



BANGLADESH NATIONAL ZOO

Preparation of master Plan for Bangladesh National Zoo, Dhaka and Rangpur recreation garden and Zoo.

Expression of Interest

For

Preparation of master Plan for Bangladesh National Zoo, Dhaka and Rangpur recreation garden and Zoo.

January, 2019

Government of People's Republic of Bangladesh
 Project Director- Master Plan
 Preparation of Bangladesh National Zoo & Rangpur Zoo
 and Inevitable Infrastructure Repairing & Development Project
 and
 Curator, Bangladesh National Zoo, Mirpur, Dhaka.

Memo No. 33.01.0000.106.01.035.17-168

Date: 24-01-2019

Request for Expression of Interest (EOI)

1	Ministry/Division	Ministry of Fisheries and Livestock
2	Agency	Department of Livestock Services
3	Procuring Entity Name	Dr. S.M. Nazrul Islam, Project Director- Master Plan Preparation of Bangladesh National Zoo & Rangpur Zoo and Inevitable Infrastructure Repairing & Development Project and Curator, Bangladesh National Zoo, Mirpur, Dhaka.
4	Procuring Entity District	Dhaka
5	Invitation for	Hiring of consulting firm for preparation of Master Plan for Modernization of Bangladesh National Zoo, Dhaka and Rangpur Zoo.
6	Invitation Ref No.	33.01.0000.106.01.035.17-168
7	Date	Date: 24/01/2019
KEY INFORMATION		
8	Procurement Method	OTM (National/International)/EOI- on QCBS
FUNDING INFORMATION		
9	Source of Funds	Development Budget (GOB)
10	Development Partners (if applicable)	N/A
PARTICULAR INFORMATION		
11	Project/Program Code	224253600
12	Project/Program Name	Preparation of Master Plan for Modernization of Bangladesh National Zoo, Dhaka and Rangpur Zoo.
13	EOI Closing Date, Time & Place	Date: 24/02/2019 Time: Up to Office hour. Place: Project Director and Curator's Office, Bangladesh National Zoo, Mirpur, Dhaka.
INFORMATION FOR APPLICANT		
14	Brief of the Project/Assignment	The services for "Preparation of master plan for modernization of Bangladesh National Zoo and Rangpur Zoo" include different Survey, investigation, study and preparation of detailed master plan of Both Dhaka and Rangpur Zoo, description of detail structures of different infrastructures including animal enclosures, to guide long term growth and development, focus on planning issues of the modern world class zoo, conservation of flora and fauna, modern zoo structures arrangement, beautification and formulation of policies for functioning of a modern zoo. See the details in the Annexure-1 and Annexure-2.
15	Eligibility of consulting farm and the members of the farm for Master Plan Preparation	The consulting farm must have minimum experiences for preparation of master plan for minimum 5 zoos/safari park at international level and individual consultant should be qualified as mentioned in annexure-2 and should have minimum 15 years working experience and Practical

		experience for preparation of minimum 3 Nos. Master plan for recognized Zoo (Details Anexure-1 & 2). Technical, geographical and management competencies must be reflected in the proposal.		
16	Name of Official Inviting Tender	Dr. S.M. Nazrul Islam.		
17	Designation of Official Inviting Tender	Project Director and Curator.		
18	Address of Official Inviting Tender	Bangladesh National Zoo, Mirpur, Dhaka. Bangladesh.		
19	Contact details of Official Inviting Tender	Tel. +88-02-58053030	Fax: +8802-8035035	E-mail: 1) smnazrul.curator@gmail.com . 2) drnazrul48@yahoo.com .
20	The procuring entity reserves the right to accept or reject all or any EOI without assigning any reason what so ever.			
21	Detail TOR can be seen in wave site: 1) www.dls.gov.bd 2) www.mofl.gov.bd 3) www.dhakazoo.org/www.bnzoo.org 4) www.cptu.gov.bd			

(Dr. S. M. Nazrul Islam)
Project Director- Master Plan
Preparation of Bangladesh National Zoo & Rangpur Zoo
and Inevitable Infrastructure Repairing & Development Project
and
Curator, Bangladesh National Zoo, Mirpur, Dhaka.

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Letter of Invitation

To:

From: PROJECT DIRECTOR AND CURATOR
BANGLADESH NATIONAL ZOO
MIRPUR, DHAKA-1216
BANGLADESH

Date of Publication of Notice 24th January, 2019

Subject: Invitation for Expressions of Interest for Consulting Services: Preparation of master Plan for Bangladesh National Zoo, Dhaka and Rangpur recreation garden / Zoo.

1. Bangladesh National Zoo, Dhaka intends to prepare master plan for the development of Bangladesh National Zoo, Dhaka and Rangpur recreation garden / Zoo. In this regards, Bangladesh Government wants to hire the mentioned consulting service. Hence the authority proceeds to procure consultancy service from eligible consultants.
2. The Expression of Interest (EOI) is invited from interested, eligible and experienced international firm, if needed in association (Joint Venture/Sub Consultant) with national consultants. The total number of firms including the lead firm should not exceed a maximum of three. Same firm is not allowed to enter into more than one joint venture.
3. Consultant must have completed at least three master plan and detailed design of reputed zoos . All the copies of certificates shall be notarized by notary office.
4. The EOI document will be freely available during office hours from the office of the Bangladesh National Zoo or DLS HQ at farm gate, Dhaka or can be downloaded from the website 1. www.mofl.gov.bd 2. www.dls.gov.bd 3. www.dhakazoo.org/www.bnzoo.org 4. www.cptu.gov.bd
5. Two sets of duly completed hard copy EOI document should be submitted in sealed envelope along with its soft copy to the following address clearly mentioning the name of the project and the consultancy service on or before 17:00 hrs. (Bangladesh Standard Time) within 31st day (24th February, 2019) of first date of publication of this notice.

Dr. S.M. Nazrul Islam

Project Director- Master Plan

Preparation of Bangladesh National Zoo & Rangpur Zoo and Inevitable Infrastructure Repairing & Development Project and Curator, Bangladesh National Zoo, Mirpur, Dhaka.

Tel: +8802-58053030, +8802-8035035

Fax: +8802-8035035

[Email:1\) smnazrul.curator@gmail.com;](mailto:smnazrul.curator@gmail.com)

2) drnazrul48@yahoo.com

6. If the deadline of EOI submission falls on a government holiday, it will be extended automatically to the next working day at the same time. The EOI documents received after the due date and time shall not be accepted.
7. The completed EOI documents received by due date and within specified time will be opened at 12.30 hrs (BST) on 33rd day (26 February,2019) of first date of publication of this notice in the presence of the applicants or their authorized representative who choose to attend. Absence of the applicant or their authorized representative, however, shall not prevent the opening of the EOI documents.
8. The EOI documents submitted by the applicants shall be evaluated on the basis of the

evaluation criteria approved by DG, DLS for short-listing purpose, the combined

9. Experience of the consultants with its association will be evaluated. The shortlisted consultants will be notified in due course of time for the submission of Technical and financial proposals. **Financial proposal of only shortlisted consultants will be opened.** The Quality and Cost Based Selection (QCBS) procedure will be used for the selection of the consultant.
10. Bangladesh National Zoo authority reserves the right to accept or reject any or all EOI proposals, or to cancel the entire proceedings without giving any reasons whatsoever.
11. Further information can be obtained from above address of Curator, BNZ. during office hours.

PROJECT DIRECTOR AND CURATOR
BANGLADESH NATIONAL ZOO
MIRPUR, DHAKA-1216, BANGLADESH.

Government of People's Republic of Bangladesh
Project Director- Master Plan
Preparation of Bangladesh National Zoo & Rangpur Zoo
and Inevitable Infrastructure Repairing & Development Project
and
Curator, Bangladesh National Zoo, Mirpur, Dhaka.
Department of Livestock Services,
Bangladesh, Dhaka

Expression of Interest
For
Preparation of master Plan for Bangladesh National Zoo,
Dhaka and Rangpur recreation garden / Zoo.

EOI TEMPLATE

Project Name	
Project Country	

I. Consulting Firm Information

Consultant Name:	Country of Incorporation:
Acronym:	Registration, Number:
EOI Submission Authorized by:	Position:

International/National (Joint Venture or Sub-consultant)

Registration, Number	Consultant	Acronym	Country of Incorporation	Association (JV or Sub-consultant)	EOI Authorization By	Position

Present the rationale for and benefits of working in association (JV or Sub-consultant) with others rather than undertaking the assignment independently (as appropriate). Describe the proposed management and coordination approach of the association and the role of each firm.

--

I confirm that:

- Documentation regarding our corporate structure including beneficial ownership has been attached.
- Documentation regarding our Board of Directors has been attached.
- A written agreement to associate for the purpose of this Expression of Interest has been signed between the consortium partners and has been attached.

II. Assignment Specific Qualifications and Experience

Your EOI shall demonstrate technical competence and geographical experience based on project references provided herein. Please provide relevant project information in Section E below.

A. Technical Competence

Cross-referencing from your profile projects in Section E. Project References, highlight the technical qualifications of your entity/consortium in undertaking similar assignments. Provide details of past experiences working with similar project authorities.

B. Geographical Experience

Cross-referencing from your profile projects in Section E. Project References, present experiences in similar geographic areas.

C. Management Competence (Please answer each question in one paragraph of 3-5 sentences)

1. Describe standard policies, procedures, and practices that your entity has to assure quality interaction with clients and outputs. Please state if your company is ISO certified.

2. How will your firm/consortium handle complaints concerning the performance of experts or quality of the reports submitted for this assignment? What internal controls are in place to address and resolve complaints?

3. How will you ensure the quality of your firm's/consortium's performance over the life of this assignment?

4. Describe standard policies, procedures and practices that your firm has put in place to avoid changes/replacements of personnel and to ensure the continuity of professional services once contracted.

5. Describe what social protection practices you have in place to safeguard the well-being of your proposed experts? Specifically describe arrangements you have in place for medical, accident, and life insurance coverage during the assignment.

D. Other Information (maximum of 500 words)

E. Project References

Please select most relevant projects to demonstrate the firm's technical qualifications and geographical experience (maximum 10 projects).

SN	Project	Period	Client	Country	Firm
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Indicate up to 10 reference projects from the past 10 years (April 2006- April 2018) that the consultant feels are relevant.

Project Sheets

• Project Name			
• Name of Client			
• Country		Project location within Country	
• Participation	<input type="checkbox"/>	As lead firm	
	<input type="checkbox"/>	As associate firm	
• Value of Services		(US\$)	
• Source of Financing			
• Consultancy Services			
(i) No. of staff			
(ii) No. of person months			
• Length of Consultancy Assignment			
• Start Date		(dd/mm/yyyy)	
• Completion Date		(dd/mm/yyyy)	
• Name of Associate Firms (if any)			
• No. of Person-Months of Professional Staff Provided by Associated Firm(s)			
• Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed			

• Detailed Narrative Description of the Project
• Detailed Description of the Actual Services Provided by your Firm

(Please insert more tables as necessary)

III. Comments on Terms of Reference

--

IV. Key Considerations in approaching this assignment (no more than 9,000

V. characters summarizing approach and methodology)

--

VI. International Experts

Please provide list of international experts proposed for the assignment. Also attach brief CV of proposed personnel.

SN	Name	Email	Position/Title	Nationality
1				
2				
3				
4				

VII. EOI Attachments

SN	Description
1	Certificate of Incorporation of the lead member
2	Certificate of Incorporation of the JV member (for each member)
3	Certificate of Incorporation of the Sub-Consultant (for each sub-consultant)
4	Letter of Association
5	Firms Registration, VAT, Tax Clearance (in case of national firms)

(Please insert more rows as necessary)

VIII. Eligibility Declaration

We, the undersigned, certify to the best of our knowledge and belief:

- We have read the advertisement, including the terms of reference (TOR), for this assignment.
- Neither the consulting firm nor its JV member or sub-consultant or any of its experts prepared the TOR for this activity.
- We confirm that the project references submitted as part of this EOI accurately reflect the experience of the specified firm/consortium.

We further confirm that, if any of our experts is engaged to prepare the TOR for any ensuing assignment resulting from our work product under this assignment, our firm, JV member or sub-consultant, and the expert(s) will be disqualified from short-listing and participation in the assignment.

- All consulting entities proposed in this EOI are eligible to participate in the EOI.
- The lead entity and JV member or sub-consultant are NOT currently sanctioned by GOB and other Governmental and Non-Governmental agencies. Neither the consulting firm nor the JV member or sub-consultant has ever been convicted of an integrity-related offense or crime related to theft, corruption, fraud, collusion or coercion.
- We understand that it is our obligation to notify BNZ should any member of the consortium become ineligible to work with GOB and other Governmental and Non-Governmental agencies or be convicted of an integrity-related offense or crime as described above.

- JV member or sub-consultant named in this EOI confirmed their interest in this activity in writing.
- JV member or sub-consultant authorized us in writing to represent them in expressing interest in this activity.
- None of the proposed consortiums are subsidiaries of and/or dependent on BNZoo authority/DLS or individuals related to them.
- We understand that any misrepresentations that knowingly or recklessly mislead, or attempt to mislead may lead to the automatic rejection of the proposal or cancellation of the contract, if awarded.

Signature with
Seal

ANNEXURE-3

Scope of works and TOR for National or International consultant

Subject: Preparation of master Plan for Bangladesh National Zoo, Dhaka and Rangpur recreation garden and Zoo.

Section 6. Terms of Reference

Scope of works and TOR for hiring National or International consultant to prepare the World Class Master Plan for Bangladesh National Zoo and Rangpur Recreation Garden and Zoo:

1. Introduction and background of the project:

Bangladesh National Zoo, Dhaka is the largest zoological garden in Bangladesh. The total existing area of Bangladesh National Zoo is 186.65 acres. There are two lakes, one is on the south side which is 18 acres and another one is on northern side having area of 14 acres. (The sketch map attached). At present 2896 animals, birds and aquarium fishes are exhibiting in 237 cells within 137 enclosures in the zoo. Around 4.0 to 5.0 million visitors are visiting the zoo every year from both home and abroad having keen interest and endeavor to this National Zoo. It is connected with Dhaka City with a very good road and well communicated by high way, coming from outside of Dhaka (Embankment road). Within the zoo there is 3.5 kms circular road, 3.75 kms brick soling roads, public toilets, visitors' sheds, kiosks, some sitting and resting areas. 77% area is with afforestation and 23% area is for infrastructures. It was established in 1961, but no significant development program has yet been taken for its modernization. As a result, old type of infrastructure with inadequate space and traditional management facilities still exist. On the other hand, Rangpur Recreation Garden and Zoo is the most important recreation center for the northern part of our country. After establishment of this zoo (during 1991), no development works have been done at this zoo. Aim and objectives of zoo are education, research, conservation and recreation. Also captive breeding and importantly conservation of nearly extinct or extinct animals and thereby conservation of biodiversity, balancing of echo friendly environmental system. Due to insufficient landscape elements, lack of infrastructural facilities, repairing & maintenance of cages, management is in a great threat in the zoo. Furthermore, facilities for education, research, recreation, breeding and conservation are not up to the mark in the present Zoo.

In addition, both of these zoos have no modern game tools & equipment. It needs infrastructural development to attract the visitors in the Children Park area. As Bangladesh National Zoo has 2 (two) water bodies. we are proposing Lake Safari; Boating can be introduced and on the bank of Lake, Plaza can be constructed to enjoy the natural beauty of the lake. The visitors of all level could be attracted by extending the aforesaid facilities.

Considering all of these points, preparation of a master plan is highly essential for modernization of Bangladesh National Zoo and Rangpur Recreation Garden and Zoo with detail design and costing for upgrading as a world class standard. It will ensure improved facilities of landscape element, captive environment, infrastructural facilities, game facilities and many more. Moreover, this project will also strengthen to ensure animal welfare for wild animals and birds in captivity.

2. Brief outline, objectives and scope of the assignment:

- a) Base line survey, Study of Sectoral strategies, future plans, digital, geographical and various survey, workshop, seminar etc.
- b) Translation of output of upper stages of planning in more specific terms
- c) Finally, description of modern structure, facilities, arrangement, beautification and formulation of policies for functioning of a modern zoo.

Out put

- Preparation of detail World Class Master Plan of Bangladesh national zoo and Rangpur recreation garden and zoo
- Description of detail designs of different infrastructures and facilities
- Technical drawing, architectural and structural design
- Design brief and approximate construction cost
- DPP preparation of the project
- To guide a long-term development.
- Focus on planning issues of the modern zoo.
- Conservation plan of flora and fauna

3.Scope of services:

A comprehensive master plan includes:

- Education, research, conservation and recreation programs
- Staffing and operational guidelines
- Visitors attraction and development of public relations
- Animal collections, housing and management including food and nutrition.

Ultimately to develop a World Class Master Plan the Consultant will address on-

- To modernize the Bangladesh National zoo and Rangpur recreation garden and Zoo to international standard
- To make animal exhibits and shows more attractive to the visitors
- To collect rare species of wild animals
- To increase more facilities of research for saving the nearly extinct animals
- To foster the zoo education, breeding, conservation and recreation
- To create modern Zoo museum and aquarium
- To exchange the ideas and technologies acquired from the foreign zoos and aquarium and
- **Any other necessary suggestion/s.**

Covering almost all the above plans and output it is expected that the hired team will prepare site analysis report, concept paper, approximate placement of habitats, animals sheds and their exhibits, newly introducing animals, games, events, visitor's amenities, service facilities, admin office, Vet. Hospitals, quarantine, animal holding area, workshops, food commissary, stores, zoo museum, aquarium, plants gardens etc.

Animal's enclosure's shape, size and direction and for good exhibits and exposures suggestions will be interpreted in there. A conceptual world class master plan finally.

The Consultant will prepare a Design Brief based on visits, technical standards (local and international) and site context and socio- environmental needs and on consultation with the stake holders and experts. The Master Plan will be based on the prepared Design Brief and the Conceptual theme proposed by the Consultant.

The Final Master Plan will indicate showing spatial arrangements or locations, shape/ sizes, design, detailed structure and description of:

- 1) World class Digital gate with digital display,
- 2) Structuring second gate.
- 3) Beautiful, spacious and well-designed multistoried vehicle parking area,
- 4) Enclosures or captive environments (seminatural)
- 5) Buffer zone on the inner side of the Boundary wall throughout the areas.
- 6) Trails and walk ways
- 7) Public Plaza
- 8) Public Amenities {ticket counters, rain shelters, toilets, eateries, souvenir shops, play area, women's (breast feeding center) place etc}.
- 9) Landscaped areas
- 10) Control and security Infrastructures
- 11) Landing station of water crafts
- 12) Track layout of electric toy trains/ cable cars
- 13) Water Front structures
- 14) Retaining walls and riparian landscape
- 15) Surface drainage
- 16) Waste management and recycling plant
- 17) Utility infrastructures
- 16) Large way-finding signage points
- 17) Electric Street lighting points
- 18) CCTV and web enabled service points
- 19) Security, perimeter lighting points and watch towers
- 20) Public addresses/alarm points/information centre
- 21) Land filling and/excavation area as required
- 22) Emergency/service vehicle routing
- 23) Medical center
- 24) Demolition plan
- 25) Phasing suggestion
- 26) Sections and elevation where required
- 27) Other buildings, holdings and workshop.
- 28) Night safari
- 29) Lake Safari, boating in lakes, walkway around the lakes fencing by SS pipe, seating arrangement with other facilities.
- 30) Decoration of Islands in Lakes
- 31) Luxury food plaza
- 32) Children's park with games and rides at second entry gate
- 33) Animal's show Specially- Gorilla show, Dolphin show, Elephant and birds show
- 34) Rope way, Tree top trails
- 35) Soundless tram cars
- 36) Renovation and extension of office buildings and staff quarters Engineering workshop,
- 37) Zoo education and research facilities,
- 38) Fountain structuring in parking area and at more point inside the zoo.
- 39) Garden redesigning and decoration with tree plantation
- 40) Modern Zoo Veterinary Hospital
- 41) Modern Animal Nutrition Building
- 42) Modern Carcass disposal facilities
- 42) **Any new and attractive event introducing.**

4. Transfer of knowledge (training)

- 1) Two visits for zoo officials to some standard zoos or safari parks, one in South Africa/ Australia, one in London / Singapore (total 20 officials in two groups) working at both zoos.

2) Local Training for Zoo officials and staffs for two weeks. (Zoo management, Animal management, Exhibition, Conservation, Health management, Feeding, Captive breeding, etc).

5.Report Finalization and submission:

Consultant will Prepare segmental report and arrange workshop with the stakeholders to share and enrich the contents, then submit the report. With the repetition of the procedure consultant will prepare phase to phase report and after covering all phases will prepare a Preliminary Master Plan and do a multimedia presentation of the Plan to the stakeholder for possible feedback and approval.

Executive agency will arrange a workshop inviting all the stake holders. Then a national seminar will be organized inviting policy makers of the Government. The report and output of the workshop will be placed to the seminar and the report will be finalized thereby.

List of reports and deliverables:

- Inception report,
- Interim report,
- Structural design,
- Architectural design,
- Lay out plan,
- Draft report of Master Plan including detailed design and drawing,
- Final World class Zoo Master Plan,
- Soft copy of the master Plan,
- Hard copies of the prepared Master Plan (16 copies),
- Prepared Development Project Proposal (DPP) of the modernization project (one soft copy & 6 hard copy),
- Any other relevant documents necessary for the development project which will be identified during negotiation meeting.

6. Data facilities and local services and institutional arrangements to be provided by the client:

The Client will provide the following services, facilities and property: -

Meeting or conference room as available in the BN Zoo and or in DLS office. Use of office room during any discussion, small meeting and ideas, information exchange as and when needed, administrative support, and available relevant data.



(Dr. S. M. Nazrul Islam)

Project Director- Master Plan

Preparation of Bangladesh National Zoo & Rangpur Zoo
and Inevitable Infrastructure Repairing & Development Project
and

Curator, Bangladesh National Zoo, Mirpur, Dhaka.

ANNEXURE-4

MASTER PLAN PREPARATION

Expert needed for: -

- a. **MASTER PLANNING**
- b. **DESIGN DEVELOPMENT & DETAIL DESIGN**
- c. **CONSTRUCTION DOCUMENTATION & OBSERVATION**
- d. **COMMISSIONING, TRAINING & ANIMAL PRESENTATIONS**

The Consultancy team will consist of following

Sl. No.	Position/Specialist	Minimum Qualification Requirements	Minimum Experience Requirements	Nos.
1	Team Leader, Overall Master Planning and Concept Development/Zoo Specialist	DVM./ A.H./ M.S. or M.Sc.in Zoology(Wild life)/ Wildlife Biology/ Zoo Planning	Should have minimum 15 years working experiences having practical experience for preparation of minimum 3nos Master plan for recognized Zoo.	1
2	Zoo Veterinarian/Zoo specialist and Zoo management	DVM/B.Sc. in Vet. Sc & A.H.		1
3	Zoo Architects and Eco. Design	B.Sc.in Architecture.		1
4	Structural Engineer	B.E./ B.Sc.in Civil Eng./Diploma in Zoo structure Eng.	Must have working experiences for 10 years	1
5	Zoo Horticulturist and Landscape Architecture	B.Sc. Ag./M.Sc. Botany/ Landscape Architecture	Should have minimum 10 years working experiences having practical experience for preparation of minimum 3nos Master plan for recognized Zoo.	1
6	Environment Engineer/Zoo design and sustainability	B.E./B.Sc. Eng./B.Sc.in Environ Sc./B. Arch.		1
7	Animal Presentation Specialist	B.Sc. in Zoology/20 years of extensive animal training experience in reputed zoo.		1
8	Civil Engineer	B.Sc.in Civil Eng.	Must have working experiences for 10 years	1
9	Electrical and Electronic Engineer	B.Sc.in EEE	Must have working experiences for 10 years	1
10	Mechanical Engineer	B.Sc.in ME	Must have working experiences for 10 years	1
11	Project Management Specialist	B.Sc. in Eng. Or 25 years of project management experiences	20 years of experiences project management.	1

1. THE DESIGN TEAM

The Team will have to have expertise on:

- a. Lateral Thinker & Zoo Conceptualizer
- b. Landscape Ecology & Landscape Architecture
- c. Zoo Planning & Architecture
- d. Structural design of necessary infrastructures
- e. Zoological Exhibit Design & Architecture
- f. Zoological & Botanical Landscape Architecture
- g. Environmental Engineering / Architectural, & IT Firm

2. THERE SHOULD BE A SUSTAINABLE DEVELOPMENT TEAM

Having expertise on

- a. Environmental Planning
- b. Wildlife & Zoo Management
- c. Forestry & Zoo Management
- d. Eco-tourism
- e. Botany, Horticulture & Arboriculture
- f. Integrated Conservation
- g. Renewable Energy
- h. Sustainable Development

3. SPECIAL EFFECTS EXPERTISE

Expertise on:

- a. Lighting Design
- b. Soundscape
- c. Creativity
- d. Audio Video Production
- e. Creative Rock and Waterscapes and Themed Finishes
- f. Cultural Theming & Exhibit Development
- g. High-Tech & Theme Park Operations
- h. Interpretation & Museums
- i. Theatre & Show Presentation
- j. Promotions & Events.

4. ONE ZOOLOGY TEAM

That will cover all aspects of zoo biology.

The Zoology team will have professionals in zoo management, wildlife exhibit conceptualization, Zoo animal management, collection, planning and marine biology.

They might have access in:

- a. Zoology & Conservation
- b. Invertebrates & Exhibit Conceptualization
- c. Animal Presentation
- d. Free Flight Bird Presentations
- e. Wildlife & Zoo Management
- f. Animal Management & Collection Planning
- g. Penguins & aquatic animals and birds
- h. Animals From Extreme Climates
- i. Mammal Exhibition & Husbandry
- j. Marine Biology
- k. Aquarium Management & Design
- l. Wildlife Veterinarian & Animal Re-introduction
- m. Naturalist
- n. Conservation & Research
- o. Creative Direction & Events Management
- p. Brand Development
- q. Education & Training

Having capacity for

- Master planning and development
- Environment friendly building design
- Facade design

- Interior design
- Visualization – 3D/9D presentation
- Urban planning and design
- Parks and recreation
- Green roofs
- Health care and therapeutic design
- Health care for staffs and visitors
- Transportation
- Water and storm water management

5. Design Consultancy

- Efficient and sustainable construction processes
- National park tourism and management building consultancy
- Infrastructure (roads, bridges, water management) consultancy

Energy Solutions and Efficiency

- Material and life cycle assessment
- Waste minimization
- BREEAM and LEED consulting

Energy Solutions and Efficiency

- Energy efficiency and auditing in buildings
- Material flow analysis consumption and waste minimization in Industry
- Electrical and Automation system design
- Power generation and efficiency
- Renewable energy solutions feasibility analysis and design
- Design of bio gas generation plants
- **And anything the consultant team thinks necessary.**

Joint venture will be allowed if and where necessary and that should be mentioned in details in the proposal.



(Dr. S. M. Nazrul Islam)

Project Director- Master Plan

Preparation of Bangladesh National Zoo & Rangpur Zoo
and Inevitable Infrastructure Repairing & Development Project
and

Curator, Bangladesh National Zoo, Mirpur, Dhaka.
Bangladesh.