



DELHI DEVELOPMENT AUTHORITY

Design, Development and Maintenance

of

Bamboo Structures

at

Baansera

(Part of Kalindi Aviral, Yamuna Project at Sarai Kale Khan)

Project: *Expression of interest on design, development and maintenance of Bamboo structures at Baansera.*

Subject: *Reply of the queries raised by the applicant during the summit meet on 09.12.2022 and received through emails thereafter.*

The expression of interest for the above work was invited by DDA on 06.12.2022 and the same was uploaded on DDA website.

An applicant summit was also conducted online on 09.12.2022 for replying the queries/doubts raised by the applicants.

Following agencies participated in the summit meet :

1. JANS Bamboo Product Pvt Ltd.
2. STUDIOARO
3. GEMSBANSO
4. Mrs Charu Kodre
5. Karan
6. Nimisha
7. Bamboo pecker
8. Greenbam Infratech

Following DDA officers were present:

1. Mr Ashwini Kumar CE/Horticulture/DDA
2. Mr. T.L Tyagi SE/HCC-3/DDA
3. Mrs Neelima Soni Director/Landscape
4. Mr T R Sharma EE/HCD-9/DDA
5. Mr M Uzair AD/Landscape

Following queries/clarification were raised during meet

Sl No	Queries/points raised by participant	Clarification/reply
1.	Is it a prerequisite to participate in EOI for Eligible/participating in tendering process	Generally not
2.	Para 2.12 “All the documents Submitted by the applicants shall be the sole property of DDA and DDA shall reserve the right to completely use, amend/change the concept/design/ drawings in any of its project(s).” it could be reconsidered to exclude this point in document as ethical point of view.	Final design will be done by the competitive bidder. However, Design and information provided by agencies participated in the EOI will be screened by the competent panel and some component of some design will be picked and coagulated and put together in the tender.
3.	Para 5.3: Turnover and Networth of the Applicant in last Three Financial Year. Any relaxation for new companies	The financial eligibility may be relaxed based on the credential received from the applicant
4.	Qualification criteria	Depending upon the proposal received, decision shall be taken
5.	Can we tie up with other company	
6.	Joint venture allowed or not	
7.	Timeline process	5 months for execution of work
8.	After EOI how long will the tendering process will take	31 st july is the target date of completion. Tendering will be done immediately after finalization of EOI.
9.	Whether it is a Single bid tender	DDA prefer to go for Single tender
10.	Most of the structure foundation comprises of concrete , are concrete	Other option will be explored instead of concrete, However if

	foundation are permitted in flood plain area or not? As development should be under the NGT guideline	last option is concrete then exemption from NGT will be taken
11.	Considering the life of structure and rainfall and robust of foundation , it is better to go for Concrete foundation or any alternative?	Alternative may be explored and structural safety shall be considered as the amenities will be built on filledup soil. Further factor of uplifting and overturning are more influential as structure in not that heavy.
12.	Whether individual components will tender individually or will there be single tender	DDA prefer to go for single tender comprising all the works
13.	Soil data of the Banssера may be provided	It is a filled-up area mixed with C&D waste. The soil investigation shall be conducted by the construction agency itself
14.	In the Bamboo Design many possibilities exist , each design have cost and time associated with it and they are different on various design , What would be the basis and how would be able to put a judgement. Some boundaries and fulcrum to be put to compare the design including structural aspect and cost aspect.	Design is the main criteria being a project of National importance.
15.	Architectural design point of view what are basis and criteria DDA will be looking and Structural design point of View what are the basis DDA will be looking	Design and built should be based on aesthetically good and structurally sound. Cost can be flexible. It will be a sort of turn key project
16.	Design should be a separate tender and execution shall be a separate tender for better execution	DDA will consider the suggestion

17.	Same agency can apply for Design and Execution?	Yes and preferable														
18.	Is Three years criteria can be relaxed as last two years were effected with COVID	Yes														
19.	Turn key project like both design and execution are with one agency , in order to make it a sound project	Yes														
20	para 2.4 page 5: word ‘consortium’ is used , can you describe it and whether it is allowed to bid	Normally not, however can be considered depending on the outcome of the EOI														
21	Whether consortium is mandatory for bid in DDA	No														
22	Para 1.2.3 page 4: Entrance gate , shelter: footprint and dimensions are to be provided	Tentative sizes are provided in EOI document at Para 1.2.3. Dimensions are subjected to chance to provide flexibility in the design.														
23	details of Sitting capacity shall be provided	<table border="1"> <thead> <tr> <th><u>AREAS</u></th> <th><u>CAPACITY</u></th> </tr> </thead> <tbody> <tr> <td>1. Convention Centre</td> <td>25-30 persons</td> </tr> <tr> <td>2. Café area</td> <td>25-30 persons</td> </tr> <tr> <td>3. Interpretation Centre</td> <td>15-20 persons</td> </tr> <tr> <td>4. Shelters</td> <td>6-8 persons</td> </tr> <tr> <td>5. Watchtower</td> <td>6-8 persons</td> </tr> <tr> <td>6. Guard house</td> <td>01 person</td> </tr> </tbody> </table>	<u>AREAS</u>	<u>CAPACITY</u>	1. Convention Centre	25-30 persons	2. Café area	25-30 persons	3. Interpretation Centre	15-20 persons	4. Shelters	6-8 persons	5. Watchtower	6-8 persons	6. Guard house	01 person
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24	Pathways/experiential walk details and space shall be provided	Proposal and relevant sections are provided through email														
25	Revised plan/rendered plan may be shared	Proposal along with relevant site photos, drone shots are provided through email														
26	Railing component for pathways may be provided	Railing design and detailing to be suggested by applicant.														
27	Auto CAD comprising contour of the Baansera park may be provided.	Total Station Survey with levels and contours are through email.														
28	With reference to Page 8 Award of prize money, what level of design	Design should be fit to formulate tender**.														

	level DDA is looking for, whether it is a conceptual drawing	Design may be conceptual sketch or computer added render, should convey complete ideation & fulfill all the requirements and correspond to the site. There is no capping or minimum requirement on the numbers of sheets/ plans/ sections to be submitted. The basic deliverables are listed at Para no.4.								
29	Whether this award prize is financial compensation?	It is only a token of gratitude for efforts/time spent on making the design/drawing.								
30	Is Bill of quantities comprises only bamboo or shall also include civil work like tiles, flooring, glass etc.	Yes , all items shall be considered to complete the project								
31	Whether convention center and interpretation center and cafe shall be opened or closed.	<table border="1"> <thead> <tr> <th>AREAS</th> <th>Suggestion</th> </tr> </thead> <tbody> <tr> <td>1. Convention Centre</td> <td>Closed, visually connected to the surroundings and borrowed landscape, Climatically controlled structure with glass walls.</td> </tr> <tr> <td>2. Café area</td> <td>Partially open and closed. Provision for fire rated design is mandatory.</td> </tr> <tr> <td>3. Interpretation Centre</td> <td>Closed.</td> </tr> </tbody> </table>	AREAS	Suggestion	1. Convention Centre	Closed, visually connected to the surroundings and borrowed landscape, Climatically controlled structure with glass walls.	2. Café area	Partially open and closed. Provision for fire rated design is mandatory.	3. Interpretation Centre	Closed.
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32	Component of weight-age/marks allotted to design and technology	As design is main criteria for selection, so more weight age given								
33	Fulcrum of the project may be provided I.e importance of design /cost in project	It is a National project. If design is approved, cost consideration is second criteria								
34	Page 11: what kind of suggestions DDA intend to/expecting from participants related to Annexure	As already mentioned in the document: Concept plans, architectural								

	aspects	drawings, details, quotations documents, and other relevant documents.
35	Is there any limitation as DDA asked three quotation minimum.	It is not mandatory
36	Scope of getting quotation does not arises as many agency are executing turn key projects.	No quotations are required, if turn key project.
37	Execution time for the project?	Five months
38	As design and execution is connected, how DDA will compare the cost and design between two proposals.	Minimum specification will be fixed and comparison will be done in the interest of quality as project is of National importance.
39	Maximum execution time available to agency	Execution is 5 month

Queries/ information sought via e-mail

Sl No	Queries/points raised by participant	Reply
1.	Soil data (soil characteristics from different part of site) for purpose of visualizing foundation designs for the bamboo structure	It is a filled up area mixed with C&D waste. The soil investigation shall be conducted by the construction agency itself
2.	Auto-Cad drawing of the site along with contours marked with various permanent elements, trees with their GBH marked clearly and species of the trees.	Total Station Survey of the area shall be submitted through email.
3.	Details of Main gate, whether the gate is used for lock & key and controlled entry	A controlled mechanism with the help of design and provision of Security.
4.	Height of Bamboo structures: if any restrictions on height of the structures exist in the area since it is in flood plain	There is no height restriction for the structures however sizes are suggested in the document at Para 1.2.3. Structural feasibility with respect to site conditions/ soil condition/ wind load is to be considered.
5.	Whether Data (Rain fall Data, wind speed, Temperature date) for last five years of the site location, including max, min and average on per day basis and monthly average. If any data is to be specifically considered for design inputs, kindly send it	May be obtained from Meteorological dept.
6.	How will the structural Elements will be ratified/approved for its build-ability, since it was explained during Webinar that DDA has	Structural vetting shall be got done from Government institution like IIT, NIT etc.

	limited expertise in Bamboo Structures.	
7.	Whether MEP (Mechanical, Electrical, and plumbing) plan is to be included in designing of the structures. Based on the EOI, it appears that this is not to be included in the concept design and detailing. However, if yes, then kindly provide existing/proposed waste water/sewage and solid waste management disposal layout/plan.	MEP shall be included in plan, however for solid waste management bio toilet shall be planned.
8.	The assessment system mentioned by you in the EOI(page no 8) mention 50 marks for design & specifications and 50 marks for other aspects. Whether there is a cost/budget consideration that needs to be accounted for since the bamboo structures cost can vary to a large extent based on design. Hence how will the comparison between the design be done?	Design is the main criteria as the project is of National importance and Cost is of second criteria
9.	What are the parameters for designing this project A) Apart from bamboo what are the other materials need to be used B) What are the materials restricted or avoidable for this project C) What are the legal restrictions since it is CRZ zone	A) Innovative, durable & eco friendly materials shall be preferred B) Minimize the utilization of concrete and other carcinogenic products. NGT guild-lines shall be followed
10.	Execution Related A) Project starting /finalizing Date of Start execution B) Implementation time	A) Tender shall be finalized by 28 feb 2023 B) 5 months for execution C)2% of estimated cost and

	C) Is there any EMD, if so what % and what is the payment terms	payment mode in the form of DD, online transfer.
11.	<p>Clarity required regarding the EOI terms and conditions</p> <p>A) Species of bamboo to be used</p> <p>B) Treatment methods to be adopted-like Boiled treatment , pressure treatment</p> <p>C) Treatment acid recommendation- Boris Borax, CCA</p> <p>D) Coating material recommendation-Exterior PU, Epoxy coating, Melamine</p> <p>E) Storage area for raw material and tools</p> <p>F) Permission for the vehicle movement</p> <p>G) Clarity regarding work timings</p> <p>H) Power supply assurance including generator support</p> <p>I) Procurement site details request-it is practically not possible since every time material used to come from different locations</p>	<p>A) To be proposed by bidder</p> <p>B) To be proposed by bidder, however it should be eco-friendly.</p> <p>C) To be proposed by bidder, however it should be eco-friendly.</p> <p>D) To be proposed by bidder, however it should be eco-friendly.</p> <p>E) Available</p> <p>F) Vehicle movement is accessible to complete site</p> <p>G) No restriction on work timings</p> <p>H) Power supply available.</p> <p>I) Materials can be procured as per market availability.</p>
12	Detailing of civil work both in Concept drawing as well as BoQ	Shall be finalized after conceptual drawing.
13	No of expected people at each place so that the other civic amenities like toilet, seating, conference rooms, halls etc can be accounted.	May kindly Sr. no. 23 of this document.
14	Provide the internal space requirements or detailed requirement of spaces inside	May kindly refer EOI document Para number 1.2.3 and Sr. no. 23 of this document.

	interpretation and convention center.	
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