kaur Sangha, Dean, College of Home Science welcomed all the Committee members and briefed about the activities of College of Home Science at PAU, Ludhiana.

The Chairperson briefly dwelled upon the scope of the Committee in terms of reference of the Committee.

Dr. Suresh S. Honnappagol, Additional Director General (EQR), ICAR, gave the details of the importance of Home Science education and the purpose of constitution of this committee and the importance of Home Science in Agricultural Universities.

Dr. Saroj S. Jeet Singh, Dean, College of Home Science, CCS Haryana Agricultural University, Hisar emphasized upon the need for formulating the minimum standard document which can serve as a ready reference in terms of human resource and faculty to start a Home Science College in an Agricultural University.

The Committee witnessed a virtual tour of the College of Home Science, PAU. It depicts the importance of Home Science education and the opportunities available in the field.

Following the in depth discussions and deliberations on the minimum standards of Home Science education in terms of faculty, supporting staff, physical facilities, equipment, library, etc. which are appended herewith for consideration of the Education Division, ICAR, New Delhi. It is felt that change

of nomenclature of the degree from the existing one to B. Sc. (Community Science & Nutrition/B.Sc. (Family & Community Sciences), needs to be deliberated upon and discussed by the 5th Deans' Committee.

Details of the minimum Standards of Higher Agricultural Education (MSHAE) in terms of infrastructure, laboratories/field facilities, faculty, manpower and other support in Home Science, finalized during the meeting, have been appended.

Dr Neelam Grewal
Chairperson

Dr Saroj S Jeet Singh
Member

Dr Suresh S. Honnappagol
Member, Secretary

APPENDIX

Minimum Standards for Home Science Education

These are the minimum standards required for establishing a Home Science College with an intake of 50 students per year. However, the Agricultural University will be at liberty to enhance admission intake with appropriate addition of human resources, equipment, facilities, etc.

(1) Degree Nomenclature

- B Sc (Community Science and Technology)

OR

- B Sc (Family and Community Sciences)

To be debated and decided by the Vth Deans' Committee

(2) Eligibility Criteria

- 10+2 any stream with a minimum of 50% marks

(Deficiency courses in Science are to be offered to the candidates from other streams).

(3) Medium of Instruction : English

(4) Minimum Intake : 50 students per year

(5) Departments

- I. Department of Food and Nutrition
- II. Department of Family Resource Management
- III. Department of Extension and Communication Management
- IV. Department of Human Development
- V. Department of Textile and Apparel Designing

(6) Specialization : Courses for elective (Department-wise)

(a) Department of Food and Nutrition

- I. Dietetics
- II. Post Harvest Technology

(b) Department of Family Resource Management

- I. Interior Designing
- II. Institutional House Keeping

(c) Department of Home Science Extension and Communication Management

- I. Journalism and Mass Communication
- II. Information Technology

(d) Department of Human Development

- I. Early Childhood Care and Education
- II. Special Education

(e) Department of Textile and Apparel Designing

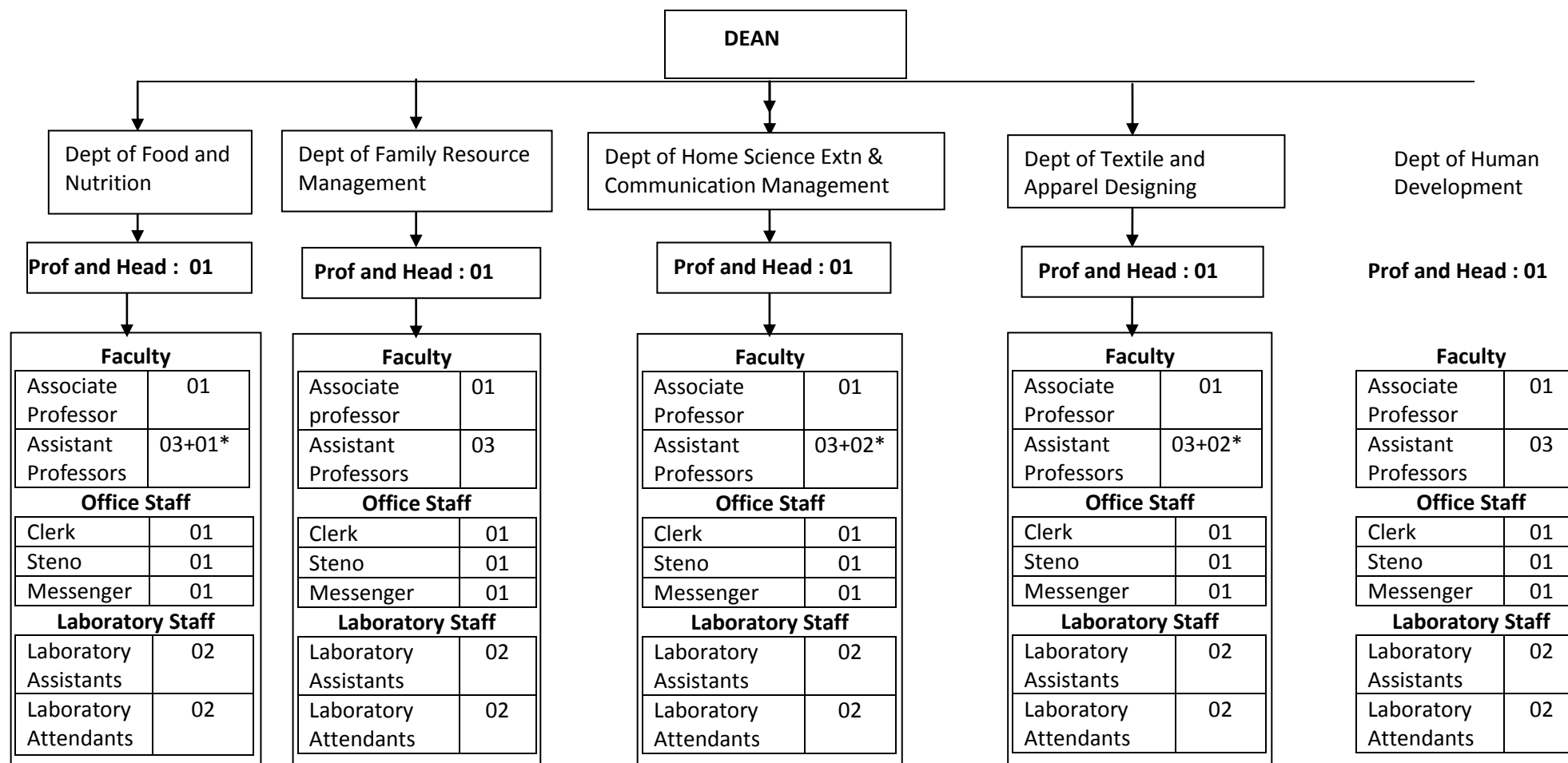
- I. Apparel

II. Textile Science and Designing

.....contd.

7.a

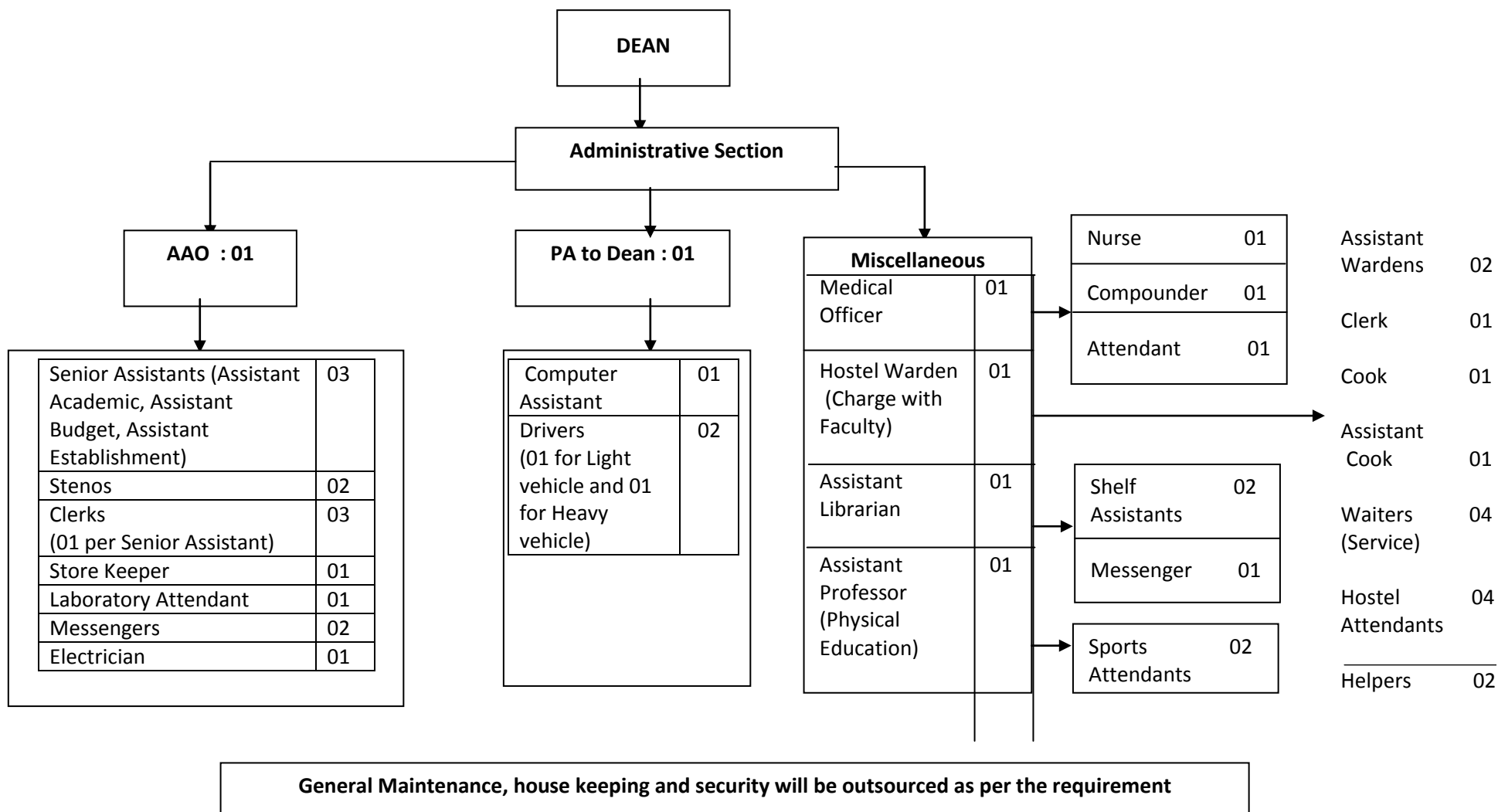
Manpower Requirement of College of Home Science



* 01 Assistant Professor (Medical stream) to teach Biology and Microbiology; 02 Assistant Professors (Non-medical stream) to teach Physics, Chemistry and Mathematics; 01 Assistant Professor to teach Computer Science; 01 Assistant Professor to teach English.

7.b

Man-Power Requirement of Dean's Office



8. Floor Space (Department wise):

<u>Details</u>	<u>Nos.</u>	<u>Floor Space</u>
a. Head of the Department's Chamber	5	@ 15' x 20' each
b. Office Room	5	@ 10' x 15' each
c. Associate Professors' Rooms	5	@ 10' x 10' each
d. Faculty Rooms (with individual workstations)	5	@ 20' x 30' each
e. Laboratories	15	@ 20' x 30' each and 3 labs/department

College Building

a. Class Rooms	4	Seating capacity of 60 each
b. Multipurpose Room	1	Seating capacity of 100
c. Toilets	9	@ 2 ladies' and 1 gents'/floor (for 3 floors)

Auditorium : With a seating capacity of 500 persons

Dispensary

Sports Complex

a. Indoor	1	
b. Outdoor	1	
c. Multi Gym	1	
d. Faculty Room	1	10' x 15'
e. Store Room	1	10' x 20'
f. Toilet	1	-

Hostel : To cater to 200 boarders + 3 Guest Rooms

Parking facility : As per requirement

9. List of Equipment (Department wise):

A. Department of Food & Nutrition		
S.No.	Name of Equipment	Quantity
1.	Citrus Juicer	01
2.	Potable water kit	01
3.	Deep Freezer	01
4.	Exhaust Manifold	01
5.	Water Purification system	01
6.	Water Pump & Accessories	01
7.	Stabilizer	03
8.	ph meter	01
9.	Lactometer	01
10.	Colorimeter	01
11.	Centrifuge Machine	01
12.	Dancing Shaker	01
13.	Drying rack	02
14.	Desicators plain	02
15.	Desicators vacuum	01
16.	Ice bucket	01
17.	Scanner	01
18.	Head phone	01
19.	<i>Chapati</i> maker	05
20.	Grinding Mill	01
21.	Marble Top Table	01
22.	Infantometer	01
23.	Steel Casseroles	02
24.	Food Processors	02
25.	Weighing Scale	01
26.	Water Cooler	01
27.	White board	01
28.	Sandwich maker	02

29.	Toaster (bread)	01
30.	Refrigerators	02
31.	HDD Box	01
32.	Electronic Balance	01
33.	Microwave Oven with Kit	01
34.	OTG (Oven Toaster Grill)	05
35.	Mixer Juicer Grinder	03
36.	Microwave Oven	01
37.	Electric Rice Cooker	02
38.	Projector screen	01
39.	Lamination Machine	01
40.	Paper cutting machine	01
41.	Spiral binding machine	01
42.	Sealing machine	01
43.	Hand refractor meter	01
44.	Muffle furnace	01
45.	Hand mixer (electrical beater)	07
46.	Domestic hand grinder cum miner (manual)	01
47.	Cooking range	02
48.	Gas burner (Single)	12
49.	Hand blender	01
50.	Height Measuring stand	01
51.	Kitchen scale (1 kg)	03
52.	Kitchen Scale (5 kg)	02
53.	Gas burner (double)	12
54.	Hand graving machine	01
55.	Food warmer	01
56.	Dhokla cooker	01
57.	Idlee cooker	02
58.	Digital camera	01
59.	Filter (water)	02

60.	Digital Thermometer	02
61.	Thermometer	03
62.	Water Purifier	01
63.	Analytical balance	01
64.	Sumo table top digital balance	01
65.	CAS Digital balance 50 kg	01
66.	CAS Digital balance 10 kg	01
67.	CAS Digital balance 5 kg	01
68.	Display Board	01
69.	Display Board (2 fold)	01
70.	Pedestal Stand	02
71.	Computers	08
72.	Induction Cooker	01
73.	Air Fryer	01
74.	Dinner Set	02
75.	Tea Set	02
76.	Cutlery Set	02
B. Department of Family Resource Management		
1.	Water Filter	01
2.	Digital Camera	01
3.	Lamination Machine	01
4.	Microwave Oven	04
5.	Electric Oven	04
6.	Vacuum Cleaner	3 different types
7.	Weighing Machine (Electronic)	01
8.	Weighing Machine (Personal)	01
9.	Paper Cutting Machine	01
10.	Spiral Binder	01
11.	Geyser	01
12.	Halogen Heater	01

13.	Emergency Light	01
14.	Refrigerator	02
15.	Overhead Projector + Screen	01
16.	LED Project + Monitor	01
17.	Cooking Range	02
18.	Washing Machine	01
19.	Stopwatch	01
20.	Hygrometer	01
21.	Lux Meter	01
22.	Hand Mechanical Grinder	01
23.	LPG Stove (4 burner)	02
24.	Kitchen Tool Set	01
25.	Oven Cookery Utensils	01 set
26.	Surface Cookery Utensils	01 set
27.	Candle Making Equipment	06 to 07 sets
28.	Laser Printer	03
29.	Laserjet Colour Printer	01
30.	Scanner Scan jet	02
31.	Computer system	10
32.	Coffee Percolator (all three types)	02
33.	Dishwasher	02
34.	Juicer	01
35.	Hand Mixer	01
36.	Coconut Cutter Grater	01
37.	Chili Cutter	01
38.	Bar Blender	01
39.	Pressure Cooker	06
40.	Food Processor	02
41.	Thermo Flask	01

42.	Electric Tandoor	01
43.	Sandwich Maker	01
44.	Bread Toaster	01
45.	Potato Chipper	01
46.	Electric Kettle	01
47.	Sprout maker	01
48.	Idlee maker	01
49.	Electric Iron	03
50.	Ironing Stand	01
51.	Chopper	01
52.	Cutter	01
53.	Citrus Press	01
54.	Tomato Slicer	01
55.	Squeezer	01
56.	Salt & Pepper Grinder	01
57.	Grater	01
58.	Chipser	01
59.	Solar Educational Kit	01
60.	Solar Cooker	01
61.	Solar Cooker (Parabolic Type)	01
62.	Solar Lantern	01
63.	Solar Drier	01
64.	Solar Water Heater	01
65.	Rice Cooker	01
66.	Water Cooler (Dispenser)	01
67.	Flower Press	01
68.	Potter's Wheel	01
69.	Knife Set	01
70.	Dinner Set	01

71.	Tea Set	01
72.	Cutlery Set	01
73.	Table Mats and Table Napkins	01 set
74.	Pin Holders	
75.	Food Adulteration Testing Kit	01
76.	Interior Designer Software (autocad, home architect deluxe)	03
77.	Induction Cooker	01
78.	Air Fryer	01
79.	Gas Connection	02
80.	Display Board Wall mounted	03
81.	Portable Display Boards	02
C. Department of Extension Education and Communication Management		
1.	LCD Projector	02
2.	Projection Screen with Tripod Stand	01
3.	Wall Mounting Projection Screen	02
4.	Photo Developing Machine	01
5.	SLR Camera with zoom lens	01
6.	Tripod Stand with Fluid Head	01
7.	Spiral Binding Machine	01
8.	Paper Cutting Machine	01
9.	Audio and Video Mixing Consoles	01
10.	Laser Pointer	01
11.	Slide Projector	01
12.	Direct Projector	01
13.	Amplifier	02
14.	Collar Microphone	04
15.	Microphone	02
16.	Speakers	04
17.	Mike Stand	02
18.	Stabilizer	03
19.	Display Boards	05

20.	Gas Stove	02
21.	Memory Stick	01
22.	Cylinder with Tube	01
23.	Refrigerator	02
24.	Water Purifier	01
25.	DVD Recorder and Player	01
26.	Audio Player	01
27.	Digital Camera	03
28.	LED Television	02
29.	Video Camera with accessories	02
30.	Video Capture Card	02
31.	Computer Speaker	01
32.	Microwave Oven	01
33.	Head Phone	01
34.	Computer with Accessories	05
35.	HP Photo Printers	03
36.	Laptop	01
37.	Podium	01
38.	LED Monitor	01
39.	LED Monitor portable	01
D. Department of Human Development		
1.	Digital Camera	01
2.	Water Purifier	01
3.	Water Cooler	01
4.	Refrigerators	02
5.	Cooking range	02
6.	Geysers	01
7.	Computer with Printer	02
8.	Outdoor play Material :	
	Circular Swing	01
	Combination set	01

	Merry go round	01
	Rocking boat	01
	Wide Slide	01
	Climber	01
	Tricycles	05
	Cars	05
	Sand and water play equipment	10 each
9.	Psychological tests (BSID, DASIL, WPPSI, ICIT, 16 PF, 1tc)	30
10.	Infantometer	01
11.	Weighing balance	02
12.	Music system	01
13.	Microwave oven	01
14.	Juicer	01
15.	Food Processor	01
16.	Food Warmer	01
17.	Hot Plates	02
18.	Washing Machine	01
19.	Vacuum Cleaner	01
20.	Lamination machine	01
21.	Paper Cutting Machine	01
22.	Spiral Binding Machine	01
23.	LED Projector with Monitor	01
24.	Display Boards	01/class room
25.	Preschool tables and chairs	30
26.	Indoor play materials for children (Puzzles, block of different shapes/size/colour, shapes, beads, books, balls, bat, kitchen sets, doctors sets, colour concept, toys, soft toys, dolls, push and pull toys, children dresses magnet lens, construction toys CDs, etc.)	
27.	Doll House	01
28.	Sea-saw	01

29.	3 Way Rocker	03
30.	Easel Boards	02
31.	Fun Station	05
32.	Pony Riders	05
33.	Water Storage Tanks	01
34.	Utensils for Children (Plates, bowls, glasses etc.)	
35.	Dining table for children	03
36.	Small almirahs for children	10
37.	Cooking utensils	
38.	Storage almirah for lab material	06
39.	Carpets/Foot mats	03 per room
40.	Book racks	02
41.	Cloth and plastic aprons	30
42.	Educational posters and charts	05 – 10
43.	Low height activity tables	04
44.	Anthropometer Rod	01

E. Department of Textiles and Apparel Designing

S.No.	Name of Equipment	Quantity
1.	Industrial Sewing Machines	10
2.	Button Hole Machine	01
3.	Interlock Machine	01
4.	Overlock Machine	01
5.	Flat Knitting Machines	05
6.	Cutting Tables	04
7.	Blocks and Printing Screens	05 each
8.	CAD / CAM Software	01
9.	LCD Projector Screen	01
10.	LED Monitors	10
11.	Laserjet Printer	02
12.	Laserjet Coloured Printer	01

13.	Dye Bath	01
14.	Hot Plates	02
15.	Refrigerator	01
16.	Fully Automatic Washing Machine	01
17.	Fly Shuttle Loom	01 set
18.	Electronic Weighing Scale	01
19.	Iron	10
20.	Iron Board	10
21.	Mannequins	08
22.	Spiral Binding Machine	01
23.	Paper Cutting Machine	01
24.	Photocopier	01
25.	Microwave Oven	01
26.	Water Purifier	01
Vocational Training Equipments		
27.	Foot Sewing Machines	10
28.	Electrical Sewing Machine	05
29.	Iron	05
30.	Iron Board	02
31.	Mannequins	02
32.	Computerized Embroidery Machine	01
33.	Computer and printer	02