

65

**MINUTES OF 62<sup>ND</sup> MEETING OF EXPERT GROUP ON ZOO DESIGNING OF  
CENTRAL ZOO AUTHORITY**

**MONDAY, 13<sup>TH</sup> JULY, 2015**

The 62<sup>nd</sup> Meeting of Expert Group on Zoo Designing of Central Zoo Authority was held under the Chairmanship of Shri Vinod Ranjan, Additional Director General of Forests (Wildlife) cum Member Secretary, CZA in the office of Central Zoo Authority at Hotel Janpath, New Delhi on 13<sup>th</sup> July, 2015. The list of participants is annexed at **Annexure – I(A) & (B)**. Following agenda items were taken up for discussion:

**Agenda item No.1                      Designs of proposed construction of enclosures**

**I. Thiruvananthapuram Zoo, Thiruvananthapuram:-**

*(Ref:- MZ(F)-1596/2015, Dt.25.05.2015, MZ(F)-7522/2007, Dt.16.05.2015 & MZ(F)-3561/2010, dt.04.07.2015 from the Director, Thiruvananthapuram Zoo)(Master layout plan and Master Plan approved)*

**1. Revised design of proposed construction of enclosure for Aquatic aviary:**

Members, on scrutiny approved the design of proposed construction of enclosure for Aquatic aviary at Thiruvananthapuram Zoo, Thiruvananthapuram, subject to following observations:

- a) The number of islands (of varying sizes) should be located asymmetrically to provide varying access of water.
- b) The depth of water at centre should be between 1.5 to 2.0 mts.
- c) Part of viewing area may be made to intrude in to the pond to provide immersion experience.

**2. Revised design of proposed construction of enclosure for Gaur:**

Members, on scrutiny of design of proposed construction of enclosure for Gaur at Thiruvananthapuram Zoo, Thiruvananthapuram, did not approve the design, however made following observations:

- a) The area which is behind the keeper's gallery is waste and not usable.
- b) The enclosure should be so located that above mentioned area becomes the part of main enclosure.
- c) The width of keeper's gallery should not be less than 3 mts.
- d) It is further advised to refer to publication of the Central Zoo Authority titled 'Designing of Enclosures for Indian Zoos – 2014'
- e) The size of chain-link may be 75 x 75 x 8 guage.
- f) The doors between cells should be sliding.

**II. Rajiv Gandhi Zoological Park and Wildlife Research Centre, Pune:-**

*(Ref:RGZP-111, dt.11.06.2015 from the Zoo Director, Rajiv Gandhi Zoological Park and Wildlife Research Centre, Pune) (Master layout plan and Master Plan approved)*

65

**Enclosures for herbivores:**

The design was scrutinized and approved subject to following observations:-

- a) Sliding door- Size is reported to have been reduced but height of door has not been given which should not be less than 1.5 m.
- b) Drop down gates proposed for entry and exit of herbivores like deer etc would be difficult to operate due to large size and weight thereof. Therefore, sliding doors should be provided for this purpose, to be operated from either side of the night cells, keeping the number of night cells only two.

**Enclosures for Primate, Carnivores (small and large):**

- a) Plan and elevation for these enclosures have not been given which should be resubmitted with all necessary details for checking and approval.

**Treatment / Examination Block and store block:**

- a) Since there is a veterinary hospital in the zoo, justification for building a separate treatment/ examination block for rescue centre should be provided. Similarly, justification for having separate store and kitchen for rescue centre should also be provided.

**Agenda item No. 2**

**Master Layout Plan of Zoos**

**I. Shetakari Shikshan Mandal, Dholgarwadi, District Kolhapur, Maharashtra:**

*(Ref:-Letter No.40/2015, Dt.20.05.2015 from the Secretary, Shetakari Shikshan Mandal, Dholgarwadi with reference to this office letter F.No.19-213/93-CZA(176)(NS)/6951, Dt.07.04.2015)*

**1. Revised Master Layout Plan:**

Members, on scrutiny of revised Master Layout Plan of Shetakari Shikshan Mandal, Dholgarwadi, District Kolhapur, Maharashtra, did not approve however following observations were made:

- a) Since the zoo is a snake park only, there is no point in keeping monitor lizard and tortoises and terrapins. However, if the zoo wishes to acquire certain species, should send detailed animal collection plan for approval of the Central Zoo Authority.

**II. Mini Zoo cum Deer & Tiger Safari, Bathinda, Punjab:**

*(Ref:- No.1962, dt.18.06.2015 from the DFO, Bathinda)*

**1. Revised Master Layout Plan**

Members on scrutiny of revised Master Layout Plan of Mini Zoo cum Deer & Tiger Safari, Bathinda, Punjab did not approve the same however made following observations:-

- a) Since the feed supply cannot be taken to feeding cells through Safari, therefore position of feeding cells shall have to be changed as indicated on the layout plan.
- b) Safari boundary to be re-aligned at North-East corner as shown on layout plan and suitable approach road shall also be provided.
- c) An emergency exit shall be provided, as indicated.
- d) Western corner appears to be part of deer safari. Therefore, gate shown there is not required.

65

- g) Proposed safari will exist in the natural forest. What safeguard is proposed against leopards crossing the fencing of enclosure from forest outside and preying upon deer and antelopes?

#### **Design of proposed construction of enclosure for Jungle Cat:**

The design was scrutinized and not approved, however following observations were made:-

- a) Lay out of enclosure indicating area to be enclosed has not been submitted. It should be submitted for checking.
- b) Inclined chain link at the top of vertical chain link fencing will not suffice for the jungle cat. Inclined part has to be either stainless steel plate or the entire top of the enclosure will need to be covered with chain link.
- c) For jungle cat chain link of the size 50x50 mm x10 G would be more appropriate than the size provided.
- d) In night cells the interconnecting doors of cells should be sliding type and the doors opening on the outer side to be draw up type. To reduce their wt. and for easy operation their sizes should be 450x600mm (to be marked (D3))
- e) Catch drain of 150x150 mm size, along the night cells in keeper gallery, should be provided to drain water out of the house to be discharged in to a soak pit .

#### **Design of proposed construction of Jungle fowl Aviary:**

The design was scrutinized and not approved, however following observations were made:-

- a) For covering the aviary on the top, size of wire net appears too small, it may be replaced by 25x25mmx12 G size chain link for clearer viewing.
- b) The ht. of dwarf wall may be reduced to 450 mm and ht. of vertical pipe and its foundation may be corrected accordingly.
- c) Spacing between vertical GI pipes may be increased to 2500mm instead of 1800mm. and size of arched pipe at the top also appears oversized , unnecessarily increasing load on the vertical pipes. This observation may be got checked by Structural engineer to ensure stability of the structure.

#### **Design of proposed construction of Boundary Wall fencing:**

- a) Since there are chances of electrical failure due to reasons beyond control, it is advisable to use concertino wire also at the top of masonry wall besides providing hot wires, because the park adjoins Mahananda sanctuary.
- b) Elephant proof trench should also be shown in plan, elevation and section to remain in record of CZA.

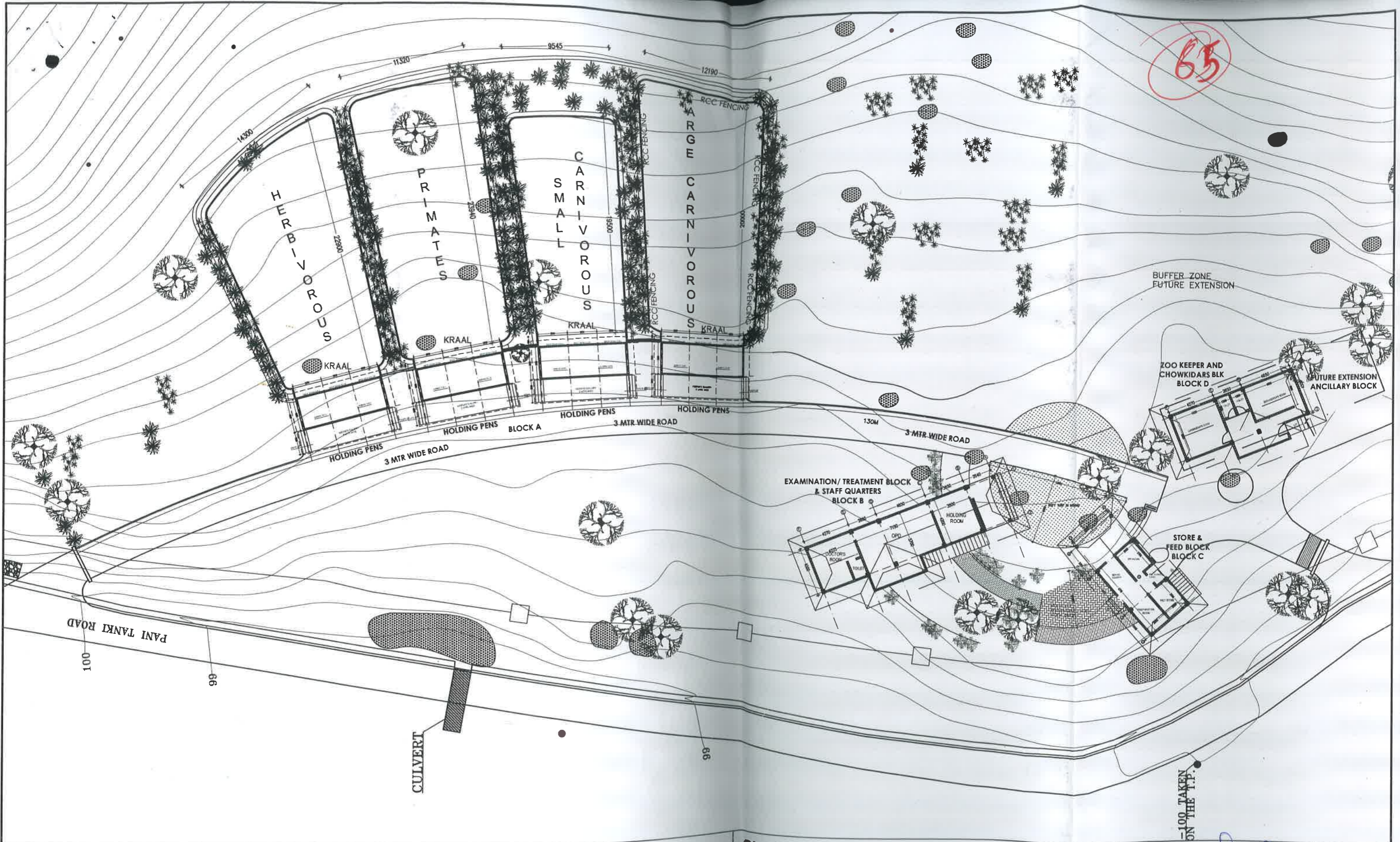
#### **XI. Himalayan Zoological Park, Gangtok, Sikkim:-**

(Ref:- 17/HZP/FEWMD, dt.03.07.2015 from the Director, Himalayan Zoological Park w.r.t. CZA's letter dt.09.06.2015)

##### **1. Revised design of proposed construction of Rescue Centre:**

Members, on scrutiny of revised design of proposed construction of Rescue Centre at Himalayan Zoological Park, Gangtok, Sikkim, made following observations:-

65



PROPOSED RESCUE CENTER  
 HIMALAYAN ZOOLOGICAL PARK, GANGTOK  
 for

SIKKIM BIODIVERSITY CONSERVATION & FOREST MANAGEMENT PROJECT UNDER JICA  
 FOREST ENV & WILDLIFE MANAGEMENT DEPARTMENT  
 GOVERNMENT OF SIKKIM.

APPROVAL DRAWING  
 SITE PLAN  
 SCALE: NTS, 30-05-2012  
 DWG NO : .....  
 REVISION : 03-07-2015.....

CLIENT

DIRECTOR ..  
 D.FE....  
 ASSISTANT ENGG

FOREST ENV & WILDLIFE MANAGEMENT DEPARTMENT  
 GOVERNMENT OF SIKKIM

ARCHITECT

*Phaal*  
**PAN**  
 architecture  
 Gangtok-737101  
 #A/97/21974 IV/11/067 '03 246(24)95/P/11

**PAN** architecture,  
 Holiday Hill, Gangtok, Sikkim

notes:

- do not scale drawings
- all dimensions are in millimeters unless specified
- any omission or mistake or discrepancy shall be the responsibility of the consultant's office well before execution and execution
- existing schedule to be followed as specified
- levels, protective work layout and other details features may change as per the site condition
- any changes or modification of any kind to be brought to notice of the consultant's office prior to execution
- no other responsibility left with the contractor shown by us or consultant