

RISK ASSESSMENT_& EMERGENCY PREPAREDNESS PLAN

RISK ASSESSMENT:

Disaster and crisis management plan The zoo would prepare a detailed plan to deal with crisis in management, arising out of natural disasters like cyclone, flood, drought and earth quake or accidental happenings like fire, animal escapes, out break of diseases, etc. The crisis sometimes may also arise out of vandalism by unruly visitors, strike by the staff, stoppage of supply of water, power and animal feed due to circumstances beyond the control of the zoo management. To combat the emergency situation - diesel generators, portable saws, axes, showels, bill hooks, water tankers, diesel pumping sets, ropes, spot lights, emergency lamps, siren, hooter, loud speaker, tarpaulin, chains, nuts and bolts will always be readily available.

The phases of an emergency includes:

1. **Risk assessment**
2. **Mitigation**
3. **Preparedness**
4. **Response**
5. **Recovery**

Areas of Risk includes:

- **Naturally occurring events**
- **Technological events**
- **Human related events**
- **Events involving hazardous materials**

RISK = PROBABILITY X IMPACT

The risk assessment of the proposed health care campus reveals following critical areas:

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S.No.	Anticipated Risk	Probability Rating*	Anticipated Impact	Impact Rating#	Risk Rating
(i)	Animal rescued from wild	D	Threat for residing population and service staff if unadaptable to zoo environment; or unless not rescued back to wild	4	D4
(ii)	Escape of animals from enclosures	C	Threat to Human population	10	C10
(iii)	Monkey and dog menace	C	Noise pollution due to continuous barking disturbing serenity of area and affecting other animal and human habitat in the closed ecosystem	7	C7
(iv)	Arrangement of food in case of strike (non supply by contractor)	B	The meat shop has been proposed to supply food for animals	10	B10
(v)	Snake bite	B	Life threat due to toxic bite instant death in some cases	11	B11
(vi)	Visitors getting injured/ visitors falling inside enclosure	B	First aid injury to major accidents causing life threat	12	B12
(vii)	Fighting among animals	A	Nuisance ,ruckus and stress among captive animals	12	A12
(viii)	Epidemics	A	Life threat to human and animal population	12	A12
(ix)	Breakdown of power supply	C	Security breach by animals, poachers, ruckus among captive animals	5	C5
(x)	power line/ power cable passes over any animal enclosure.	C	Threat to animal or human life due to electric	4	C4

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			shock waves travelling through enclosures.		
(xi)	Failure of Biogas Plant/ Sewage Treatment Plant	B	Waste accumulation menace; no treatment of sewer; leaching and logging of sewage at STP area	10	B10
(xii)	Flood from Ramgarh Taal to the Zoo project land. As the pond is just adjoining the boundary of the project area.	D	Flooding of entire zoo area harming captive ex situ wildlife and resident population.	3	D3

Probability Rating Description *	Detail
Highly Likely (A)	nearly 100% probability in next year
Likely (B)	between 10 and 100% probability in next year, or at least one event in next 10 years
Possible (C)	between 1 and 10% probability in next year, or at least one event in next 100 years
Unlikely (D)	less than 1% probability in next 100 years
Impact Rating Description #	Detail
Catastrophic (11-12)	Facility cannot provide necessary services without extensive assistance from provincial or federal resources
Critical (8-10)	Facility can provide a normal level of service with assistance from outside the local community or region; or, facility can provide a minimal level of service with normal resources
Serious (5-7)	Facility can provide a normal level of service with assistance from within region or within local community; or, facility can provide a reduced level of

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	service with normal resources
Marginal (3-4)	Normal level of functioning or increased level of service required from within

Risk Management:

- (i) Train all concerned to deal with the situation through periodic mock drills. It would be ensured that all equipments are fully functional and effective at all times
- (ii) Network and coordinate with specialized agencies like fire fighting units of the State Government/ Union Territories and upgrade the equipments and rationalize the operations on the basis of their inputs.
- (iii) Potential crisis and develop the strategy to meet the same like bird flu, anthrax, retaliatory killing of wild animals etc

Other Safeguards :

- Due care would be taken to ensure that no power line/ power cable passes over any animal enclosure.
- Enclosure barrier would be erected/ constructed at a safe distance from such trees that can aid the animals to escape from the enclosure or damage the enclosure barrier.
- Where walls are used as enclosure barriers, due care would be taken to plaster the same with such proportion of cement mix that the plaster does not wither away leaving gaps that could be used by the animal as holds for escaping out of the enclosure.
- Live wire overhangs or chainlink would be used to prevent the animals from escaping out of the enclosure.
- Water pipelines and sanitary fittings would be fixed within the enclosure in such a manner that the same can not be used by the animal as aid to escape from the enclosures.
- Adequately deep foundation to be provided for enclosure barrier housing the burrowing species.
- Attention would be given to different barrier materials, fixtures, shutters etc. to see that they are safe and can not be broken or cause injuries to animals.