

National Science Centre
(National Council of Science Museums)
Near Gate No.1, Pragati Maidan,
New Delhi – 110 001

Tender No. 18/11-12

Tender document for Supply, Fabrication, Installation and commissioning of Aquariums at National Science Centre, Delhi

Sealed Tenders are invited for **Supply, Fabrication, Installation, Commissioning and maintenance of one Fresh Water Aquarium and one Marine Aquarium at reception area of National Science Centre (NSC), Delhi** as per **Specification (Annexure A)** and compatible with the **Reference Drawing (Annexure B)** of the base cabinet structure provided by the NSC.

General Terms and Conditions:

- 1) Tenders, as available in this document, should be addressed to **the Administrative Officer, National Science Centre, Delhi**. Tenders will be opened on **21st November 2011 at 3.00 PM** in presence of available tenderers. Tenders received after the due date shall not be accepted and will be rejected straightway without any further reference. Bid documents can be downloaded online from the web site of <http://www.nscdelhi.org> or **may be obtained from the office of National Science Centre from 4/11/2011 to 19/11/2011 (up to 05:00 PM)**. The last date for submission of tenders is up to **1:00 PM on 21/11/2011**. No tender will be received after aforesaid date and time, under any circumstances whatsoever.
- 2) **Tenders will be considered only from recognized *bonafide* Contractors in the trade concerned who are in the same business for last five years and have executed at least 3 projects of values not less than Rs 5 Lakhs in last two years. Documentary proof in support of such credential is to be submitted with the tender. Offers of bidders not qualifying in these respects will be rejected without assigning any reason.**
- 3) The rates shall be filled both in words and figures correctly as per the **Offer Form (Annexure C)**.
- 4) No conditions contrary or in addition to the tender provisions shall be accepted. The sealed cover of the bid should contain DD towards Earnest Money Deposit of **₹10,000 (Rupees Ten Thousand Only @ 2.5% of the estimated total cost)** with the Offer Form, **Offer Letter (Annexure D)** and a copy of the Tender Document signed on all pages as a mark of acceptance of all provisions in the said document. No conditions should be put in the cover. The cover should be super scribed, indicating the contents (Techno-commercial bid, & EMD). All letters, enclosures, papers should be submitted in duplicate. You should clearly indicate on each copy, whether it is the Original or Duplicate copy.
- 5) The bid should be accompanied by Earnest Money Deposit by Demand Drafts in the name of National Science Centre payable at Delhi. Bids not accompanied by EMD will be rejected *ab initio*.
- 6) The Earnest Money Deposit of the unsuccessful bidders will be refunded without any interest.

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

- 7) Bids will be opened **at 03:00 PM on 21/11/2011**, in the Meeting Room of National Science Centre, Delhi in the presence of available authorized competent representative of the bidder having an authorization letter, who can take decision on the spot.
- 8) The Centre reserves the right to accept any or reject all the tenders without assigning any reasons for doing so.
- 9) Time of carrying out the work is 6 weeks from the placement of confirmed work order from NSC, Delhi.
- 10) Security deposit of 10% will be deducted from the final bill which shall include the EMD submitted by the agency. Security deposit shall be returned to the successful tenderer after the defect liability period (which is twelve months in this case) from the date of successful completion of the work duly certified by the Centre.
- 11) All required materials for Aquarium, up to commissioning, shall be arranged by the agency at their own cost. Agency should note that the amount quoted for Aquariums includes materials and maintenance cost. Except reference drawings and electrical power at working site, no other materials will be supplied to the Agency by NSC, Delhi.
- 12) Minor design and content modifications as and when required during execution of the work as suggested by the competent authority have to be carried out by the successful tenderer.
- 13) Overwriting in the Offer Form is not permitted and shall be rejected straightway without giving any reason.
- 14) Bad workmanship will not be accepted and if carried out is liable to be rejected and should be rectified by the successful tenderer at his/their cost as per specifications and directions given by the authorized representative of the Centre. The decision of the NSCD, as to items of bad workmanship and proper replacement/rectification will be final and binding on the successful tenderer.
- 15) The Centre shall not be liable for injury of any employee deployed by the successful tenderer within/outside the National Science Centre, New Delhi premises/site for execution of the work under this tender.
- 16) No advance payment shall be made by this centre under any circumstances. No interim payment will be released. Final Payment shall be released after satisfactory completion of the entire job and commissioning of the aquariums.
- 17) In case, the successful tenderer refuses to accept the offer after finalization or does not comply, in writing, within 3 (Three) days from the date of placement of the order as per the finalized and accepted terms & conditions, the order shall be cancelled forthwith without any further reference.
- 18) The rates quoted in the bids shall be firm and shall not be subject to exchange variations, labour conditions, fluctuations in Railway Freights or any conditions whatsoever. Bidders must include in their rates all taxes and levies like Sales Tax, VAT, Excise Duty, Octroi and any other Tax and Duty or other levies levied by the Central Government or any State Government or Local Authority, if applicable. No Claim in respect of these, whether existing or those arising in future shall be entertained by the Centre. The prices shall be firm and shall include delivery and installation at site where necessary.
- 19) Lowest tenderer will be the one who is lowest in overall quantum of work. Bidders shall note that unless otherwise stated, the Tender is strictly item rate basis and his/her/their attention is

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

- drawn to the fact that rates for each and every item should be correct, workable and self-supporting.
- 20) The Bidder must obtain for himself at his own responsibility and at his own expenses all the information which may be necessary for the purpose of making a Tender and for entering into a Contract and must examine the Drawings and must inspect the Site of the work and acquaint himself with all local conditions, means of access to the work, nature of the work and all matters appertaining thereto.
 - 21) The successful bidder is bound carry out any items of work necessary for the completion of the job even though such items are not included in the quantities and rates. Schedule of instructions in respect of such additional items and their quantities will be issued in writing by the NSC.
 - 22) Contractors are requested to note that no extra items or deviated item of work is to be executed without taking prior permission from NSC. If the extra items or deviated items of work are executed without taking prior permission, the NSC shall not be held responsible for the payment of such works executed.
 - 23) Since the work is to be carried out in the existing premises the Contractor will have to take at most care to not to damage any of furniture, doors, windows and window panes etc., and if it is observed that the damage has been done by the Contractors / their workmen / representative, it will be Contractors responsibility to make good the same at their own cost risk.
 - 24) The bids submitted shall be evaluated keeping the technical & financial parameters as decided by NSC.
 - 25) **The quantities in the Schedule of Quantities approximately indicate the total extent of work but may vary to any extent and may even be omitted thus altering the aggregate value of the Contract. No claim shall be entertained on this account.**
 - 26) All the required tools for fabrication of Aquariums shall be brought by the successful tenderer.
 - 27) Party must have valid TIN/WCT & PAN number and attach a documentary proof with the Tender.
 - 28) The agency shall take care of all statutory obligations as required under the Contract Labour Act.
 - 29) Tax deductions at source will be made for (a) Income tax & (b) Work contract tax at prevailing rates.

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

SPECIAL CONDITIONS OF CONTRACT

MATERIALS & WORKMANSHIP TO CONFIRM DESCRIPTION

All materials and workmanship shall so far as procurable be of the respective kinds described in the Schedule of Quantities and/or Specifications and in accordance with the instructions of NSC. The Contractor shall at his own cost arrange for and/or carry any test of any material which may be required.

CERTIFICATE OF COMPLETION & DEFECTS LIABILITY PERIOD

The work shall not be considered as completed until the same is certified in writing that they have been practically completed. The Defect Liability Period shall commence from the date of such Certificate.

DELAY PAYMENT

No interest shall be paid for delayed payment due to reasons whatsoever.

SETTLEMENT OF DISPUTES BY ARBITRATION

All disputes and differences between the successful tendered and the Centre of any kind except quality of workmanship and materials whatever arising out of or in connection with the order on the carrying out the work (whether during the progress of the work or after their completion and whether before or after the determination, abandonment or breach of the terms and conditions of the order) shall be referred to the sole arbitration of a person nominated by the Director General, National Council of Science Museums, whose decision in this regard will be final and binding on both the successful tenderer and the Centre. The provisions of the Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof and of the rules made hereunder for the time being in force shall apply to arbitrations proceedings under this Council.

ABANDONMENT OF WORKS:

If at any time after the acceptance of the Tender, NSC shall for any reasons whatsoever not require the whole or any part of the works to be carried out, the certifying authority shall give notice in writing to the Contractor who shall have no claim to any payment of compensation or otherwise whatsoever on account of any profit or advantage which he might have derived from the execution of the whole works.

COMPENSATION FOR DELAY (LIQUIDATED DAMAGES)

The completion period of the entire work as stated above shall be 21 Days, from the 7th day of issuance of LOI shall be deemed to be the essence of the contract. The time limit specified above and as approved in writing by NSC, shall be strictly adhered to and followed. **Liquidated Damages will be applicable, on the entire value of the contract.** In case of delay in completion of a specific job beyond the date of completion given by the Contractor and accepted by NSC, unless extended by NSC in writing, Liquidated damages @ 2% of the order value per week up to maximum 10% shall be deducted from security deposit / Final bill for delay in completion of the job.

In case of delay of over five Weeks in completion of the work beyond the overall stipulated completion date, NSC reserves the right to terminate the contract and get all the jobs or the delayed job completed through another agency of its choice. Any extra expenditure that NSC will have to incur for completion of the balance job/s through another agency on account of higher rates quoted by the agency will be recovered from the Contractor's pending bills, retention money, Security deposit and Performance Guarantee in the same order of preference. Moreover, NSC shall be entitled to all other legal proceedings as may be required for shortfalls in recovery. The decision of the Centre in this regard shall be final and binding on the successful tenderer.

The bidders are requested to enclose the following documents:

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

1. EMD for Rs. _____ DD No. _____ Dated. _____
2. Copy of firm's registration certification.
3. Copy of Bank solvency certificate
4. Copy of PAN card
5. Letter of authorization/ certification from the manufacturer, if any.
6. *List of at least 3 customers at whose behest the tenderer undertook projects of values not less than Rs 3 Lakhs in last two years*
7. *Supply orders (Each not less than Rs. 03.00 lakhs) for last two years and corresponding completion certificates of clients*
8. Organizational and business profile of the firm with details of manufacturing plant including machineries, standards followed and quality monitoring and control methods
9. Sales Tax certificate
10. ISO:9001 Certification (if any)
11. ISO:14001 Certification (if any)
12. Product catalogues of all the components (excepting the livestock) to include in the system

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

Special Technical specifications

Experience and Capabilities of Tenderers

- a) The tenderer must have made public / private aquariums tanks of world class quality including Marine Aquariums and Freshwater Aquariums in any part of India
- b) The tenderer must have made large volume aquariums with volume above 600 lit in an aquarium.
- c) The tenderer must have made aquariums with technologies involving high tensile strength glass and concrete bonding
- d) For all such work done, the tenderer shall submit the details of work done with contact numbers of the clients from whom NSC, Delhi shall seek information
- e) The tenderer shall submit, along with their tender, copies of their latest income tax returns, central sales tax no with dues cleared, and imp-export license to quickly import certain goods for the project in short time

2. Tender Details

Tenders must indicate full specifications of aquarium tanks with drawings and dimensions; requirements from NSC regarding the site, water supply, electric supply etc.; rates, delivery schedule and any other condition.

NB: NSC can only supply Water of the quality as supplied by the Delhi Jal Board on the site of the National Science Centre. Any other processing/medication/filtering/purification etc., as and when required for the healthy maintenance of the systemis to be done by the successful tenderer.

3. Work Schedule

Submission of working drawings with dimensions and specifications, and requirements from NSC latest within **four days** from the date of order.

Fabrication, Supply and Installation of the aquarium tanks latest within **4 weeks** from the date of order and completion with live species after stabilization within 6 weeks from placement of LOI. In case of any delay, attributable to the supplier, a penalty shall be imposed @ 2% of total work value per week subject to a max of 10%.

4. Payment terms

- a) No advance payment can be made. 90% of the total value of work shall be paid after satisfactory completion of installation.
- b) 10% of the total value of work (which includes the EMD submitted by the tenderer) shall be retained by NSC for the warranty period of one year, during which the supplier shall mend all defects due to the use of faulty materials and/or workmanship entirely at their cost, failing which NSC will have the liberty to get the mending work done at the cost of the supplier.
- c) **Maintenance rates for three years (showing amount applicable for each year after expiry of the initial warranty period of 12 months) should be separately mentioned. Maintenance charges will be paid, after the expiry of the 12 months warranty period, quarterly after completion of each quarter, subject to satisfactory certification by the authorized NSC official. During the maintenance period, the tenderer shall maintain the same quality of aquarium as installed by them along with the quantity and quality of fishes/live species supplied by them for execution of the contract.**

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

5. Warranty and Stabilization

The Vendor shall put marine/freshwater specimens-invertebrates and compatible fishes of NSC's final order. The Vendor shall put aquatic plants and fish specimens of NSC's final order.

The vendor shall **maintain the aquarium at least for three years, after the expiry of the initial warranty period of 12 months**, to NSC's full satisfaction. Rates for such maintenance should be mentioned at the time of bidding and variation in the rate will be permissible over the period of four years from the time of installation.

During this **initial warranty period of one year and the 3 years period of maintenance thereafter**, the Vendor shall take every care for stabilization of fish population in the tank and promptly replace the dead/sick specimens on request (written or telephonic) within 48 hours of raising such warrant/request. **The vendor shall furnish full on-site comprehensive warranty for one year on pumps and electrical equipment other than lamps as well as the feeds for the fish, and three years full warranty for aquarium tanks and metal/wooden components, if any.**

There shall be **at least one weekly maintenance/servicing/replacement/operation visit per week (during the warranty and the maintenance period)** so that at no point of time the aquarium is deteriorated from its initial condition as these aquariums are installed in the most prominent place in the centre's entry lobby.

6. Other Conditions

NSC shall have the right to reject any or all tenders without assigning any reason and shall not be bound to accept the lowest tender. NSC will have the discretion to award the work to more than one artist/fabricator for the expediency of work.

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

Technical Specifications

- a) Entire process of fabrication & installation of both Fresh water and Marine life aquariums should be done by engaging suitable highly skilled technical persons to be completed at NSC, Delhi site, during office hours i.e. 10.00 A.M. to 5.30 P.M. Both the aquarium should be good looking and should enhance the beauty of reception area.
- b) Both Aquaria should be sufficiently strong to be self-sustained under full working-load water pressure.
- c) **All necessary equipment like Base of marine aquarium (aragonite), live rocks, Protein skimmer with venturi, wave maker, Wet Dry filter, Canister filter, Heater (EHEIM), Water, Medicine, Test kits, Live species, Decorative materials, Special light effects etc.** are to be arranged, transported installed and maintained by the tenderer. In case any third party involvement is required to maintain any of these components, liaisoning with the third party for the purpose will be the vendor's responsibility.
- d) National Science Centre will only provide cabinet place for keeping aquariums with electricity point at place. Tenderer should clearly mention details of live species offered at time of submitting tender. All the work should be environmental friendly and as par national and international standards.

Marine Water Aquarium

Dimension: 1830 mm (L) x 460 mm (D) x915 mm (H) (Approximately) – 1 no.

Aquarium Construction

The aquarium tanks shall be constructed so as to place them on wooden platform, supported on sturdy wooden frames, which NSC shall make as per Reference Drawings. All the glasses, 19 mm or thicker sections, shall be structurally tempered and protected.

It shall be fully the Vendor's responsibility to create non-leaking and structurally stable aquarium with 3 year warranty on workmanship. The vendor must have prior successful experience in creating masonry and glass aquarium and show NSC currently functional such aquariums done by the Vendor with certificates from the owner. Successful hydrostatic testing is in the Vendor's scope.

Plumbing and overflow mechanisms, if any is necessary, must use acrylic pipes and virgin Grey PVC pipes with ISI mark.

Protein skimmer

The aquarium shall be powered by **professional grade Protein skimmer with Venturi**. The protein skimmer shall be in minimum 4mm cast acrylic pipe. The pipe diameter shall be minimum 150 mm and the protein skimmer height minimum 2ft.

Particulate Matter filter system, submersible, non-metallic – 3000.lit/min

The filter system shall consist of box type 6mm acrylic chamber filter of appropriate size.

The aquarium in addition shall have at least 3000 lit/min non-metallic pump to create non turbulent currents in the chamber.

The filter system shall contain media like expanded Polyethylene foam and 1" thick polyester fibre pad for fine filtration.

Wet Dry filter, Canister Filter should be installed

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

Lighting

3 nos. metal halide light fixtures - blue, 150 watt, only from Phillips, Osram, Crompton Ballast and the reflectors made out of cast Aluminium with 4-5" depth.

2 tube lights of day light white (36 w Phillips/ Osram/ Crompton or equivalent) 3200 lumens in packs enclosed in humidity proof acrylic box to be installed on the hood with one common switch.

Hood

The aquarium shall be covered with hood made of 12 mm, 710 grade marineply with all stainless steel fixtures. The hood would have structural elements in wood or rust protected MS to give structural strength to the hood. The hood must not bend. The hood shall have top opening 12 inch wide and 6.5 feet shutters- 2 nos.

There shall be all concealed lighting points distribution in the hood. It shall include 4" co-axial exhaust fan and a total of 6 nos. 10 amp plug points, 3 on each side of the aquarium. All the plug points should be moisture protected.

There shall be only one electrical cable, of sufficient amperage coming out of the hood. All the electrical switches shall be 16 amp industrial grade LED based.

The hood shall be coated on outside with water proof grey putty followed by 1 coat primer and 2 coat acrylic emulsion paint of the wooden furniture of Asian paints or equivalent in colour shade as approved by NSC. The inside of the hood shall be coated with Epoxy paint to prolong the life of the plywood and make it nonabsorbent.

Titanium Coil Chiller

1 hp titanium coil chiller based on energy efficient rotary compressor. Vendor shall provide suitable nonmetallic pump to drive aquarium water through the Chiller. The plumbing for the chiller shall be in Vendor's scope. 1 yr. warranty on Chiller is applicable.

Tank shall have (a) 100 kg natural aragonite sand with size under 5mm, (b) 200Kgs of perforated rocks naturally weathered, and coated with Portland cement black and pasted with aragonite, (c) 50 kgs of live rock, (d) 70kg marine salt, (e) PH meter with glass probe, (f) 600 watt (300w x2) electric heater (EHEIM), (g) Hydrometer /thermometer, (h) 18 watt UV lamp with marine pump.

Proposed Live Fish Species

Select 24 live species from the following with not more than 4 no specimen of 4" – 5" size from each species. At any point of time during the Warranty or maintenance the livestock should be maintained at the same level as is accepted at the time of completion of installation.

Neon Goby, Blue cheeked Goby, Clown Wrasse, lemon peel Angel, Cherub Angel, Blue Damsel, Common Clown, Anemones, Fan worm, Pink Malu Anemone, Purple Based Anemone, Blue Star fish, Red Knobbed Starfish, Queen Angel, lemon peel Butterfly, Blue Tang, Picasso Tiger fish.

Specimens should be chosen to result in most compatible cohabitation among them. In case of any deviation from the above mentioned species, the same can be done with the prior approval of the Centre. Appropriate natural plant species should be included and maintained so as to make it the most attractive and healthy system for the specimens kept therein. **No artificial plant or animal models should be used.**

Fresh Water Aquarium

Dimension: 1830 mm (L) x 460 mm (D) x 915 mm (H) (Approximately) – 1 no.

Aquarium Construction

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

The aquarium tanks shall be constructed so as to place them on wooden platform, supported on sturdy wooden frames, which NSC shall make as per Reference Drawings. All the glasses, 19 mm or thicker sections, shall be structurally tempered and protected.

It shall be fully the Vendor's responsibility to create non-leaking and structurally stable aquarium with 3 year warranty on workmanship. The vendor must have prior successful experience in creating masonry and glass aquarium and show NSC currently functional such aquariums done by the Vendor with certificates from the owner. Successful hydrostatic testing is in the Vendor's scope.

Plumbing and overflow mechanisms, if any is necessary, must use acrylic pipes and virgin Grey PVC pipes with ISI mark.

Protein skimmer

The aquarium shall be powered by **professional grade Protein skimmer with Venturi**. The protein skimmer shall be in minimum 4 mm cast acrylic pipe. The pipe diameter shall be minimum 150 mm and the protein skimmer height minimum 2ft.

Particulate Matter filter system, submersible, non metallic – 3000.lit/min

The filter system shall consist of box type 6mm acrylic chamber filter of appropriate size.

The aquarium in addition shall have at least 3000 lit/min non metallic pumps to create non turbulent currents in the chamber.

The filter system shall contain media like expanded Polyethylene foam and 1" thick polyester fibre pad for fine filtration.

Wet Dry filter, Canister Filter should be installed

Lighting

3 nos. metal halide light fixtures - blue, 150 watt, only from Phillips, Osram, Crompton Ballast and the reflectors made out of cast Aluminium with 4-5" depth.

2 tube lights of day light white (36 w Phillips/osram/ Crompton or equivalent) 3200 lumens in packs enclosed in humidity proof acrylic box to be installed on the hood with one common switch.

Hood

The aquarium shall be covered with hood made of 12 mm, 710 grade marine ply with all stainless steel fixtures. The hood would have structural elements in wood or rust protected MS to give structural strength to the hood. The hood must not bend. The hood shall have top opening 12 inch wide and 6.5 feet shutters – 2 nos.

There shall be all concealed lighting points distribution in the hood. It shall include 4" co-axial exhaust fan and a total of 6 nos. 10 amp plug points, 3 on each side of the aquarium. All the plug points should be moisture protected.

There shall be only one electrical cable, of sufficient amperage coming out of the hood. All the electrical switches shall be 16 amp industrial grade LED based.

The hood shall be coated on outside with water proof grey putty followed by 1 coat primer and 2 coat acrylic emulsion paint of the wooden furniture of Asian paints or equivalent in colour shade as approved by NSC. The inside of the hood shall be coated with Epoxy paint to prolong the life of the plywood and make it nonabsorbent.

Titanium Coil Chiller

1 hp titanium coil chiller based on energy efficient rotary compressor. Vendor shall provide suitable nonmetallic pump to drive aquarium water through the Chiller. The plumbing for the chiller shall be in Vendor's scope. 1 yr. warranty on Chiller is applicable.

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

Carbon Dioxide Injection system

A 2 kg Govt approved Carbon Dioxide cylinder shall be connected to each tank with tubings and diffusers. The cylinder shall be controlled by needle valve. The carbon dioxide shall be injected automatically with the help of solenoid valve and the timer to match with the timing of light period. Each tank shall have 100 kg natural Golden sand with size 2-5 mm. suitable for planted aquarium. The fertilized substrate (containing Fertil –X) of 3 inch depth shall be provided at the bottom. Each tank shall have 50 kg of naturally weathered non calcium rocks all of same pattern to create uniform background and large specimen of drift wood about 24 inches long shall be placed for beautification in aquarium. Each tank shall have (a) 18 watt UV lamp with suitable pump, (b)) PH meter with glass probe, (c) 600 watt (300w x2) electric heaters (EHEIM), (d) Hydrometer /thermometer. The vendor shall provide basic automation system to control lighting, UV, timers and contactors.

Proposed Live Fish Species

Select 24 live species from the following with not more than 4 no specimen of 4” – 5” size from each species. At any point of time during the Warranty or maintenance the livestock should be maintained at the same level as is accepted at the time of completion of installation.

Siamese Fighter, Blue Gourami, Neon Dwarf Gourami, Neon Tetra, Black Angel fish, Blue Angel fish, Kuhli Loach, Tiger Barb, Black Molly, Black widow, Zebra Danio, Flying Fox, Sucker mouth Catfish, Mono Angel, Striped Finger fish, Blue discus, Red discus.

Specimens should be chosen to result in most compatible cohabitation among them. In case of any deviation from the above mentioned species, the same can be done with the prior approval of the Centre. Appropriate natural plant species should be included and maintained so as to make it the most attractive and healthy system for the specimens kept therein. **No artificial plant or animal models should be used.**

Power Backup

A common Line-Interactive Inverter based UPS with following features: 220 V, 50 HZ AC, 5 KVA Square-wave Back up having battery backup for 60 minutes on full load.

Protocol for maintenance of one 6 feet marine and one 6 feet fresh water aquariums at National science Centre, Delhi

The Tenderer shall accept full responsibility for the followings at their cost:

- 1) maintenance of living rocks, vegetation, fish, crab, and all live specimens in the best of their health always upto a minimum of 90% of the original population at any point of time
- 2) maintenance of the aquarium tanks, and all supporting equipment in tip-top clean and in the best of their condition all the time
- 3) Maintaining the quality of water in marine aquarium at all times for sustenance of live species
- 4) Regular feeding of the fish population in the prescribed manner and quantity
- 5) Regular medication and additives for proper health of the living specimens
- 6) Regular maintenance of all electrical items and supporting equipment and prompt replacement of fused lamps and/or defective parts
- 7) Maintenance of the minimum quantity of spares and pumps at the aquarium site for prompt replacement at all times

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

- 8) Change of carbon dioxide injection during the lighting hours in the aquarium
- 9) **Maintenance of the Inverter-based power back-up system for 15-20 min duration**
- 10) Mending of accidental damages to the aquarium caused by visitors, or NSC staff or natural calamities at the cost of NSC. However, damages caused by the staff of the tenderer shall be mended by the tenderer at their cost

National Science Centre shall accept responsibility for the followings:

- 1) Provision of stable electricity and water supply
- 2) All inclusive payment of quarterly charges in the first week of the next quarter

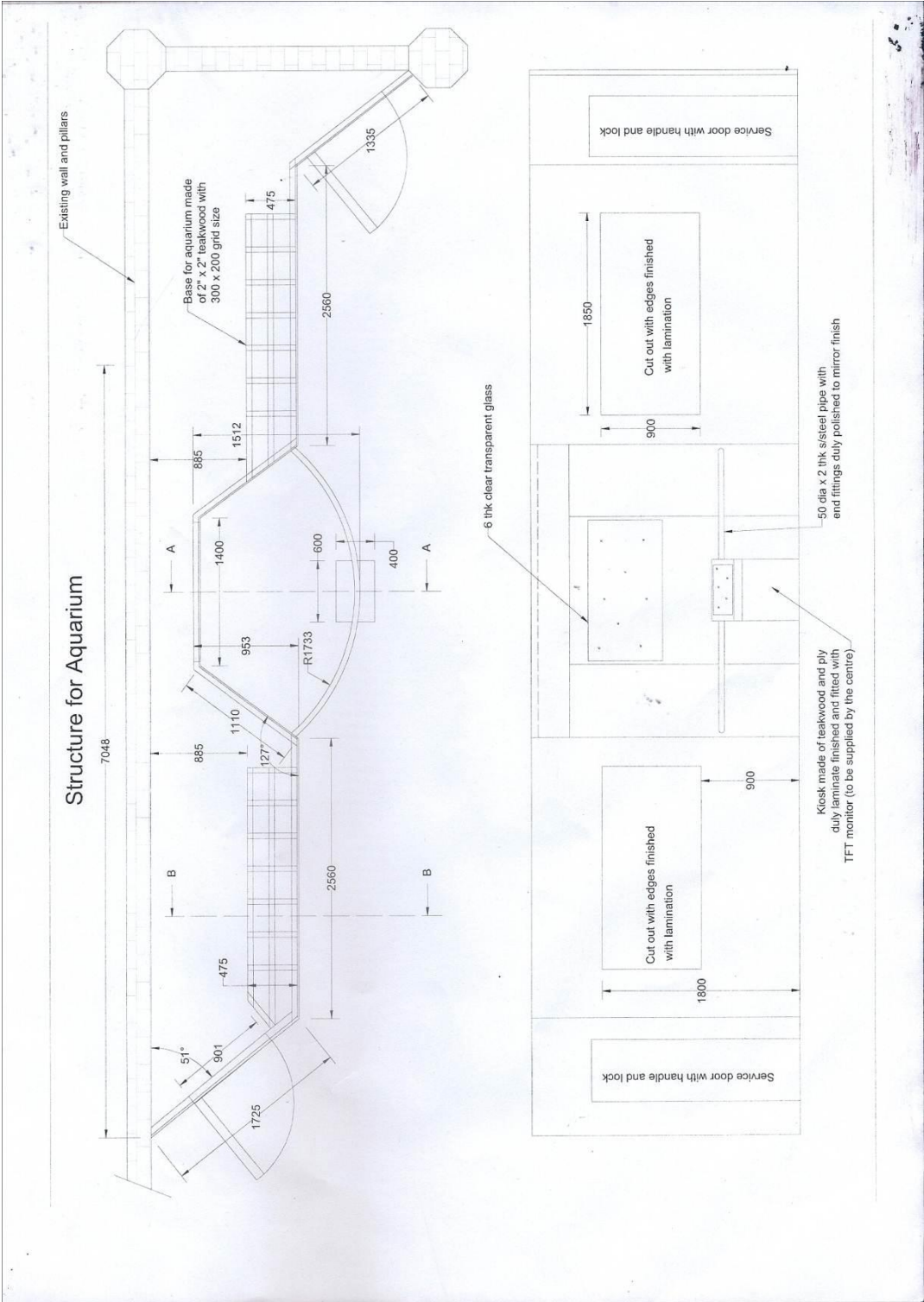
I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

Reference Drawing



I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Date :
Address :

Signature & Stamp of Authorized person

Offer Form

Sr. No.	Item	Quantity	Unit Price	Total
1.	Marine Aquarium of 1830 mm (L) x 460 mm (D) x 915 mm (H) dimension as per enclosed specification	1		
2.	Fresh Water Aquarium of 1830 mm (L) x 460 mm (D) x 915 mm (H) dimension as per enclosed specification	1		
3.	Freshwater fish as per enclosed list (please quote in the enclosed table and insert total price as unit price)	1		
4.	Marine fish as per enclosed (please quote in the enclosed table and insert total price as unit price)	1		
5.	Marine Aquarium plants, Electrical Fixtures, Lights, Pumps, filters, Heaters, Gadgets and all other components of the aquarium as per enclosed list (please quote in the enclosed table and insert total price as unit price)	1		
6.	Annual maintenance charges for Fresh Water Aquarium as per the attached protocol, payable quarterly in the first week of the next quarter, valid for three years after the free maintenance period of 12 months	1		
7.	Annual maintenance charges Marine Aquarium for the attached protocol, payable in the first week of the next quarter, for three years after the free maintenance period of 12 months	1		
8.	Grand total (Except Sl. Nos. 6 & 7)			

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

List of Fresh Water Fish required for the Aquarium of National Science Centre

Sr. No.	Item	Quantity	Unit Price	Total
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				
	Grand total			

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

List of Marine Fish required for the Aquarium of National Science Centre

Sr. No.	Item	Quantity	Unit Price	Total
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				
	Grand total			

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

List of plants required for the Fresh Water Aquarium of National Science Centre

Sr. No.	Item	Quantity	Unit Price	Total
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				
	Grand total			

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

List of plants required for the Marine Aquarium of National Science Centre

Sr. No.	Item	Quantity	Unit Price	Total
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				
	Grand total			

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :

**Offer Letter
(On the Letter Head of Tenderer)**

TENDER NO:

Date:

To,
The Administrative Officer,
National Science Centre,
Bhairo Road
Near Gate No. 1 (Pragati Maidan)
New Delhi – 110 001

Sub: Tender for SITC of Aquarium at the National Science Centre, Delhi

Dear Sir,

Having examined the specifications and schedule of quantities relating to the work specified in the memorandum, hereinafter set out and having visited and examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the tender, I/We hereby offer to execute the works specified in the said memorandum at the rates mentioned in the Offer Form and in accordance with all respects of the specifications, design, drawings and instructions in writing referred to in conditions of tender, the Articles of Agreement, Special Conditions, Schedule of Quantities and Conditions of Contract and with such materials as are provided for by, and in all other respects in accordance with such conditions so far as they may be applicable.

Thanking You

Yours faithfully

(Proprietor/Director/Partner/Authorized Signatory)

I/we hereby declare that I/We have read and understood the above instructions for the guidance of bidders.

Signature & Stamp of Authorized person

Date :

Address :