

MASTER LAYOUT PLAN FOR GREENS ZOOLOGICAL, RESCUE & REHABILITATION KINGDOM, JAMNAGAR, GUJARAT.



AREA STATEMENTS :-
 SITE AREA = 1012154.7 Sqm. = 250.1 ACRE
 PERM. GROUND COVERAGE - 10% = 101215.47 Sqm. = 25.01 ACRE
 PERM. F.S.I. - 30% = 303646.41 Sqm. = 75.03 ACRE
 MIN. GREEN AREA REQ. - 30% = 303646.41 Sqm. = 75.03 ACRE

SITE AREA = 1012154.7 Sqm. = 250.1 ACRE
 AREA ENGAGED FOR ANIMALS ON SITE - 233504.74 Sqm. = 57.69 ACRE (~ 23%)
 TOTAL GROUND COVERAGE ON ZOO SITE - 34144.74 Sqm. = 8.43 ACRE (~ 3.3%)
 TOTAL AREA ENGAGED ON SITE - 316544.74 Sqm. = 78.21 ACRE (31.2%)
 REMAINING AREA - GREEN COVER = 1012154.7 - 316544.74 = 695609.96 Sqm. = 171.88 ACRE (~ 42.5%)

OTHER ALLIED FACILITIES AREAS :-

ENTRANCE PLAZA = 11900 sqm
 INTERPRETATION CENTRE = 1700 Sqm.
 ANIMAL HOSPITAL = 1200 Sqm.
 ANIMAL KITCHEN & FOOD STORE = 250 Sqm.
 FODDER SHED = 300 Sqm
 MAINTENANCE SHED = 300 Sqm
 ADMIN OFFICE = 750 Sqm.
 TICKET COUNTERS = 150 Sqm.
 INCINERATOR = 500 Sqm
 QUARANTINE = 1000 Sqm
 CAFETERIA 3 NO'S = 4500 Sqm.

OTHER MISCELLANEOUS AREA LIKE = 3000 Sqm.
 :- Toilets, Garbage room,
 Night watchman huts etc.

TOTAL - 25550 Sqm.

AREA ENGAGED FOR ROADS :-
 AREA ENGAGED FOR MAIN ROADS ~ 6466 x 4.5 = 29097 Sqm.
 AREA ENGAGED FOR SERVICE ROADS ~ 5804 x 4.5 = 26118 Sqm.
 AREA ENGAGED FOR SERVICE ROADS ~ 2720 x 3 = 8160 Sqm.
 AREA ENGAGED FOR CYCLE ROADS ~ 970 x 4.5 = 4365 Sqm.
 67740 Sqm. (= 16.73 ACRE)

PARKING AREA = 15000 Sqm.
 AMPHITHEATER = 300 Sqm.
 TOTAL = 15300 Sqm.

ZOO AREAS :-

AREAS	AS / CZA	PROPOSED	PROPOSED	PROPOSED
INDIAN SPECIES AND EXOTIC SPECIES	106560 Sqm	195760 Sqm	4077.55 Sqm	4290 Sqm.
RESCUE AND REHABILITATION CENTRE	2700 Sqm.	3600 Sqm.	227.19 Sqm	
TOTAL	109260 Sqm	199360 Sqm	4304.74 Sqm	4290 Sqm.

GROUND COVERAGE FOR BUILDINGS
 OTHER THEN NIGHT HOUSES FOR ANIMALS - 25550 Sqm

ROADS - 67740 Sqm.

TOTAL GROUND COVERAGE ON ZOO SITE - 34144.74 Sqm.
 (4304.74 + 25550 + 4290 = 34144.74 Sqm.)

AREA ENGAGED FOR ANIMALS ON SITE - 233504.74 Sqm.
 (199360 + 4304.74 + 4290 + 25550 = 233504.74 Sqm.)

TOTAL AREA ENGAGED ON SITE - 316544.74 Sqm.
 (199360 + 4304.74 + 4290 + 67740 + 15300 = 316544.74 Sqm.)

REMAINING AREA - GREEN COVER = 1012154.7 - 316544.74 = 695609.96 Sqm.

RESCUE AND REHABILITATION CENTRE :-

S.No	Enclosure	LOCATION GRID	No. of Animals proposed	PADOCK AREA AS / CZA (Sqm)	PADOCK AREA PROPOSED (Sqm)	PROPOSED KRAAL (Sqm)	BUILDINGS (Sqm)	Comments
1.	LEOPARD	15, 16 - H	6X3=18	500+400=900 X3 = 2700 Sqm.	1200X3 = 3600 Sqm.		75.73 X 3 = 227.19 Sqm	
						2700 Sqm.	3600 Sqm.	227.19 Sqm.

74.	PHEASANTS:- Golden Pheasant, Silver Pheasant, Ring-necked Pheasant, Red jungle fowl, Grey jungle fowl, Kati pheasant	4, 5 - M	30	300 x 5 = 1500 Sqm	3500 Sqm.			
75.	PUDU	5 - M	6	500+400=900 Sqm.	1200 Sqm.	95 Sqm.	67.17 Sqm.	
76.	MOUFLON	5, 6 - M	15	500+1300=1800 Sqm.	2200 Sqm.	90 Sqm.	67.17 Sqm.	
77.	BARBARI SHEEP	5, 6 - L-M	15	500+1300=1800 Sqm.	2200 Sqm.	90 Sqm.	67.17 Sqm.	
78.	WHITE RHINO	6 - L	6	2000+1600=3600 Sqm.	5000 Sqm.	200 Sqm.	215.55 Sqm.	
79.	AFRICAN ELEPHANT	7 - L	5	5000 Sqm.	7000 Sqm.		191.88 Sqm	
				106560 Sqm.	195760 Sqm.	4290 Sqm.	4077.55 Sqm.	

The Detailed Project Report (DPR) submitted along with Master (Layout) Plan for proposed establishment of the Greens Zoological Rescue and Rehabilitation Kingdom at Jamnagar, Gujarat by Reliance Industries Limited was approved by the 33rd Meeting of the Central Zoo Authority (CZA) held on 12.02.2019 as recommended by the 81st Meeting of the Expert Group on Zoo Designing of the CZA held on 29.01.2019 and 87th Meeting of the Technical Committee of CZA held on 01.02.2019 subject to conditions laid by the Central Zoo Authority vide its letter F. No. 20-1/2019-CZA(PKR)/27/2019, dated 14.02.2019.

Reliance Industries Limited
 Jamnagar, Gujarat
 Ministry of Environment, Forest & Climate Change
 Govt. of India, New Delhi



LEGEND :-

NO	PARTICULAR	SYMBOL
1	COMPOUND WALL	—
2	DRAIN	—
3	MAIN ROAD	—
4	SERVICE ROAD	—
5	BICYCLE TRACK	—
6	EMERGENCY EXIT ROAD	—
7	H.T. ELECTRIC LINE	—
8	11KV ELECTRIC LINE	—
9	TREE	—
10	ENCLOSURE PROPOSED	—
11	GAS PIPELINE	—

S.No	Enclosure	LOCATION GRID	No. of Animals proposed	PADOCK AREA AS / CZA (Sqm)	PADOCK AREA PROPOSED (Sqm)	PROPOSED KRAAL (Sqm)	BUILDINGS (Sqm)	Comments
FOREST OF INDIA :-								
1.	MONGOOSE	10-LM	6		450 Sqm.			
2.	BATS	10-L	18		300 Sqm.			28.37 Sqm.
3.	GIANT SQUIRREL	10-L	6		450 Sqm.			
4.	BARKING DEER	10,11-LM	12	1500+1000=2500 Sqm.	3000 Sqm.	90 Sqm.		67.17 Sqm.
5.	HIMALAYAN TAHR	11-L	14	500+1200=1700 Sqm.	2200 Sqm.	90 Sqm.		67.17 Sqm.
6.	SAMBAR	10,11-KL	18	1500+1600=3100 Sqm.	3500 Sqm.	90 Sqm.		67.17 Sqm.
7.	SPOTTED DEER	11-K	18	1500+1600=3100 Sqm.	3500 Sqm.	90 Sqm.		67.17 Sqm.
8.	SHAMP DEER	11,12-K	18	1500+1600=3100 Sqm.	3500 Sqm.	50 Sqm.		67.17 Sqm.
9.	CHOWSINGHA DEER	12-K	8	1500+400=1900 Sqm.	2900 Sqm.	90 Sqm.		67.17 Sqm.
10.	PANGOLIN	12-LM	6		1300 Sqm.	50 Sqm.		46.47 Sqm.
11.	OWLS (Forest owl, Indian fish owl, Barn owl)	12,13-LM	21		1500 Sqm.			
12.	AVIARY FOR PHEASANTS (Indian monal, Chaser pheasant, Red jungle fowl, Grey jungle fowl, Kati pheasant)	13-L	30		3000 Sqm.			
13.	WILD BOAR	13-KL	8	500+600=1100 Sqm.	1800 Sqm.	90 Sqm.		67.17 Sqm.
14.	ONE HORNED RHINOCEROS	14-KL	3	2000+400=2400 Sqm.	3000 Sqm.	200 Sqm.		215.55 Sqm.
15.	ASIAN ELEPHANT	15-L	6	5000 Sqm.	7100 Sqm.	50 Sqm.		191.88 Sqm.
16.	SLOW LORIS	15-K	5	400+300=700 Sqm.	1150 Sqm.	20 Sqm.		28.37 Sqm.
17.	SLENDER LORIS	15-JK	5	400+300=700 Sqm.	1150 Sqm.	20 Sqm.		28.37 Sqm.
18.	SLOTH BEAR	15-J	6	1000+400=1400 Sqm.	3100 Sqm.	90 Sqm.		61.36 Sqm.
19.	FISHING CAT	14,15-LJ	6	200+400=600 Sqm.	1200 Sqm.	90 Sqm.		39.02 Sqm.
20.	BENGAL TIGER	13,14-J	6	1000+800=1800 Sqm.	4500 Sqm.	110 Sqm.		88.15 Sqm.
21.	JACKAL	13-J	9	400+700=1100 Sqm.	1500 Sqm.	50 Sqm.		46.47 Sqm.
22.	DHOLE - WILD DOG	12,13-JK	9	400+700=1100 Sqm.	1500 Sqm.	50 Sqm.		46.47 Sqm.
FROGS HOUSE :-								
23.	All amphibians (frogs and toads)	11,12-I	200		1500 Sqm.			
INSECT LIFE :-								
24.	ALL INSECTS ONLY - Insectarium	12-HJ	200		1700 Sqm.			
AQUATIC KINGDOM :-								
25.	ALL FISHES (Aquarium including Anguilla and Red pond)	12,13-H	300+60		1500 Sqm.			
DRAGONS LAND :-								
26.	KOMODO DRAGON	13-GH	10	500+800=1300 Sqm.	2500 Sqm.			
27.	BENGAL MONITOR LIZARD	13-FG	10	80 Sqm.	330 Sqm.			
28.	WATER MONITOR LIZARD	13,14-FG	10	80 Sqm.	330 Sqm.			
29.	GREEN ANACONDA	13,14-FG	6	80 Sqm.	150 Sqm.			
30.	YELLOW ANACONDA	13,14-EF	6	80 Sqm.	150 Sqm.			
MARSHES OF WEST COAST :-								
31.	GHARIYAL	13-C-D	6	400+400=800 Sqm.	1300 Sqm.			
32.	MUGGER	12-C	50	400+800=1200 Sqm.	6000 Sqm.			
LAND OF RODENT :-								
33.	Hedgehog Lesser bandicoot, Greater bandicoot, Striped squirrel, Indian gerbil, Indian field mouse etc)	11,12-GH	100	40 X 6 = 240 Sqm.	750 Sqm.			
INDIAN DESERT :-								
34.	PORCUPINE	10-LJ	6	100+400=500 Sqm.	700 Sqm.	45 Sqm.		39.02 Sqm.
35.	CIVET	10-HJ	6	200+400=600 Sqm.	1000 Sqm.	45 Sqm.		39.02 Sqm.
36.	JUNGLE CAT	10,11-HJ	6	200+400=600 Sqm.	850 Sqm.	95 Sqm.		39.02 Sqm.
37.	DESERT FOX	10,11-GH	6	400+400=800 Sqm.	1200 Sqm.	45 Sqm.		46.47 Sqm.
38.	CHINKARA	10,11-G	18	1500+1600=3100 Sqm.	3500 Sqm.	90 Sqm.		67.17 Sqm.
WILD TRAIL OF GUJARAT :-								
39.	VULTURES	11-FG	6	300 Sqm.	2500 Sqm.			
40.	ROSY PELICAN	14	14	300 Sqm.	6800 Sqm.			
41.	FLAMINGO	10-F	14	300 Sqm.	2900 Sqm.			
42.	GREAT INDIAN BUSTARD	9,10-EF	9	300 Sqm.	2500 Sqm.			
43.	WATER FOWLS - mix species	9-F	80	300 Sqm.	1200 Sqm.			
44.	WILD ASS	9-FG	10	1500+1600=3100 Sqm.	3500 Sqm.	100 Sqm.		53.27 Sqm.
45.	BLUE BULL	9-G	10	1500+1600=3100 Sqm.	3500 Sqm.	100 Sqm.		53.27 Sqm.
46.	BLACK BUCK	9-H	18	1500+1600=3100 Sqm.	3500 Sqm.	90 Sqm.		67.17 Sqm.
47.	SMOOTH-CLAWED OTTER	9,10-HJ	6	400 Sqm.	550 Sqm.	50 Sqm.		46.47 Sqm.
48.	STRIPED HYENA	9-I	6	400+400=800 Sqm.	1000 Sqm.	50 Sqm.		46.47 Sqm.
49.	INDIAN WOLF	9-LJ	9	400+700=1100 Sqm.	1500 Sqm.	45 Sqm.		46.47 Sqm.
50.	LEOPARD	9-J	6	500+400=900 Sqm.	3600 Sqm.	95 Sqm.		75.73 Sqm.
51.	ASIATIC LION	9-K	6	1000+800=1800 Sqm.	4800 Sqm.	110 Sqm.		87.75 Sqm.
EXOTIC ISLAND :-								
52.	AFRICAN LION	8-JK	6	1000+800=1800 Sqm.	4800 Sqm.	110 Sqm.		87.75 Sqm.
53.	CHEETAH	8-J	7	500+500=1000 Sqm.	1500 Sqm.	95 Sqm.		75.73 Sqm.
54.	JAGUAR	8-I	6	1250+400=1650 Sqm.	1250 Sqm.	95 Sqm.		75.73 Sqm.
55.	JAGUARUNDI	8-HJ	6	500+400=900 Sqm.	1250 Sqm.	95 Sqm.		75.73 Sqm.
56.	PYGMY HIPPO	8-H	6	1000+800=1800 Sqm.	3600 Sqm.	100 Sqm.		133.65 Sqm.
57.	HIPPO	7-H	6	1000+800=1800 Sqm.	3600 Sqm.	100 Sqm.		133.65 Sqm.
58.	SPECTACLED CAIMAN	7-HJ	10	500+800=1300 Sqm.	1500 Sqm.			
59.	CAPYBARA	7-HJ	6		900 Sqm.	95 Sqm.		67.17 Sqm.
60.	MALAYAN TAPIR	7-I	9	500+700=1200 Sqm.	1500 Sqm.	90 Sqm.		67.17 Sqm.
61.	MEERKAT	7-LJ	18	50 Sqm.	150 Sqm.			
62.	MARMOSET	7-LJ	8	50 Sqm.	150 Sqm.			
63.	BINTURONG	7-J	5	400+300=700 Sqm.	850 Sqm.	45 Sqm.		39.02 Sqm.
64.	CHIMPANZEE	6,7-J	6	1000+800=1800 Sqm.	4000 Sqm.	50 Sqm.		73.55 Sqm.
65.	GORILLA	6-J	6	1000+800=1800 Sqm.	4000 Sqm.	50 Sqm.		73.55 Sqm.
66.	ORANGUTAN	5-JK	6	1000+800=1800 Sqm.	4000 Sqm.	50 Sqm.		73.55 Sqm.
67.	LEMURS (Ring Tailed)	4,5-J	12	500+1000=1500 Sqm.	1800 Sqm.	95 Sqm.		73.55 Sqm.
68.	GIRAFFE	3,4-KL	20	1500+3800=5300 Sqm.		100 Sqm.		206.25 Sqm.
69.	IMPALA	3,4-KL	6	1500+400=1900 Sqm.	2500 Sqm.			
70.	ZEBRA	3,4-KL	7	1500+1000=2500 Sqm.		100 Sqm.		53.27 Sqm.
71.	OSTRICH	3,4-KL	12	500+1000=1500 Sqm.		80 Sqm.		67.17 Sqm.
72.	KANGAROO	3-MN	6	500+800=1300 Sqm.	1800 Sqm.	95 Sqm.		73.55 Sqm.
73.	CROWNED CRANE	4-MN	6	300 Sqm.	3000 Sqm.			

ROADS - 67740 Sqm.

TOTAL GROUND COVERAGE ON ZOO SITE - 34144.74 Sqm.
 (4304.74 + 25550 + 4290 = 34144.74 Sqm.)

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TOTAL AREA ENGAGED ON SITE - 316544.74 Sqm.
 (199360 + 4304.74 + 4290 + 67740 + 15300 = 316544.74 Sqm.)

REMAINING AREA - GREEN COVER = 1012154.7 - 316544.74 = 695609.96 Sqm.

NOTES :-

- This drawing is based on survey drawing provided by the Client.
- Contour Interval 0.5 M.
- Grid size = 100.0m x 100.0m
- Copy right of this drawing rests with "GENESIS CONSULTANTS" New Delhi.
- This drawing is to be used for the purpose it is intended for.
- Detailed working drawings should take into account location of trees. Suitable changes in working drawings are to be made to avoid tree felling.

PROJECT :-
 GREENS ZOOLOGICAL, RESCUE & REHABILITATION KINGDOM, JAMNAGAR, GUJARAT

TITLE:- PROPOSED MASTER LAYOUT PLAN (ANNEXURE -)

DATE: 02.01.2019
 DEALY BY: AR. JITENDRA
 CHECKED BY:
 STATUS: FOR SUBMISSION

DRAWING NO. 01(A)
 ARCHITECTS:
 SCALE:- 1:3000

