

Shiromani Gurdwara Parbandhak Committee

Teja Singh Samundri Hall, Sri Amritsar

Tender Notice

S.G.P.C., Sri Amritsar Invites Sealed tenders from the enlisted Contractors of appropriate Class of Conservation work for the following work. The tender documents have been uploaded on our web site (www.sgpc.net). Interested contractors can download tender documents free of cost.

S. No	Name of Work	Estimated Cost	Earnest Money	Time Limit
1	Renovation of Darshani Deori at Sri Darbar Sahib, Tarn Taran.	64,09,643/-	1,28,200/-	12 Months
i	Date, Time & Place of Submission of Tender	25-05-2022 upto 11:00 AM at Sri Darbar Sahib, Tarn Taran. .		
ii	Date, Time & Place of opening of Tender	25-05-2022 , 12:00 PM at Sri Darbar Sahib, Tarn Taran. .		

CONDITIONS:

- 1) Earnest Money shall be furnished only in the shape of Bank Demand Draft in favour of Secretary, S.G.P.C. payable at Amritsar.
- 2) Bidders/Contractors should attach copies of all the papers, i.e., copies the certificates as required in Eligibility criteria.
- 3) Undersigned has right to accept or reject any tender without giving any reason.
- 4) Contractor should have completed the one work of same amount or two works of 80% amount of estimate.

Secretary,
Shiromani Gurdwara Parbandhak committee,
Sri Amritsar

RESTORATION OF DARSHANI DEORI, SRI DARBAR SAHIB, TARN TARAN		
SR. NO.	ITEM OF WORKS	AMOUNT
1	ENABLING, DISMANLTING & DEMOLITION WORKS	
2	ROOFING, WATER PROOFING AND TERRACE WORKS	
3	CIVIL AND STRUCTURAL WORKS	
4	PLASTER AND FINISHES WORKS	
5	FLOORING WORKS	
6	DOORS AND WINDOWS WORKS	
7	ANTI TERMITE WORKS	
8	ART CONSERVATION	
TOTAL		

BOQ - RESTORATION OF DARSHANI DEORI, SRI DARBAR SAHIB, TARN TARAN					
SR. NO.	ITEM OF WORKS	UNIT	QUANTITY	RATE	AMOUNT
1	ENABLING, DISMANLTING & DEMOLITION WORKS				
1.1	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin- charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Item to include Providing and erecting Nylon Net covering covering fixed to the exterior face of scaffolding including duck tape with safety signage "work in progress" and "caution" boards at ground level and demarcation of entrances to the building.	sqm	625.90		
1.2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. : In lime mortar with old mughal bricks/Nanakshahi bricks	cum	19.563		
1.3	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineerin- charge.	cum	9.9		
1.4	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	cum	1		
1.5	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :				
	a. of area 3 sq. metres and below	nos.	7		

	b. of area beyond 3 sq. metres	nos.	1		
1.6	Removing of old sulphated lime wash/white or colour wash in multiple applications without causing damage to the surface below. Scrubbing (not by scraping which leaves surfaces scarred and scratched) with bristle brushes and hot water (Care to be taken if the surface is weak one it will break down). Hot water should be used if the limewash has an oil or tallow binder. Gentle cleaning with air abrasive tools can be used if the wall surface is not very weak.The final clean will almost invariably have to be carried out by hand scrubbing and rinsed with clean water on completion. The work should be done under supervision of a trained conservator (from decorative, ornamental and stucco work/surface)	sqm	222.63		
1.7	Careful dismantling of cement plaster / old decayed lime and cleaning the surface for replastering including disposal of unserviceable material at all levels including all lifts and leads as per the direction of Engineer-in-Charge /Conservation Architect. Utmost care must be taken to ensure that the brick masonry or any other part of the building is not damaged in the course of dismantling.	sqm	1075.70		
1.8	Raking out the joints of country/Nankshahi brick, scooping out dead and decayed mortar very slowly and carefully with scooping rods, then washing complete with hand spray pump. Preparing the surface for replastering including disposal of rubbish with 250m lead	sqm	1075.70		
1.9	Removal of debris, malba, buiding rubbish by mechanical support including loading, unloading and disposing away from the site to a lead of 15 kms.	cum	20		
1.10	Providing and strengthening the distressed structure of the ceilings by using steel adjustable props of required length with connecting pipes and couplers with wooden load distributors at top and bottom etc., complete. Item to include providing mechanical jacks for structurally distrssed beams, rafters, wall plates, trusses etc. with necessary wooden load distributors at the top and bottom, avoiding any damages to the surrouding areas, etc. complete.	sqm	83.38		
TOTAL OF 1					

2	ROOFING, WATER PROOFING AND TERRACE WORKS				
2.1	Providing & laying of two three course bricks slab using traditional Nanakshahi I Lakhori/ country bricks of the same size and composition as that of the original bricks used on site. The bricks to be laid over a 50mm thick layer of lime concrete of composition 1:1:1 (1 Lime: 1 Sand: 1 Surkhi), and the same layer to be repeated on top of the 1st layer of bricks before laying of 2nd & 3rd layer of bricks. The slab to be cured for 4 - 5 days using appropriate methods like wet jute bags etc. 50mm thick lime concrete layer of composition 1:1 of brick aggregate & lime mortar (1:2 of Lime: sand), to be laid on top of the bricks & smoothing the same with necessary slope etc. & the same to be cured for 4-5 days using appropriate methods before finishing the same with 25mm thick layer of lime sand Plaster of composition 1:2 & smoothing the same with necessary slope. Item to include all necessary shuttering, tools, scaffolding etc. complete.	cum	7.80		
2.2	Providing gola 75mm x 75mm in lime concrete 1:2:4 (1 lime: 2 coarse sand: 4 graded stone ballast 10mm nominal size) including finishing with lime mortar 1:2 (1lime: 2 fine sand)	m	34.20		
2.3	Making Khurra for 45 X 45 Cm with 18 mm stone as a base, over additional layer of APP waterproofing layer and sealing all edges, (as per detail) complete.	each	4.00		
2.4	Lime concrete with 12 mm nominal size brick aggregate and 50% lime mortar 1:2 (1 slaked lime : 2 surkhi) rammed and finished with gur and belgiri treatment	cum	2.17		
2.5	Lime concrete terracing on roofs with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 Slaked lime : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with parpaet wall complete	cum	14.73		
TOTAL OF 2					

3	CIVIL AND STRUCTURAL WORKS				
3.1	Restoration and repairs of Lakhori/country brick masonry of Walls in lime surkhi mortar 1:1:1 (1 lime : 1 surkhi : 1sand); As per original.	cum	12.35		
	Brick masonry for arches with lakhori bricks Add supervisiion & skill charges, shuttering, scaffolding, centering		1.00		
3.2	Providing and laying / fixing ornamental brick masonry in:				
a	Pillars/columns, arches, eaves in jharokhas	m	30.00		
b	Cornices and mouldings	m	33.20		
c	Petals details of various sizes	each	100.00		
3.3	Providing & constructing lakhori/ Nanakshahi brick masonry chajjas in lime sand surkhi mortar of proportions 1:1:1, of the same size & design as the original chajja details found on site, including providing sufficient anchorage to the new chajja band in the wall & adjacent chajja band area using 8mm SS pins or any other method as directed by the Architect. The chajja to be finished with lime sand surkhi plaster in proportion 1:2:1, of required thickness & necessary carvings to achieve the details & design as per the original. Sample of the chajja to be shown to the Architect for necessary approvals before finishing the same on site. The chajja to be finished using Lime sand plaster in proportion 1:3 of thickness not more than 10mm & finishing with 5mm thick Lime putty taking utmost care that the original details of the band are not lost. Item to include all necessary carvings, tools, scaffolding if required etc. complete. Mode of Measurement: Item to be paid as per the length xthe vertical height of the	sqm	30.93		

3.4	Providing and fixing Decorative Brackets in carved bricks and lime mortar/concrete sunk and moulded including providing and fixing with 4 Nos gun metal cramp 25x6 mm 30 cm long and dowel bars 7.5 cm long 6 mm dia as per design and installations on the instructions of the Engineer - in- charge/ Conservation architect				
a.	Bird shaped type as per design matching with the existing brackets: up to 1 m	each	62.00		
b.	Bird shaped type as per design matching with the existing brackets: up to 0.75 m	each	44.00		
c.	Small kiosk/jharokha type bracket with inverted petals as per existing size and deisgn	each	22.00		
3.5	Palki/rectangular pavillion with flat dome to construct in middle of each side of terrace, complete in all aspects including masonry in ornamental pillars, arches, conrnice, chajja, plain and decorative plaster, petals, finial, brick jalli etc.	each	3.50		
3.6	Burji/Small Octogan Kiosk with small dome to construct at each corner of the terrace, complete in all aspects including masonry in ornamental pillars, arches, conrnice, chajja, plain and decorative plaster, petals, finial, brick jalli etc.	each	4.00		
TOTAL OF 3					

4	PLASTER AND FINISHES WORKS				
4.1	<p>Providing Lime Surkhi Sand Plaster 1:1:1 (1 Lime putty: 1 Surkhi : 1 Sand) including preparation of mortar by traditional practice (by grinding), 30-40mm thick in 4 courses & Loi, tamping, beating, till the shrinkage cracks disappear. The work is done with all leads as the work is of restoration nature as per Punjab practice including adding gur, methi & gugal on old walls including removal of all old loose and decade plaster, each coat to be done after 3 days of previous coat. All surfaces to be plastered shall be thoroughly wetted for 24 hours before commencing plaster and shall be kept damp during the progress of work. At the same time the wall should not be too wet, as plaster is then likely to fallout. It is essential to maintain uniform suction of water by receiving surfaces, which shall be ensured by damping evenly all dry patches before applying plaster. The Project Manager will inspect and approve all preparatory work before the commencement of plastering work. Curing to be done for 21 days with help of water spray pump. incharge/Conservation architect.</p>	sqm	730.08		
4.2	<p>Lime surkhi plaster 1:1 (1lime: 1 surkhi) at ceiling and curved surfaces (including vaults, arches, Domes etc.) including preparation of mortar by traditional practice (by grinding) (in three courses where thickness is more than 15mm) including tamping beating curing till shrinkage cracks disappear. The work is to be done with all leads and lifts as the work is of</p>	sqm	140.25		
4.3	<p>Stucco work in lime, surkhi(1:2) as per traditional practices and design, the mortar should be prepared by grinding mill only. The thickness varies from 10mm to 100mm as per design.</p>	sqm	42.52		

4.4	<p>Providing decorative Lime Surkhi Sand Incised Plaster 1:1:1 (1 Lime putty: 1 Surkhi : 1 Sand) including preparation of mortar by traditional practice (by grinding), 150- 200mm thick in 7 courses & Loi, tamping, beating, till the shrinkage cracks disappear. The work is done with all leads as the work is of restoration nature as per Punjab practice including adding gur, methi & gugal on old walls including removal of all old loose and decade plaster, each coat to be done after 3 days of previous coat. Item to include addition of fibrous material, and non corrosive pins for anchoring etc complete/ All surfaces to be plastered shall be thoroughly wetted for 24 hours before commencing plaster and shall be kept damp during the progress of work. At the same time the wall should not be too wet, as plaster is then likely to fall out. It is essential to maintain uniform suction of water by receiving surfaces, which shall be ensured by damping evenly all dry patches before applying plaster. The Project Manager will inspect and approve all preparatory work before the commencement of plastering work. Curing to be done for 21 days with help of water spray pump. Item to include carefully cutting of plaster with fine tools to match the original pattern and design on site, with a sample patch to</p>	sqm	42.52		
4.5	<p>Lime surkhi Plaster 1:2 (lime: 2 surkhi) on pillars and other decorative features including cornices and bands.(thickness= 20-25 mm)</p>	m	80.43		
4.6	<p>VERONA LIME EMULSION -Providing and applying of Verona Vapour Permeable, water based Mature Lime wash emulsion finish of interior and exterior grade, used for conservation and restoration of historical buildings, formulated by Mature Lime Putty with fillers by OIKOS India, After the cleaning of surface and removing any loose or flaking material, applied two coats of Verona Mature Lime wash emulsion finish by OIKOS India on one coat of Lime Based primer by OIKOS India of approved color and shade to achieve desired finish, excluding the cost of surface preparation and scaffolding, apply by brush, roller and appropriate tools, all completes as per manufacturer's specification with the direction of Engineer-in-Charge.</p>	sqm	1039.80		
TOTAL OF 4					

5 FLOORING WORKS					
5.1	lime concrete (for terraces & flooring base) in the ratio of 1:1:1:4 (1 lime: 1 Surkhi : 1Coarse sand: 4 graded brick aggregate 20 mm nominal size)	cum	2.00		
5.2	Providing & laying of the modular brick tile on edge flooring on 20mm thick lime concrete leveling course laid over the sub- base of 50mm thick bed of local sand evenly spread & rammed brick ballast bed 150mm thick including the filling of joints of the brick courses with lime mortar (1lime : 1surkhi : 1sand). Post construction the exposed mortar joints in floors to be neatly scraped & raked with metal brush to bring neat finish.	sqm	41.8		
5.3	Providing and fixing Brick cladding for treads, risers etc. of approved quality, make and size and thickness to match the original details on site. Samples of brick size, finish to be shown to Project Manager for necessary approvals before procuring and laying the same on site. The bricks to be laid in lime mortar 1:4, including filling joints, curing, polishing and cleaning etc. complete. Item to include dismantling the existing damaged bricks, making good etc complete	sqm	30		
5.4	Gently Cleaning of flat brick or brick tile flooring or brick or brick tile on edge flooring using hard wire/jute brushes to remove all dirt, dry algae etc. to make the surface clean of all loose materials and dirt. The joints of the brick tiles to be carefully raked and cleaned and preparing for repointing including disposal of the rubbish to the duping ground. Careful Pointing in lime mortar 1:1:1 (1 lime: 1 Sand: 1 surkhi) mixed with 10% <i>additives</i> infusion to make sure that the joints are water tight. Item to include finishing the terrace level clean after repointing works, including all necessary tools for cleaning, raking and pointing etc. complete	sqm	99.12		
TOTAL OF 5					

6	DOORS AND WINDOWS WORKS				
6.1	<p>Providing and fixing well seasoned Deodar wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position including holdfasts etc all complete. Contractor to ensure that moisture content is well within IS codes and in case the timber available is not naturally seasoned, Contractor to get it seasoned in seasoning plant at his own cost. Any timber found unseasoned shall be rejected. All timber to be free of knots, cracks etc. Item to include 1 coat of primer & 3 coats of epoxy paint of of recommended brand of shade to match original colour or as directed by Project Manager. Section of embedded timber coming into contact with masonry with tar application/ solignum.</p>	cum	0.17		
6.2	<p>Providing and fixing or replacing damaged teak wood with well seasoned Deodar wood open able fully panelled shutters for doors or windows as per the original design & pattern instructed by the Architect including all necessary fitting brass hardware like screws, nails, parliamentary hinges, tower bolts, handles, of the same design, size & weight, etc. complete. Item to also include making all the mouldings and design of the panels as in the original detail with all beading patti as per size etc. Contractor to ensure that moisture content is well within IScodes & in case the timber available is not naturally seasoned, Contractor to get it seasoned in seasoning plant at his own cost. Any timber found unseasoned shall be rejected. All timber to be free of knots, cracks etc. Item to include coating/painting of section of embedded timber coming into contact with masonry with tar application/ solignum Mode of Measurement: Area of the door/window which is changed or made new in the entire door shall only be paid. Contractors to not charge the entire area of the shutter unless the entire shutter is made new. The area of the shutter includes the entire opening with all the leaves.</p>	sqm	40.35		

6.3	Scraping the existing wooden door and window shutters with frame removing existing paints and or polish, by applying paint remover over wooden surface, rubbing the surface with sand paper & as directed by Project Manager etc complete.	sqm	4.38		
6.4	Providing and applying one priming coat to new/old wood surfaces like doors and window shutters, joists, rafters, beams and other wooden members, including preparing of the surface by thoroughly cleaning oil, grease, dirt and other foreign matter with wire brushing, fine fire	sqm	90.78		
6.5	Painting two coats excluding priming coat with synthetic enamel paint in all shades on wood work, metallic or plastered, concrete surface to give an even shade.(with special quality paint)	sqm	90.78		
6.6	Providing & applying two or more coats of good quality wood preservative over wood work.	Sqm	90.78		
6.7	Providing and fixing heavy duty decorative type brass hardware as per existing design and pattern and weighing not less than weight of existing original hardware of that type or as per the weight of the original hardware including all necessary fixtures like brass screws etc. complete.				
a	Brass Door Handles (6" high)	each	40		
b	Antique Iron Aldrops	each	36		
c	Brass screws	kg	5		
TOTAL OF 6					
7	ANTI TERMITE WORKS				
7.1	Providing anti termite treatment to wooden frames of doors/windows of the existing - building as per IS: 6313 (Part III) by drilling 6mm dia. Holes at four corners at downward angle of about 45° at the junction of wood work and masonry and injecting 150ml of chloropyrifos , or equivalent 5% emulsion concentrate, sealing by filling putty, covering 2 years' guarantee	per hole	144		
7.2	Providing Anti termite treatment by coating or spraying oil based or equivalent approved chemicals as per IS 6313 (Part III) to wooden surfaces such as paneling, planking, false ceiling and wooden members where they are termite infested as directed.	sqm	90.78		
TOTAL OF 7					

8	ART CONSERVATION				
8.1	Conservation and restoration of wall paintings through standard conservation procedures including chemical cleaning of painted details, groutings of voids, consolidation of paint and plaster, filling of localised losses, retouching as necessary, and reconstruction of all missing areas in similar design, pattern and colours as the original. Whole painted areas to be considered for measurement. All works to be done under the supervision of art conservator.	sqm	44.20		
8.2	Provision of conservation grade or equivalent modern materials for conservation/restoration works on the wall paintings.	sqm	44.20		
8.3	Preparing graphical representation of missing designs and patterns of the main ceiling including indication of stucco, mirror and coloring, matching with existing parts for the replication work.	L.S.	L.S.		
TOTAL OF 8					