

Swami Vivekananda Museum, Khetri
Tender for Period Settings

Tenders are invited, from experienced museum fabricators, for fabrication and installation of Period Settings including (i) wooden structural work, (ii) background perspective painting, (iii) painting on plywood cut outs to form multi-layer background, (iv) matching foreground with 3D objects and 2D paintings, and (v) appropriate electric illumination, but *without* the FRP figures, and with minute details, good finishing and coloring to give realistic look. The period settings shall be fabricated as per the scaled down models and supplied photographs, to ensure authenticity, in the following manner:

- a) Background: painting with acrylic or oil paint, set with cut outs in 2-3 layers
- b) Foreground: realistic 3-D figures/objects in appropriate postures
- c) Proscenium: acrylic painting on plywood as per the supplied design

Following period settings shall be fabricated:

No	Enclave with overall size	Qty	Rate	Amount
1	In Quest of God – showing Shri Ramakrishna welcoming Narendra with his friend (15'9" x 8'5" x 12'3" ht)	1		
2	Torch Bearers of Sri Ramakrishna - Shri Ramakrishna's disciples taking a vow for monastic life in Antpur (15'9" x 8'5" x 12'3" ht)	1		
3	Wandering Monk in Khetri – the episode of a dancing girl in Khetri palace (14'9" x 7'8" x 12'3" ht)	1		
4	Blessing of the Boon-Born Prince – Swami Vivekananda blessing the child in Khetri court (10' x 7'8" x 12'3" ht)	1		
5	The Parliament of Religion in Chicago – animatronics of swami Vivekananda addressing the audience (15'10" x 7'6" x 12'3" ht)	1		
6	The Thousand Island Park – Swami Vivekananda addressing his American admirers (10' x 7'8" x 12'3" ht)	1		
7	Hand-picked Disciples in London – Swamiji's meeting with Margaret Noble & Seviars (14'9" x 7'8" x 12'3" ht)	1		
8	Grand Reception in India – Maharaja of Ramnad pulling Swamiji's carriage in a procession (15'9" x 8'5" x 12'3" ht)	1		
9	Establishment of the Ramakrishna Mission – Swami Vivekananda explaining the objects of the Mission before other disciples (15'9" x 8'5" x 12'3" ht)	1		
10	Advaita Ashram in Mayavati – an animated diorama (16' width x 6' depth x 12' ht)	1		
11	Admirers and Disciples of Shri Ramakrishna and Swamiji (18' x 16' x 12' ht)	1		

Tender Conditions:

- 1) **Study of scaled down models:** Vendors shall submit tenders after careful study of the scaled down models (1:10) in Ramakrishna Mission Institute of Culture, Golpark.
- 2) **Vendor's Experience:** Along with the tender, the Vendor shall furnish photographs and details of similar work done by them in museums of repute.
- 3) **Submission of Tender:** Tenders shall be submitted in double sealed cover, the inside cover superscribing "**Tender for Period Settings for Swami Vivekananda Museum, Khetri**", so as to reach the Secretary, Ramakrishna Mission Institute of Culture, Golpark, Kolkata 700 029, **latest by 2 pm on (date)**)
- 4) **Quotation:** The Vendor shall quote the total price for delivery by road to Khetri in Rajasthan and installation at site, inclusive of the cost of materials & labour, taxes, duties, octroi, packing, insurance, transportation, and travel and subsistence cost of their staff for assembly and installation.
- 5) **Conditions:** General conditions of tender and technical specifications as attached shall remain in force.

General Conditions:

- 1) **Visual presentation :** Photographs attached with the tender and scaled down models (1:10) are only indicative to give an idea about the nature of work and by no means are final. The Vendor shall be responsible for (a) securing necessary drawings, sketches, photographs, (b) preparing the final design, and (c) submit working drawings for obtaining the approval of the Employer before fabrication. On advice from the Employer, the vendor shall incorporate necessary changes without any extra charge.
- 2) **Specifications for materials and fabrication processing:** The Vendor shall scrupulously follow the 'Technical Specifications' attached with this tender document for materials and workmanship. In case of any confusion or apparent incompleteness, the decision of the Employer is final.
- 3) **Inspection:** Authorised representatives of the Employer shall inspect the on-going fabrication work whenever felt necessary, and advise the vendor on required modifications and rectifications which Vendors shall carry out.
- 4) **Transportation :** In case of large exhibits or large structures, the exhibits shall be made in several parts of convenient size, transported by the Vendor under their responsibility and fully assembled at site. The vendor shall carry out all necessary finishing work after installation at site.
- 5) **Warranty:** All exhibits shall have one year warranty during which the Vendor shall be responsible for repair at their cost of all material and manufacturing defects. For this purpose 10% of the cost of model shall be held by the Employer for one year. In case of failure of the Vendor to promptly repair the defects, the Employer shall have the right to set things right at the cost of the Vendor.
- 6) **Definitions:** The term 'Employer' shall mean the head Monk in the Ramakrishna Mission, Khetri in Rajasthan; the term 'Vendor' shall mean the tenderers, and the term 'site' shall mean Ramakrishna Mission in Khetri, Rajasthan.
- 7) **Decisions :** The Employer shall have the right to accept or reject, partially or wholly, any offer without assigning any reason. Decisions of the Employer relating to this tender shall be final.

8) Delivery and Payment Schedule:

Stage	Details of Work	Time	Payment
1	Submission of visual presentation with working drawings and acceptance by the Employer	6 weeks from the date of order	25% with bank guarantee for 6 months
2	Fabrication of wooden structure, fixing of phenol bonded ply with two coats of creosote oil, and finishing the surface -- acceptance by the Employer	10 weeks	
4	Painting of the background and foreground-- acceptance by the Employer	24 weeks	25% with bank guarantee for 6 months
5	Fixing of FRP figures in period settings and lighting – acceptance by the Employer	4 weeks	
6	Dismantling in parts, transportation, installation at site, and finishing	6 weeks	40%
7	Completion of warranty period	1 year from final acceptance	Balance 10%

Technical Specifications for Materials to be used

- 1) Plywood – all plywood shall be phenol bonded, Century make, with two coats of creosote oil or any other good anti-termite treatment, 12mm for enclave base, 9mm for vertical panels and cut outs, 4mm for curved surface.
- 2) Laminate Sheet -- 1mm thick, with high resistivity to abrasion, high color fastness, uniform and superior sanding for best bonding power with substrates, conforming to international standards as set by ISO 4586-1 and IS 2046.
- 3) Teak Wood sections -- well-seasoned, without sap and knot, straight in edge, with two coats of creosote oil, or any kind of anti-termite chemicals, of the following dimensions:
 - a) Section 3" x 1", grid 2 ft x 2ft for exhibit base
 - b) Section 2" x 1", grid 2ft x 2ft for panels
- 4) Glass Sheet – Float glass, free from wave, straight in edge, 6mm, 9mm, 12mm, cut to size, edges nicely ground, bevelled wherever necessary, frosted designs in places
- 5) Acrylic and polycarbonate sheets – best quality, clear, transparent, resistant to scratch.
- 6) PVC items -- (Sheets / Tube / Rod) Heavy duty thick wall Oriplast Make.
- 7) Fibre Glass work – all FRP items are to be moulded with proper fibre glass reinforcement. The minimum thickness shall be 2mm for small items and 3mm for large items. For load bearing surface, thickness shall be 5mm with sufficient reinforcement. Following materials shall be used:
 - a) Fibre glass chopped strand (matt) -450gm/m²
 - b) General purpose (G.P) polyester resin
 - c) Fiberglass woven roving – density 610gm/cc
 - d) Hardener Catalyst 2% conc. and accelerator for setting.
 - e) For painting best quality pigments of specific colour to be used.
- 8) Adhesive:
 - a) Fevicol – SH, unsurpassed bonding strength, resistant to water and heat
 - b) Fevicol – Marine; normal water resistant for 48 hrs, boiling water resistant for 1 hr

- c) Fevicol SR998 (popularly called Dendrite); quick drying to be used in very restricted places where other varieties can not be used due to technical reason.
- 9) PVC tiles:
- a) Durable and scratch resistant to retain its attractive appearance for decades.
 - b) Resilient yet flexible to resist heavy rolling loads and foot traffic.
 - c) Fire retardant so that it is not self-ignite as per relevant BIS/ASTM/BS specifications.
 - d) Resistant to Cigarette Burns: Linoleum should not melt. Marks caused by
 - e) Cigarette burns can be easily removed by rubbing gently with steel wool or nylon scouring pad and applying a new coat of polish.
 - f) Naturally Anti-Static to repel dust and dirt, making it easy to maintain a clean and healthy environment.
- 10) Electricals:
- a) *Operation voltage*: All operations shall be from 230 volts, 50 Hz, a.c. supply
 - b) *Working mechanisms*: with fractional horsepower motors, 1/16th to 1/2 hp, depending on the requirement, coupled with silent Teflon/nylon worm wheel gear box for speed reduction.
 - c) *Animation*: electro-mechanical, polaroid animations, moving LEDs, scrolling messages, scrolling visuals, trivision, computer animations etc.'
 - d) *Neon Signs*: For titles of different sections, neon signs of size 15cm (the size of m) in blue, red or green colour, operable from 230 volts a.c. supply shall be made.
 - e) *Illumination*: generally cold light with CFL or fluorescent tubes of yellowish colour with good reflectors, and operating gears eg. chokes, starters, holders etc of the highest quality; chokes shall be placed outside the closed cabinets to avoid heat inside; in some places, where needed, spot light with mirrored reflector shall be used

Technical Specifications for Fabrication Process

- a) The stage setting shall be prepared based on the scaled down model supplied by the Employer along with necessary modifications as suggested by the Employer from time to time.
- b) The vendor shall have the responsibility of collecting supporting photographs and visuals from the Employer and other sources for authentic presentation.
- c) Vertical panels shall be done with teak wood framework with 2" x 1" section in 2 ft x 2ft grid; supported by teak wood vertical poles of size 2" x 2" at regular intervals; 9 mm phenol bonded ply to be used for vertical surface as well as for the multi-layer cut outs.
- d) Horizontal foreground base shall be done with teak wood framework with 2" x 1" section in 2 ft x 2ft grid, and 12 mm phenol bonded ply to be used for the base.
- e) Ply boards shall be Century make phenol bonded, surface smoothened and edges smoothly finished and provided with teak wood leaping finished by natural polish wherever necessary.
- f) In cut outs meant for mounting back-lit transparencies, the edges are to be guarded by thin anodised aluminium or plastic U channels.
- g) Laminated sheets shall be of best quality (Formica/Decolite) as per approved colour of 1 mm thick, pasted by Fevicol without air bubbles.
- h) All surfaces, which are to be painted, shall be properly smoothened with sand paper, with putty and undercoat paint before applying two coats of paint.
- i) At the bottom there shall be 3" x 2" (3" is the height) teak wood legs all around, well finished and glossy black painted to repel water while cleaning the floor.

Technical Specification of Painting Work

- 1) Canvas : Acrylic painting on best quality Camel brand pre-coated canvas of largest available size, treated against fungus and insects and joined by stitching which will be invisible after painting.
- 2) Painting Materials: Painting shall be done by Windsor and Newton/equivalent quality of Indian make (Camel) acrylic paint, as per the art layout and/or scale down model supplied by the Employer.
- 3) Mounting of canvas: The painter will first prepare a drawing in actual size for approval by the Employer before starting the painting. Thereafter the canvas shall be mounted on the wooden structure prepared for the stage setting according to the scaled down model supplied by the Employer.
- 4) Painting: The painting shall be done on the mounted canvas in realistic form and shall look alive and bright.
- 5) Dismantling: After finishing, the painting, in one piece, shall be carefully rolled for transportation to Khetri. Painting shall be done in such a manner that at the time of rolling there should not be any crack in the painting.
- 6) Final Mounting: Stretching and mounting of painting shall be done at site in Khetri after setting up of the wooden structure. There shall not be any fold or deformation in painting after stretching. Necessary retouching shall be done at site after final mounting.
- 7) Protective Coating: After final mounting and retouching, protective coating of varnish shall be given for lasting for at least ten years.
- 8) Fungus & Insect treatment: Adequate precaution shall be taken against attack of fungus and insects in at least ten years and the painter should discuss anti-fungal treatment with the Employer well in advance.