

**Department Of Public Instruction
Samagra Shiksha Kerala**

Support for Preschool Education 2021-22

Guidelines

Annual Plan 2021-22

- Child-friendly furniture
- Outdoor play equipment
- Building as a Learning Aid (BaLA)

Support for Preschool Education

Guidelines

Message

Pre primary classes should include activities that provide a variety of experiences, considering the areas of child development and the level of multiple intelligences. Samagra Shiksha Kerala 2021-22 Annual plan focuses on providing necessary infrastructure to prepare for such experiences. Fund will be provided to 163 schools for manufacturing child friendly furniture, outdoor play equipments and Building as a Learning Aid (BaLA). Samagra Shiksha Kerala has developed a guideline for the effective implementation of the scheme. The guideline has been prepared in the form of instructions. In addition to the prescribed guidelines, innovative models can also be implemented ensuring the safety guidelines and quality of the building materials. Hope to make use of this Guideline for the time-bound completion of the scheme at selected schools.

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Child Friendly Furniture- Models

The Seats at Activity areas and corners

MODEL 1

- Considering the height of the child.
- Spacious enough to occupy four to five children for doing activities at a time.
- Can be made of wood or treated wood so as to avoid sharp edges.
- Can be made of strong, lightweight materials that can be replaceable.
- The surface can be covered with waterproof material that can be easily washed and cleaned.

MODEL 2

Each child should be provided with a small individual table in which they can store their own work books, pencils, crayons, sketch pens etc. For this, Separate drawer or lids which can be lifted may be designed and arranged.

It should be made of wood or treated wood material so as to avoid sharp edges.

- Interlocking rubberized floor mats may be used. This avoids risk factor.
- Working table (for children to do activities while sitting on the floor).
The working table should have enough height from the floor mat and be spacious enough to engage around five to six children to do their activities together.

MODEL 3

CUBE-SHAPED SEATS

Wooden Square blocks with different colors on each side of the square cube.

- Seats with six sides.

‘Chenda’ shaped seating table

The ‘Chenda’ shaped seats which the children can use as an instrument.

Wooden chairs

Chairs of different shapes and pictures of creatures.

Mushroom-shaped seats

- Cushioned upholstered chairs in different colors and designs with proper height suitable for the children to sit.
- The bottom portion of the cushion can be made of light weight materials.

Desk/bench-set for the class room

- It should be made of wood or treated wood materials avoiding sharp corners and edges.

Display boards

Showcase with glass covers to display creative products by the children. The interior of the showcase should be made of material that supports drawing pins and needles.

Show Gallery

- A space in the wall to display the products of children.
- Find a specific place to fix the products with the help of pin and hooks.

School Bag Trolley

The school bags of the children should be kept arranged.

For clean and attractive arrangement of the bags,

1. Hooks: School bags can be kept over the rack or could be hung at the sides using hooks.
2. Racks with special compartments to arrange bags horizontally.

Waste bin- The Waste bins with the shape of animal/bird that the children love.

Shoe Rack

Special arrangements for keeping shoes and sandals during rainy and other seasons should be made. Different shoe racks can be made for that.

1. An arranged $\frac{1}{2}$ a foot length of PVC pipe of three or four inches can act as a shoe rack.
2. Long stand made of wood/GI pipe will serve the purpose of a shoe rack.

BaLA (Building As a Learning Aid)- in Preschools

The preschool organizes activities that are conducive for the development of various development fields in a child. For serving this purpose, *Thalolam* activity corners have been set up at existing recognized pre-schools. With proper planning and remodeling of our existing preschool buildings, we could arrange activities based on different themes for our children that will help them improve their multiple intelligence. Floor, walls, outer-walls, veranda and pillars can be made use for this purpose. Recommendations to modify preschool building as a part of (BaLA) 'Building as a Learning Aid' is given below.

Green Mat Wall

Theme

- 5 plants – fruits, 9 flowers –garden-butterflies, 13.creatures, 22.vehicles, 26.sky

Capabilities

- Simple activities can be done by utilizing the small muscles in the body.
- Helps perform functions that co-ordinate minute muscles.
- Concepts can be expressed with the help of two and three dimensional structures.
- Engages in pre-writing activities.

Developmental areas

Physical and motor development, cognitive development, creative and aesthetic development, language development.

Rough area should be prepared on the wall at a height of three feet from the floor. Children should be able to draw and paste objects temporarily based on different themes on this rough area. Here you can arrange different shapes of blackboards depending on different themes.

Sufficient jigsaws related to different themes can be arranged here and the children can make shapes based on these themes. (Ex: vehicles, creatures, plants, fruits). This surface can be used both as a writing board and a flannel board at the same time.

Game Circles

Theme

27. Games, Entertainments

Abilities

- Able to perform free and controlled simple activities making use of almost all muscles of the body
- Able to make use of the parts of the body by crawling, bowing, expanding kneeling and changing sides as required

Areas of Development

Physical development, cognitive development, social and emotional development, creative and aesthetic development, linguistic development

Activity

The floor is painted as in (fig: 2). Children can make variety of movements along the lines as in the figure, following the instructions given by the teacher and their friends. Children can enact as creatures and walk along the line making sounds with the instruments from the music corner.

Music Wall

Theme

Can be used for all 30 themes.

Capabilities

- Able to sing songs rhythmically
- Able to make rhythmic sounds and movements of the body.
- Able to make musical instruments and enables movement of the body.

Areas of development

Physical development, cognitive development, social and emotional development, creative and aesthetic development, linguistic development

Activity

The music wall can be arranged on the outer wall of the class room (Fig.3). The music wall can be set using different materials which produce different sounds (bowl, spoon, glass etc)

Wall Basket Ball

Theme

27 games and entertainment

Capabilities

- Simple activities can be done by utilizing the small muscles on the face, shoulders, wrists, fingers, feet, and knees.
- Able to perform free and controlled simple activities making use of almost all muscles of the body
- Able to develop motor skills.
- Able to do simple activities in a free or controlled manner using most of the muscles of the body

- The talents and the good deeds of others are encouraged and acknowledged.

Areas Of Development

Physical development, cognitive development, social and emotional development, creative and aesthetic development, linguistic development.

Erect three baskets in the wall at about 4, 5 and 6 feet respectively from the ground as shown in the figure (fig.4). The activity for the child is to hit the balls into the baskets at free times and when the teacher suggests.

Window Grill

Theme

18. Games, Entertainments

Capabilities

Engages in pre-writing activities.

Areas Of Development

Physical development, cognitive development, social and emotional development, creative and aesthetic development, linguistic development.

Activity

It will be more suitable for pre-writing skills if the windows in the pre-primary classrooms are re-constructed as in the picture (fig 5). The children can make their fingers go through the metal rods and thus engage in pre-writing skills.

Pipe Phone

Capabilities

- Can make rhythmic sounds and move body parts freely.
- Adapts to situations and can make use of the body by bending, shifting sideways, crawling, kneeling and walking on bent knees, expanding and shrinking.
- Able to present stories, songs, incidents and events with appropriate emotions expressively (voice modulation, expressions, gesture, tone, rhythm, movement)

Theme

Games, Entertainments

Areas Of Development

Physical development, linguistic development.

Activities

Rail, as part of the 'Ramp and Rail' and the pipes used as handrails in the stair cases can be used for this purpose. Two children can at a time engage in a conversation.

Large Mirrors In Public Places And Classrooms

Capabilities

- Able to attain different identities which will help the child enact and perform in role plays.

- Know about health and hygiene habits.
- Able to create and tell their own stories and thereby enacting the characters.

Theme

- Me and My Health - Hygiene
- Games, Entertainments

Activities

Install large mirrors in public places and classrooms. Mirrors that are large or larger enough to the overall size of the children should be placed from the ground. Children should get the opportunity to observe and enact themselves in front of the mirror.

Outdoor Recreational Tools

Suggestion 1

Theme

Home and surroundings, 2 games and entertainment 27

Capabilities

- Learner's are able to engage themselves in a variety of construction activities by using the local resources.
- Learners are conscious to maintain hygienic habits.
- Learners occupy in simple activities with the involvement of all the muscles in body.
- Learners involve in construction activities with the available surrounding materials.
- Body can be explored by bending, fitting, crawling, kneeling and walking according to circumstances.

Developmental areas

Physical and motor development, cognitive development ,creative and aesthetic development.

Construction Method

- Arrange the floor tiles as grazing circles in a diameter of two meters in a suitable shady area of school courtyard
- Fill half of it with sand
- Containers of different sizes and shapes are set in the sand
- Three or four children can sit inside and fill the shapes with sand.

- The tiles are given variety colors to make it attractive

(Expected cost 2000/-)

After use cover the flap with a tarpaulin and secure

Instruction 2

Theme: Festivals (7),Vehicles(22)

Device name: The Toy Car

Capabilities

- Can play can play individually and collectively along with adults in games and move freely to play a co-operative leadership role.

- Are capable to make rhythmic sounds and move the body parts freely.

- Body can be explored by bending ,tilting ,crawling ,kneeling and walking according to the circumstances.

Areas Of Development

- Physical And Motor Development
- Social And Emotional Development

Construction Method

- Thoroughly polish wooden pieces of 60 x 45 cm size corners must be curved in a safe manner
 - Place small wheels in the four corners on one side of the board
 - Use a chain or thick plastic rope around the width of the character board
- One child sits on the board while other children pull the board

The toy car will be used on the verandas inside the classroom to provide activities for the children.

Expected cost 2000/-

Instruction-3

Device Name: Making Sand heaps

Theme: Home and Surroundings games and entertainment 27

Capabilities:

It is possible to engage in construction activities using a variety of surrounding materials.

The body can be utilized by bending, tilting, crawling, kneeling, walking, bending and expanding according to circumstances. They are able to perform simple activities that are independent and controlled by utilizing the maximum numbers of muscles in the body.

Developmental areas

Physical and motor development, cognitive development, creative and aesthetic development.

Expected cost 2500/-

Construction method

- Prepare a sand dune with a diameter of 2 meters in the appropriate shady area of the school courtyard
- Fill half of it with sand
- Lay the iron pipes on both sides
- Tie a rope in the middle of it and hang the cup and connect the bucket containers to the cup as if it were well(arrange one or two cups)
- Three or four children are trapped inside the sand dunes
- Put small holes in buckets / bowls.
- Pull up the pots filled with soil and you can see the sand dunes.
- Three or four children can play at the same time.

This toy car will provide ample opportunity for learners to engage themselves in activities of the class room and on the verandas.

Suggestion -4

Theme

Games and Recreation

Device Name- A Ladder with tyre

Capabilities

Independent and controlled simple activities can be performed by utilizing the maximum potential of the body.

Areas of development

- Physical motor development, social emotional development

Construction method

- Place the wood at affixed distance as shown in the picture.
- Install the iron pipes and fasten two tires on one side and the other tire at a fixed distance inside the pipe.
- Tires, pipes and timber should be attractively painted and beautifies.
- Let the children climb & descend freely through it.

Suggestion- 5

Theme- Play and entertainment (27)

Device Name- Tyre Pyramid

Capabilities

It is possible to perform light activities that are independent and controlled by utilizing the maximum number of muscles in the body

Areas of development

- Physical Motor development
- Social and emotional development
- Cognitive development
- Creative and aesthetic development
- Language development

Construction method

- Install an eight foot height iron pipe at a suitable location on the school ground.
- Attach a chain that children can hold and climb the tyres from the bottom to the top of the pipe.

Tires can be painted in different colors and made more attractive. old tyre can be used to build the tyre pyramid

Expected cost 5000/-

- Adjust the tyres of different sizes and fix the pipe in middle of tyres.
- The children could grab the chain and step on the tire to climb up and down.

Suggestion - 6

Theme : Games, Entertainment (27)

Capabilities

- Able to perform free and controlled light activities using the maximum number of muscles in the body

Area of development

- Physical and Motor development
- Social and Emotional development.
- Cognitive development
- Creative and aesthetic development
- Language development

Device Name- Monkey Bar

Construction Method

- Lay iron pipes of one meter width, 3 meters length and 4.5-5 feet height at the four corners in a rectangle shape.
- Fix two rows of iron pipes at a distance of 20 cm from the top of the pipe.
- Let the children hang on the iron pipes and play freely

Do not use attached pipes for Monkey Bar construction. Give different colors and make it attractive

Expected cost 7000/-

Suggestion- 7

Themes: Games, Entertainments (27)

Capabilities

- It is able to perform free and controlled light activities utilizing the maximum number of muscles in the body.

Areas of Development

- Physical motor development
- Social emotional development
- Cognitive development

Device Name: Children's climbing Net

An iron pipe should be placed on the wall and the nets are to be fastened on it. The bottom of the nets can be sanded if required.

- Creative development
- Language development
- Creative and aesthetic development
- Language development

Construction method

- Buy a thick plastic net 3m long and 4m height (2 no.)
- Fix the net as a slope in the outer wall of the preschool building at a height of 7 feet.
- Let the children climb through the net and play
- The firmness of the net should be checked periodically

Expected Cost- 4500/-

Suggestion-8

Theme: Games, Entertainments(27)

Capabilities

- Its able to perform free and controlled light activities utilizing the maximum number of muscles in the body

Areas of development

-Physical motor development

Device name :Basket Ball Stand

This toy should be placed inside the classroom and on the school grounds and kept in the classroom after use

- Social and emotional development
- Cognitive development

Construction method

- Construct two stands of different sizes (2m height, 1 and half meter height). Using three iron pipes.
- Fasten the basket to the top of the stand
- Let the children throw the ball inside the basket on the stand.
- Pay attention to construct the feet of the stand different in shapes

Expected cost-3000/-

Suggestion-9

Theme: Games, Entertainments(27)

Capabilities

- It is able to perform free and controlled light activities utilizing the maximum number of muscles in the body.

Areas of Development

- Physical and motor development

Device name: Monkey Bar 2 (Monkey Bar for children)

The wires should be colored and made attractive. Mathematical shapes in the stands should be given in different colors.

- Social and emotional developments
- Cognitive developments
- Creative and aesthetic developments
- Language developments

Construction method

- Make a stand of iron pipe at a height of one and half meters
- The legs on either side of the stand should be constructed different shapes. (Triangle, Circle, Square).
- There should be steps on the stand, so that children can climb on them.
- During the leisure time the children can go up and down and sitting and hang out on it.

Expected cost- 4000/-

Suggestions-11

Themes: Play And Entertainments(27)

Device Name- Jungle Jim

Capabilities

It is able to perform free and controlled light activities can be done by utilizing the maximum number of muscles in the body.

Areas of development

- Physical motor development
- Social and emotional development
- Cognitive development
- Creative and aesthetic development
- Language development

Construction Method

- Jungle Jim is five feet high.
- Construction in the shape of pyramid using iron pipe as shown in picture.
- Kids can climb, descend and walk upstairs at curl.

- It is advisable to color the mathematical shapes in such a way as to enable them to count
- Should be placed in a suitable place in the school ground

The Jungle Jim offers opportunity for safe times pass and games. The presence of teacher's in games should be ensured.

Expected Cost- 9000/-

Suggestions-12

Themes: Play, Entertainments (27)

Device Name: Moving Horse

Capabilities

- It is able to perform free and controlled activities by utilizing the maximum number of muscles in the body.

Areas of development

- Physical motor development
- Social and emotional development
- Cognitive developments
- Creative and aesthetic developments
- Language developments

Construction Methods

- A moving horse should be placed on the school ground
- Buy or build a moving horse
- Let the children move freely on the moving horse

It is advisable to avoid plastic while making a moving horse. Two or three horses made of rails will be arranged at a suitable place. The horses should be placed in dry place.

Expected Cost 4000/-

Suggestion-13

Themes:-Play, Entertainments(27)

Device Name: Merry-Go-Round

Capabilities

- It allows independent and controlled light activities that can be done by utilizing the maximum number of muscles in the body

Areas of developments

- Physical and motor developments
- Social and emotional developments

- Cognitive developments
- Creative and aesthetic development
- Language development

Construction Method

- Iron pipes and thick plates are used to construct the merry-go-round
- A maximum of two meter diameter will be sufficient.

Many children can do this training merry-go-round at the same time. Care should be taken to protect it from the rain.

- Children should be able to get on and off the floor easily
- Adequate comfort should be ensured for easy rotation
- The wires can be given an attractive color.

Expected Cost:6000/-

Suggestion-14

Device Name- See Saw

Theme: Play, Entertainment (27)

Capabilities

It is able to perform free and controlled light activities that can be done by utilizing the maximum number of muscles in the body.

Areas of development

- Physical Motor development
- Social and emotional development
- Cognitive development
- Creative and aesthetic development
- Language development

Construction Method

- See-Saw to build with iron pipe, rails and wooden planks as shown in the figure.
- The sand should be spread over the place where the see saw is fixed.
- Security must be ensured

Can give attractive color

Expected Cost:6000/-

Suggestion-15

Theme: Play, Entertainments(27)

Device Name: Swing

Capabilities

It is able to perform free and controlled light activities that can be done by utilizing the maximum number of muscles in the body.

Areas of development

- Physical Motor development
- Social and emotional development
- Cognitive development
- Creative and aesthetic development

- Language development

Construction Method

- The swing is made of iron pipes ,chains and planks
- Sand should be spread on the place where the swing is placed
- Multiple swings can be placed on the same stand
- Safety of children must be ensured

Hanging chains and nets of rods should be specially colored and made attractive

Expected cost-7000/-

Suggestion- 16

Theme: Play, Entertainment(27)

Device Name: Slide

Capabilities

It is able to perform free and controlled activities that can be done by utilizing the maximum number of muscles in the body

Areas of development

- Physical Motor development
- Social and emotional development
- Cognitive development

Can give attractive colour.

Less than ten steps are enough.

Safety should be ensured.

- Creative and aesthetic development
- Language development

Construction method

- Plastic should be avoided for the construction of slide
- It should be constructed with cement, iron bars and fixed at suitable place in the school ground
- Attractive specimen of creatures can be arranged on the sides

Expected cost- 12000/-

40,41,42 -PICTURES