

Minutes of 49th meeting of the Expert Group on Zoo Designing of CZA held on 12th March, 2014 in the office of the Central Zoo Authority

The 49th meeting of the Expert Group on Zoo Designing of CZA held on 12th March, 2014 in the office of the Central Zoo Authority, Bikaner House, New Delhi. Sh. B. S. Bonal, Member Secretary, Central Zoo Authority welcomed the members to the meeting. The leave absence for Sh. A. S Dogra, Prof. Surinder Seneja, CCU (Chief Engg), MoEF and Sh. P. C. Tyagi (Special Invitee) was recorded. The list of members present during the meeting is annexed at Annexure I.

The meeting began with the presentation from the zoos on master (layout) plan and design of the animals exhibits, who has been invited or else come to Delhi to attend the meeting.

Agenda Item No1. Master (layout) Plan of the Zoos

1. Jammu Zoo, Jammu

Dr. Yuvraj, Consultant from Mumbai on behalf of the Jammu Zoo, Jammu delivered a presentation on the revised master layout plan . The revised Master (layout) Plan was scrutinized and following observations were made:

- I. Compliance report has not been submitted by the Zoo Operator i.e. CWLW of Jammu
- II. Nocturnal Animal House has not been removed.
- III. Water birds should have been removed.
- IV. Lion and Tiger shall not come under the category of omnivore; it should be replaced by carnivore.
- V. Screening between enclosures should be provided.
- VI. No changes have been carried out as suggested by this Authority, thus the master layout plan is not being approved.

The zoo authorities are requested to submit revised master layout plan along with compliance report.

2. Bhagwan Birsa Biological Park, Ranchi

The master (layout) plan was scrutinized and approved subject to the following amendments:

- I. Since it is a large area provision of patrolling path all along the boundary wall should be made from inside boundary in the master (layout) plan.
- II. The present black top road connecting enclosure 11 to 27 should be discontinued.
- III. Enclosure 29 and 30 for hippo should be merged in one and 5 A and 5 B for tiger should also be merged and managed as one enclosure, after constructing adequate feeding cells.

Since there is only one Barking deer in the collection of the zoo, the design was not approved. The design was approved for Spotted deer, subject to the amendments as of indicated on the design. The corrected copy of the design was handed over to the zoo officials.

6. VJB Udyan Zoo, Byculla, Mumbai

Sh A.M. Anjankar, Director, VKB Udyan Zoo, Byculla and Consultant from the HKS Designer, Mumbai delivered a presentation. After detailed deliberations following decision was taken:

1. Cat complex:

The revised design was scrutinized and approved subject to the following amendments:

- I. The feeding cells size should be of 2.0' X 2.0'.
- II. Drop gate to be provided at the centre cell only.
- III. The gate of holding cells towards the keepers gallery should be in the centre of the grill.
- IV. The outer gate of keepers gallery should of two leaf, opening outside.

The zoo authorities should submit a revised design for signatures and records.

2. Tiger exhibit:

The design was scrutinized and approved however, following changes were suggested:

- I. The service area should be earmarked at green cover.
- II. The visitor path should be manipulated in way visitor have easy access to view the tiger, while the tiger is not inside the water body.
- III. All hinge door should be opened outside.
- IV. Glass viewing should be shifted to one side of the enclosure providing way for visitors straight if animal is not in water.
- V. The water pumping and filtration areas should be located in such way, that it should be visible to visitors at any point of time.
- VI. The artificial water fall should be made naturalistic using large natural rocks and no cement should be used.

The zoo authorities should submit a revised design for signatures and records.

3. Swamp deer exhibit:

The design was scrutinized and approved subject to the following amendments:

- I. The base of the moat should be made of CC with gradual slope inside as shown in design.
- II. The krral should be covered on top by chain link mesh.

4. Aviary:

The design was scrutinized and approved in principle subject to the following amendments and submission of final design for its approval and authentication:

1. The proposed aviary should be made more aesthetic.
2. The shape of the aviary should be made round.
3. All vegetation in the area of aviary and adjoining areas should be protected and not disturbed.
4. The zoo should not make solid concrete walls anywhere; instead board walk with environmental friendly material should be used.
5. The zoo authorities should make a 3-D model using clay or any other material for the appreciation by the visitors and locals.

5. Hyena:

The design was scrutinized and approved subject to that no place for visitors resting should be provided, instead the area should be planted with green.

7. Malsi Deer Park, Dehradun

Sh. I. A. Siddiqui, SDO, Dehradun and Sh. Gulvir Singh, ACF, Dehradun Forest Division delivered a presentation on the proposed animals exhibits for Leopard, Tiger, Hyena, Raptors and Pheasants. The designs were scrutinized and not approved, as the zoo authorities have submitted primitive type designs. The design does not contain the contour, cross section, elevations and dimensions. The members desired that amended copies of the designs should be submitted for its scrutiny. Sample design as approved of Sajjangarh Biological Park, Udaipur were handed over in person to Sh. Siddiqui.

Agenda Item No 2. Designs of Animals Exhibits

1. Rangapahar Zoological Park, Nagaland

As decided in the 46th meeting of the Expert Group on Zoo Designing of CZA held on 3rd January, 2014, Sh. R. S. Bhaduria and Sh Himanshu Malhota, Member of the Expert Group on Zoo Design visited the zoo and suggestive design were laid out at Rangapahar itself keeping in view of the feasibility of the site.

a. Turtle Exhibit:

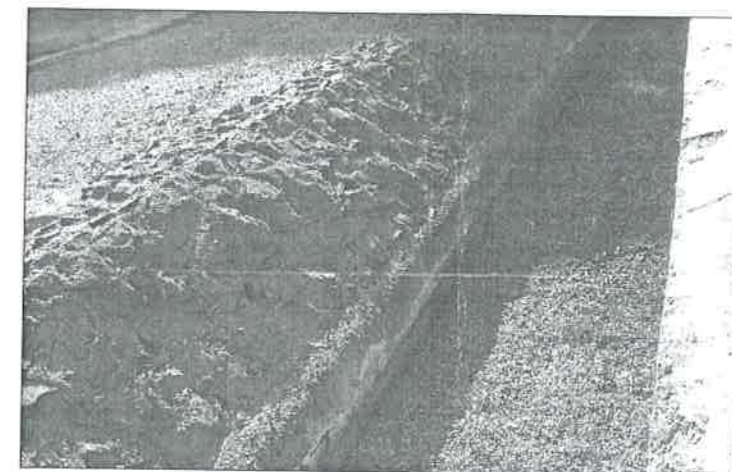
The design was scrutinized and approved subject to the following amendments:

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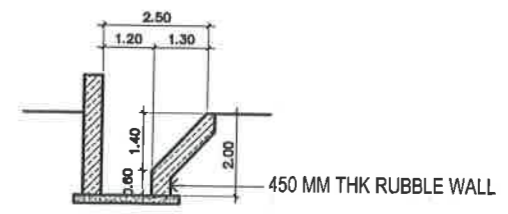


1.00 M. HEIGHT VISITOR SAFETY RAILING

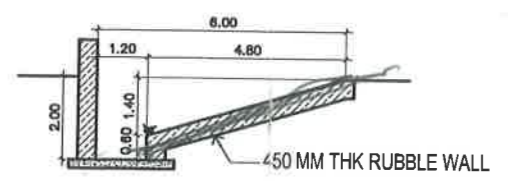
HEAVY PLANTING
3.50m HIGH CHAIN LINK FENCE



REFERENCE IMAGE FOR EXISTING MOAT



EXISTING MOAT



PROPOSED MOAT

SERVICES GATE

2.50M HIGH FENCE

SWAMP DEER EXHIBIT DESCRIPTION
 TOTAL SWAMP DEER EXHIBIT AREA= 2745.89 SQ.M
 No. OF ANIMAL= (M-F-U)(3-4-0)=07

AREA CALCULATION

Sr. No.	EXHIBIT NAME	VIEWING AREA	HOLDING & KRAAL	PADDOCK AREA	WATER BODY	MUD POOL	TOTAL EXHIBIT AREA
1	SWAMP DEER	65.00	279.81	2466.08	38.34	126.16	2745.89

KEY PLAN



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COMMENTS

Sr.No.	COMMENT	DATE	BY

REVISIONS

Sr.No.	REVISIONS	DATE	BY

SHEET TITLE : SWAMP DEER EXHIBIT PROPOSED LAYOUT PLAN

PROJECT :
 RENOVATION OF VEERMATA JIJIABIBHOSALE UDYAN - ZOO
ADDRESS :
 DR. B. AMBEDKAR MARG, BYCULLA, MUMBAI - 400027

Handwritten signature: *Amj.*
 Dir. (200)

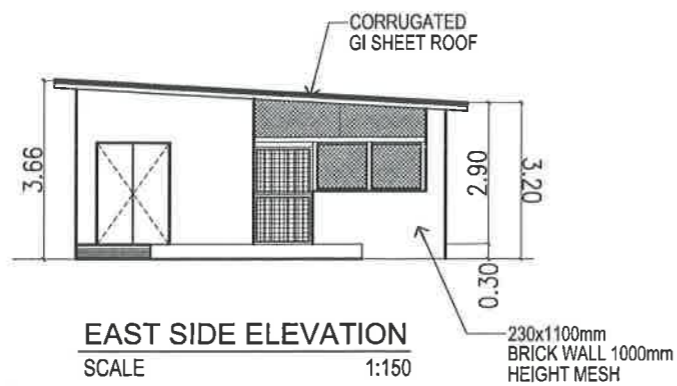
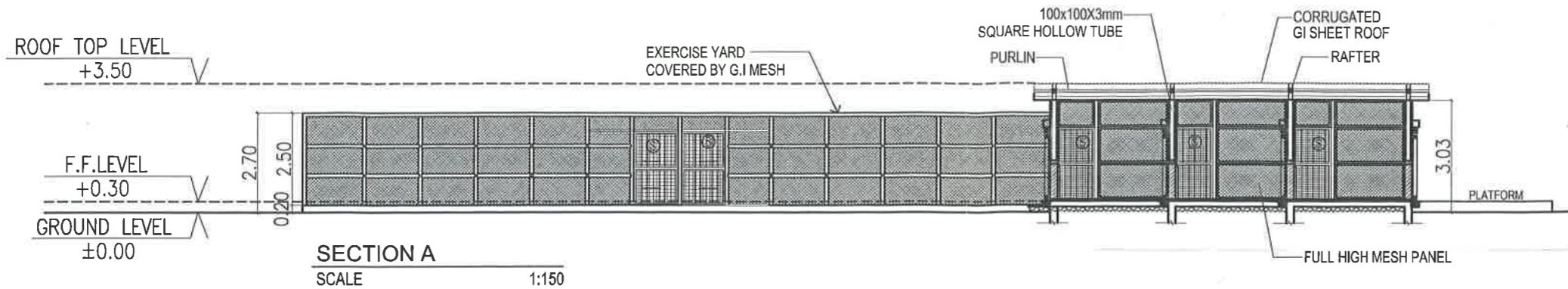
Official stamp with signature: *R.V.D.*

DATE : 01-09-2013 SCALE = 1:250
 DRAWN BY : FAZAL CHD BY : Dr. Kazveen

DRAWING NO. HKS-SD-01

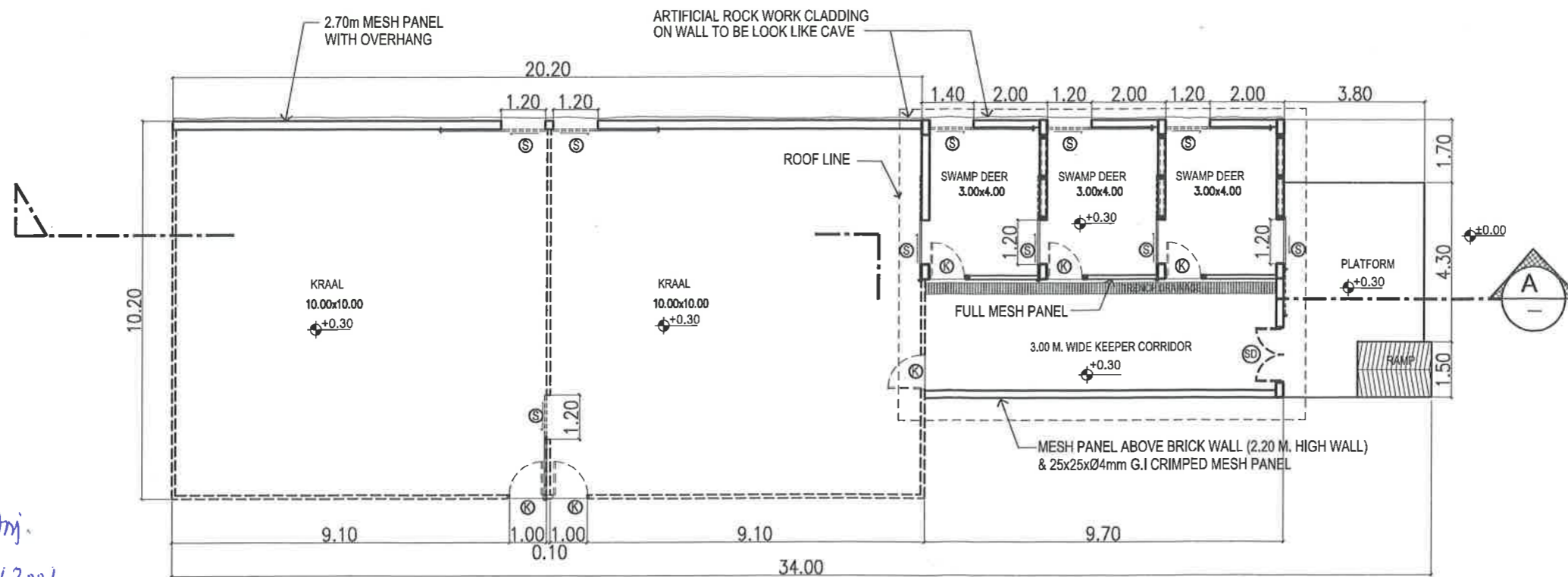
PROPOSED LAYOUT PLAN SWAMP DEER EXHIBIT 1:250

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DOORS & WINDOWS SCHEDULE

S.NO.	SYM.	OPENING SIZE	DESCRIPTION	QTY.
01	K	1000 x 2100 mm	KEEPER SWING DOOR	06
02	S	1200 x 2100 mm	ANIMAL SLIDING DOOR	10
03	SD	1500 x 2100 mm	KEEPER SERVICE DOUBLE DOOR	01



HOLDING PLAN
SCALE 1:150

HOLDING DETAIL 1:150
SWAMP DEER EXHIBIT

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OPERATIONS CONSULTANT :
SECURITY CONSULTANT :
P & D (MCGM) :



COMMENTS

Sr.No.	COMMENT	DATE	BY

REVISIONS

Sr.No.	REVISIONS	DATE	BY

SHEET TITLE : SWAMP DEER EXHIBIT
HOLDING DETAIL

PROJECT :
RENOVATION OF VEERMATA JUJABAI BHOSALE
UDYAN - ZOO
ADDRESS :
DR. B. AMBEDKAR MARG, BYCULLA, MUMBAI - 400027



DATE : 01-09-2013 SCALE : 1:150
DRAWN BY : AJAZ CHD BY : V.V.P

DRAWING NO.
HKS-SD-02

Amj.
Div (200)

