

UNIVERSITY OF TRINIDAD AND TOBAGO
SAN FERNANDO CAMPUS
REPAIRING AND PAINTING OF EXTERNAL WALLS

GENERAL DESCRIPTION

The UTT is desirous of refurbishing the exterior building surfaces of the San Fernando Campus. To accomplish this, the following activities would have to be completed.

Please note that the scope of works includes, but is not limited to the following activities.

Any activity or activities deemed necessary to achieve the objective should be included in the quotation separately.

Please note that any activity deemed necessary to achieve the objective, and which is not quoted separately will be considered included in the final price.

SCOPE OF WORKS:

1. The surfaces shall be thoroughly cleaned, by power washing (at 2500 psi) to remove all surface contaminants (oil, dirt, moss, mildew, fungus, rust scales, loose paint, etc.). Should any solvents be used i.e. bleach, soap etc. the area shall be thoroughly washed with water, so as to remove all contaminating solvents.

Areas to be washed include, but are not limited to on all buildings:-

- building walls (block work & vent blocks) , doors, windows & glazing, parapets, mouldings & copings, Corridor ceilings & soffits, fabricated steel works, wrought iron burglar proofing, building apron slabs, concrete roof gutters, metal guttering & brackets, storm water pipes, roof & wall flashings, timber roof framing, timber doors, building rails & hand rails, fabricated pipe truss & columns,

- a. Block A, B, C, D, E, F, G,
 - b. Security Booths (2 Nr.)
 - c. Electrical Kiosk
2. After power washing, if there is any area where the paint is not completely removed, grind off all remaining paint (using a mechanical grinding machine); then apply water proofing Barrier sealer to all exposed wall surfaces. Two coats of paint shall be applied to these areas (*measured separately*).

3. Repair any cracks, penetrations, unfinished rendering, spawling, damaged flashings, copings, parapet walls, mouldings, imperfections and fill holes as required on buildings.
4. Prior to painting all concrete wall surfaces is to be rendered smooth if there are any rough or uneven surfaces.
5. Remove pipes, conduits and cables etc., that are unwanted. These are to be identified on the site visit.
6. Any damaged areas in the ceiling shall be repaired by the successful contractor before repainting.
7. All rusted steel works shall be cleaned by wire brushing and / or mechanical grinding. The Contractor must undertake all necessary structural and / or mechanical repairs required on the damaged steel works. The areas shall then be primed with RUST Protection primer.

Areas to be painted include, but are not limited to on all buildings:-

- building walls (block work & vent blocks) , doors, windows & glazing, parapets, mouldings & copings, Corridor ceilings & soffits, fabricated steel works, wrought iron burglar proofing, building apron slabs, concrete roof gutters, metal guttering & brackets, storm water pipes, roof & wall flashings, timber roof framing, timber doors, building rails & hand rails, fabricated pipe truss & columns,
 - d. Block A, B, C, D, E, F, G,
 - e. Security Booths (2 Nr.)
 - f. Electrical Kiosk
8. Two coats of Rustoleum or EQUAL rust protection must be applied to all exposed metal surfaces and finished with Two (2) coats of Low Sheen OIL Paint as per *Mater Painter Institute – Master Painting specification*
 9. Two (2) coat of Non Drip ceiling paint shall be applied to the ceiling; except for stained areas which shall be patch painted. During application the contractor shall strive to achieve a mil thickness of 3 to 5 mils as per *Mater Painter Institute – Master Painting specification*.
 10. Apply two coats of low sheen emulsion paint to walls. (Colour to be chosen by the client). During application the contractor shall strive to achieve a mil thickness of 3 to 5 mils as per *Mater Painter Institute – Master Painting specification*.

11. Make good any and all damages occasioned by the said works at no cost to the UTT.

12. Clean area and dispose of all debris in an environmentally friendly manner.

NOTE: *Additional requirements will be given and explained at the site visit.*

Technical Specification, please refer to: Master Painter Institute – Master Painter Maintenance repainting Procedure document.

Approximate Square meter area to be painted: **SEE APPENDIX TWO**

All area measurements stated (in the tables above) must be remeasured and verified by all the Bidders; at the site.

NOTES:

- Cover all furniture, equipment and floor during painting operations to prevent spills where applicable.
- All Air Conditioning units must be protected during the Works; at all times.
- Be sure to properly agitate paints prior to use.
- Due care should be exercised in the use and disposal of all containers used in this project so as not to contaminate the environment.
- All paint brushes or rollers should be new and free from All contamination i.e. paint residue from prior use, any type of solvents (kerosene, gas, thinner other than that stipulated in this scope).
- Extreme care should be exercised during the application and use of solvents, as they are flammable. Smoking is STRICTLY PROHIBITED.
- Solvent cleaner shall be used to clean brushes/rollers.
- Prior to the application of paints the area will be re-inspected by the client's representative to ensure that it is free of all debris.
- All supplies required shall be supplied by the contractor.
- Relevant OSHA standards shall apply.

CONTRACTOR RISK ASSESSMENT FORM

Form must be completed by contractor and returned with tender submission

Job:	Name:	Duration of contract:
Contractor:	Position:	Working hours:

Itemize HSE* hazards/ Risks involved in Job/Task	Measures to be undertaken by contractor to control HSE* hazards/ Risks

* - HSE represents health, safety and environment.

Contractor Signature: <div style="border-bottom: 1px solid black; width: 250px; margin-left: auto;"></div>	Date: <div style="border-bottom: 1px solid black; width: 100%;"></div>
University Authorized Signature: <div style="border-bottom: 1px solid black; width: 250px; margin-left: auto;"></div>	Date: <div style="border-bottom: 1px solid black; width: 100%;"></div>

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Appendix TWO: Approximate BUILDING AREAS (by class of material)

	Masonry Works						Ceiling		Metal Works				PVC down pipes (Meters)	wood doors M2	Window panes & frames M2	Total Area M2
	Wall Area M2	Parapet Area M2	High Level Beams Area M2	Column Areas M2	Vent blocks Area M2	edges (150 mm wide) Meters	Ceiling Area M2 - Hard Board	Ceiling Area M2 - Concrete	Metal Doors & frames Area M2	Metal Handrails & RHS Columns	Guttering Area M2	Trusses & Poles (Meters)				
Block A	2250	52	60		50		125	200	105	130				10	65	3047
Block B	400	20	20	64	100			303	40	100				10	10	1067
Block C	1690	60	100	275	77		316	613	30	410				63		3634
Block D	550	30							50	20			15	30	125	820
Block E	790	60	93				253		145	90	58	60	90		12	1651
Block F	890	60	93				253	100	100	90	58		90			1734
Block G	730				30					88				14	11	873
Service buildings- MTS stores, Kiosk Room / Transformer room, Fin walls, Man Hole boxes, Concrete Curbs, etc.	120	60			30	620			43	36	30		30	20	60	1049
	7420	342	366	339	287	620	947	1216	513	964	146	60	225	147	283	13875
	9374						2163		1683							

TECHNICAL SPECIFICATION : PAINTING AND DECORATING

6.1 **Generally**

All materials used, unless otherwise stated shall be anti-fungus and approved by the Architect.

Supply paints on site in sealed cans and all thinning, mixing etc., shall be in accordance with the manufacturer's instructions. Produce vouchers as and when required by the Architect to prove to his satisfaction that all materials supplied are genuine and as specified herein.

6.2 **Brand names**

The paints which are acceptable in these Works are those locally manufactured and approved by the Architect. Prepare surfaces and apply paints in strict accordance with the specification of the manufacturer of the brand approved.

6.3 **Approved paints**

All paints and clear finishing materials shall comply with all current relevant British standards and shall be approved by the Architect prior to order.

6.4 **Container Sizes**

Obtain coating materials other than spray, bituminous and fine textured masonry paints in containers with a maximum capacity of 5 litres.

6.5 **Finishing Systems**

Obtain all coats of each system from the same supplier.

6.6 **Metal priming paints**

ETCHING PRE-TREATMENT PRIMER: for galvanised surfaces.

ZINC PHOSPHATE PRIMING PAINT (LOW LEAD): for general use.

6.7 **Emulsion paint**

Acrylic latex; satin finish; with additive to resist moulds, fungus and mildew; finished surface capable of being washed without deterioration. Externally, eggshell finish emulsion paint: exterior quality; Weather guard emulsion

6.8 **Oil paints**

Long oil Modified Alkyd; Dry Film Thickness 76.2 microns/ 3.0mils; Finish Gloss.

6.9 **Exterior Masonry Finish (paint to walls):**

Exterior quality mould resistant, UV resistant ACRYLIC emulsion paint as described above

6.10 **Generally**

The Contractor must allow for providing the Engineer with colour charts from the approved firm and or executing sample panels as required.

All materials shall be delivered on site intact in the original drums or tins and shall be mixed and applied strictly in accordance with the manufacturer's instructions and to the approval of the Engineer.

The only addition which will be allowed to be made locally will be liquid thinners and dryers supplied or recommended by the manufacturers and none shall be thinned more than approved by the Engineer.

The priming undercoats and finishing coats shall each be of differing tints; priming and undercoats shall be of the correct types and tints to suit the respective finishing coats in accordance with the manufacturer's instructions. All finishing coats shall be of colours and tints selected by the Engineer. The paint work shall have an enamel finish and all paint for external work shall be of exterior quality only.

Each coat of paint shall be properly dry and shall be well rubbed down with fine glass paper before the next coat is applied. The paint work shall be finished smooth and free from brush marks.

Cards of all paints, etc., shall be submitted to and samples prepared for the approval of the Engineer before leaving on and such samples, when approved, shall become the standard for the work.

Approval of sample areas: obtain approval of representative sample areas of each type of coating before carrying out the remainder of the work.

The Contractor shall so arrange his programme of work in order that all other trades are completed and away from the area to be painted when the painting begins.

Prices of paints, etc., shall include for preparation of surfaces, rubbing down between each coat, stopping, knotting, etc., and all other work in connection as described and as necessary to obtain a first class and proper finish. Should the description stated in

the items of the Bills of Quantities be insufficient in the Contractor's or sub-Contractor's opinion to obtain such a finish, the Contractor must allow in his prices for such extra coats, materials or work necessary to obtain such a finish to the Engineer's approval.

Prices must include for the provision of all necessary scaffolding, plant and tools.

Pipework and Services Components: finish in with surface to which pipes are fixed unless otherwise directed by the S.O.

The prices for decoration are to include for doing so behind items of equipment requiring prior temporary fixing for installation purposes e.g. sanitary fittings, heaters, air-conditioners, etc., and any charge for taking down or refixing of such equipment for decoration shall be borne by the Contractor.

6.11 **Compatibility**

Check that all materials to be used are recommended by their manufacturers for the particular surface and conditions of exposure, and that they are compatible with each other.

Inform S.O. of any discrepancy in specification of coatings and obtain instructions before proceeding with application.

6.12 **Ancillary Surfaces**

The descriptions of areas to be coated given in schedules, etc. are of necessity simplified. All ancillary exposed surfaces and features are to be coated to match similar or adjacent materials or areas except where a fair faced natural finish is required or items are completely prefinished. In cases of doubt obtain instructions before proceeding.

6.13 **Off Site Work**

All off site preparation and coating to be carried out under cover in a suitable environment with adequate lighting.

Store all items, both before and after coating, in a clean, dry area protected from the weather and mechanical damage, properly stacked with spaces to permit air circulation and prevent sticking of surfaces.

6.14 **Testing of Viscosity, etc.**

The S.O. may, at his discretion, take samples of materials from each manufacturing batch as follows:

- a) Unopened tins, or samples from previously unopened tins, for submission to manufacturer for comparison with manufacturer's own retained samples from the same batch.
- b) Unopened tins, or samples from previously unopened tins, as a control sample for assessment of samples taken from painters' kettles.

c) Samples from painters' kettles for submission with control sample to manufacturer and/or independent testing laboratory for comparative testing.

6.15 Storage Generally Store all materials:

- a) in a clean dry area protected from extremes of temperature;
- b) so that they can readily be used in order of delivery.

6.16 Storage of Flammable Products

Where the total quantity of flammable paints exceeds 50 litres store in:

- a) metal lockers; or
- b) detached store of non-combustible construction; or
- c) a well ventilated room of fire resisting construction and display 'No Smoking' signs.

PREPARATION AND PRIMING OF SURFACES

6.17 Preparation Generally

- Comply with BS 8000: Part 12, Section 2 and additional requirements in this specification.
- When removing or partially removing coatings, use methods which will not damage the substrate or adjacent surfaces or adversely affect subsequent coatings.
- Materials used in preparation to be types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared.
- Apply oil based stoppers/fillers after priming. Apply water based stoppers/fillers before priming unless recommended otherwise by manufacturer. Patch prime water based stoppers/fillers when applied after priming.
- Ensure that doors and opening windows, etc., are 'eased' as necessary before coating. Prime any resulting bare areas.

6.18 Preparing New Masonry, Concrete, Plaster and Render

- a) remove mortar and plaster splashes, nibs, loose and flaking material;
- b) remove surface salts with a stiff fibre brush, repeating after 48 hours if necessary;
- c) fill all holes and surface imperfections with a suitable non-shrink filler;
- d) remove release agents with weak detergent solution, rinsing afterwards.

All such surfaces which are to be finished with oil or enamel paint shall be primed with two coats of alkali-resisting primer.

6.19 Metalwork

Surfaces shall be thoroughly wire brushed to remove all scale, rust, etc. Where severe rust exists, a special anti-rust primer must be used.

6.2 Galvanised metalwork

Surfaces shall be thoroughly weathered, brushed down with white spirit and given one coat of calcium plumbate primer.

6.21 Copper and Aluminium

Surfaces shall be etched with fine emery paper and white spirit washed down and given one coat of zinc chromate primer.

6.22 Fixtures

Before commencing work, remove the following fixtures and fittings, set aside and replace on completion: Ironmongery Coverplates Grilles, clocks, equipment.

Joints to be filled, taped and feathered out using materials recommended by manufacturer.

6.23 Painting _Generally

Comply with BS 8000:Part 12, Section 3.2 and additional requirements in this specification.

6.24 Priming Generally

Apply priming coats by brush unless other methods are specifically permitted and:

APPLICATION

- a. work primer into surface joints, angles and end grain;
- b. prime surfaces of joinery that will be hidden from view before joinery is fixed in position.
- c. ensure that priming coats are of adequate thickness especially on sharp edges. Thin slightly if necessary to suit surface porosity;
- d. ensure that any primed surfaces which have deteriorated on site or in transit are cleaned and touched up or rubbed down and reprimed.

6.25 Surface Preparation Between Coats

- a) lightly rub down priming and undercoats with abrasive paper to remove surface nibs;
- b) dust off before applying next coat;
- c) do not rub down lead based primers;
- d) avoid reducing film thickness.

6.26 Cleanliness

- a) keep all brushes and equipment in a clean condition;
- b) clean brushes and equipment before using for differing materials;
- c) keep surfaces to be decorated clean at all times while work is proceeding.
- d) Practice good housekeeping of the work site at all times; allowing for cleaning of work areas at the end of each work day.

6.27 Metallic Paint Covering Rate

Avoid excessive brushing out. Coverage must not exceed 18 m² per litre.

6.28 Protection

Cover up all Windows, Doors, Openings, etc., with sheets or Polythene when executing all Power Washing and Preparation work.

Cover up all floors, Corridors, Stairs, etc., etc., with sheets or Polythene when executing all painting and decorating work.

Properly secure all paint works areas to avoid all nuisances of paint fumes, splashes, etc which may occur during application of the paint.

6.29 ***Clean and touch up***

Paint splashes, spots and stains shall be removed from floors, corridors, window panes & frames, woodwork, etc., and damaged surfaces touched up and the whole of the work left clean and perfect upon completion.

6.3 ***Unsuitable Conditions***

Do not apply coatings:

- a) to surfaces affected by damp or substrates which are not dry;
- b) when heat is likely to cause faults to develop;
- c) when airborne dust is likely to spoil wet paint;
- d) when condensation is likely to occur before paint is touch dry;
- e) Externally when rain is likely to affect the paint.

6.31 ***Completion***

Ensure that opening lights and other moving parts move freely. Remove all masking tape and temporary coverings.

6.32 ***Pricing***

Prices of Painting and Decorating are to include for the following:

- (a) All considerations arising from the Specification.
- (b) Varying colours in areas in accordance with the Architect's colour schemes.
- (c) Preparing fairly large sample panels of finishing colours as and when directed by the Architect.

Master Painter Institute- Maintenance Repainting Procedure

1. UTT personnel are required to inspect ALL areas and approve, in writing, of prepared surfaces prior to the application of paints.
2. Colours shall be as selected by the UTT from a manufacturer's full range of colours. Refer to the Finish Schedule for identification and location. If there are any queries or missing components to paint schedule found during the execution of the works the contractor is to issue a formal Request For Information (RFI) to the UTT.
3. UNLESS specifically pre-approved by the specifying body, Paint Inspection Agency and the applied product manufacturer, perform no exterior repainting work when the ambient air and substrate temperatures are below 50° F (10° C).
4. Perform no exterior repainting work unless environmental conditions are within MPI and paint manufacturer's requirements or until adequate weather protection is provided. Where required,

suitable weather proof covering and sufficient heating facilities shall be in place to maintain minimum ambient air and substrate temperatures for 24 hours before, during and after paint application.

5. Perform no exterior repainting work when the relative humidity is above 85% or when the dew point is less than 5° F (3° C) variance between the air / surface temperature.
6. Perform no exterior repainting work when the maximum moisture content of the substrate exceeds:
 - a. 12 % for concrete and masonry (clay and concrete brick / block).
 - b. 15% for wood.
7. Apply paint only to dry, clean, and adequately prepared surfaces in areas where dust is no longer generated by construction activities such that airborne particles will not affect the quality of finished surfaces.

CONDITION OF SURFACES:

8. Prior to commencement of repainting work, thoroughly examine (and test as required) all exterior conditions and surfaces scheduled to be repainted and report in writing to the UTT any conditions or surfaces that will adversely affect work of this section.
9. The degree of surface deterioration (DSD) shall be assessed using the assessment criteria indicated in the MPI(Master Painters Institute) Maintenance Repainting Manual. In general the MPI DSD ratings and descriptions are as follows:

Condition	Description
DSD-0	Sound Surface (may include visual (aesthetic) defects that do not affect film's protective properties).
DSD-1	Slightly Deteriorated Surface (may show fading; gloss reduction, slight surface contamination, minor pin holes scratches, etc.) / Minor cosmetic defects (runs, sags, etc.).
DSD-2	Moderately Deteriorated Surface (small areas of peeling, flaking, slight cracking, staining, etc.).
DSD-3	Severely Deteriorated Surface (heavy peeling, flaking, cracking, checking, scratches, scuffs, abrasion, small holes and gouges).
DSD-4	Substrate Damage (repair or replacement of surface required by others).

10. Other than the repair of DSD-1 to DSD-3 defects included under this scope of work, structural and DSD-4 substrate defects discovered prior to and after surface preparation or after first coat of paint shall be made good and sanded by others ready for painting.
11. No repainting work shall commence until all such DSD-4 adverse conditions and defects have been corrected and surfaces and conditions are acceptable to the UTT. Contractor to be responsible to see that all surfaces are properly prepared before any paint or coating is applied.

PREPARATION OF SURFACES:

12. Prepare all exterior surfaces for repainting in accordance with MPI Repainting Manual requirements. Refer to the MPI Repainting Manual in regard to specific requirements for the following:
 - a. environmental conditions.
 - b. rust stain removal
 - c. mildew removal
 - d. asphalt surfaces
 - e. vertical and horizontal concrete surfaces
 - f. clay and concrete masonry units
 - g. structural steel and miscellaneous metals
 - h. steel exposed to high heat
 - i. galvanized and zinc coated metal
 - j. aluminium and copper surfaces
 - k. dimension and dressed lumber
 - l. wood doors
 - m. stucco
13. Where required, pressure wash exterior surfaces prior to repainting in accordance with MPI standards for type of surfaces and recommended pressures to ensure complete removal of all loose paint, stains, dirt, and other foreign matter. This work shall be carried out only by qualified tradesman experienced in pressure water cleaning. The use of water hose cleaning will not be considered satisfactory, unless specifically specified. Allow sufficient drying time and test all surfaces using an electronic moisture meter before commencing work.
14. Sand, clean, dry, etch, neutralize and/or test all surfaces under adequate illumination, ventilation and temperature requirements.
15. Remove and securely store all miscellaneous hardware and surface fittings / fastenings (e.g. electrical lights, mechanical louvers, door and window hardware (e.g. hinges, knobs, locks, trim, frame stops) and, removable hazard / instruction labels. from wall and soffit surfaces, doors and frames, prior to repainting and replace upon completion. Carefully clean and replace all such items upon completion of repainting work in each area. Do not use solvent or reactive cleaning agents on items that will mar or remove finishes (e.g. lacquer finishes). Doors shall be removed before repainting to paint bottom and top edges and then re-hung.
16. Protect all exterior surfaces and areas, including landscaping, walks, drives, all adjacent building surfaces (including glass, aluminium surfaces, etc.) and equipment and any labels and signage from repainting operations and damage by drop cloths, shields, masking, templates, or other suitable protective means and make good any damage caused by failure to provide such protection.

APPLICATION:

2. Do not commence repainting unless substrates and all environmental conditions are acceptable for the application of products.

3. Apply primer, paint or stain in a workmanlike manner using skilled and trade qualified applicators as noted under Quality Assurance.
4. Apply primer, paint or stain within an appropriate time frame after cleaning and preparation to prevent weathering or water staining of substrate or before environmental conditions encourage flash-rusting, rusting, contamination or when the manufacturer's paint specifications require earlier applications.
5. Primer, paint or stain coats specified are intended to cover surfaces satisfactorily when applied at proper consistency and in accordance with manufacturer's recommendations.
6. Do not apply finishes on exterior surfaces that are not sufficiently dry. Unless manufacturer's directions state otherwise, each coat shall be sufficiently dry and hard before a following coat is applied.
7. To avoid air entrapment in applied coats, apply materials in strict accordance with manufacturer's spread rates and application requirements.

FIELD CONTROL/STANDARD OF ACCEPTANCE:

8. All surfaces, preparation and paint applications shall be inspected.
9. Repainted exterior surfaces shall be considered to lack uniformity and soundness if any of the following defects are apparent to the Painting Inspection Agency inspector:
 - a. brush / roller marks, streaks, laps, runs, sags, drips, heavy stippling, hiding or shadowing by inefficient application methods, skipped or missed areas, and foreign materials in paint coatings.
 - b. evidence of poor coverage at rivet heads, plate edges, lap joints, crevices, pockets, corners and re-entrant angles.
 - c. damage due to touching before paint is sufficiently dry or any other contributory cause.
 - d. damage due to application on moist surfaces or caused by inadequate protection from the weather.
 - e. damage and/or contamination of paint due to windblown contaminants (dust, sand blast materials, salt spray, etc.).
10. Repainted exterior surfaces shall be considered unacceptable if any of the following are evident under natural lighting conditions:
 - a. Visible defects are evident on vertical surfaces when viewed at 90 degrees to the surface from a distance of 1000 mm (39").
 - b. Visible defects are evident on horizontal surfaces when viewed at 45 degrees to the surface from a distance of 1000 mm (39").
 - c. Visible defects are evident on soffit and other overhead surfaces when viewed at 45 degrees to the surface.
 - d. when the final coat on any surface exhibits a lack of uniformity of sheen across full surface area

11. Repainted surfaces rejected by the inspector shall be made good at the expense of the Contractor. Small affected areas may be touched up; large affected areas or areas without sufficient dry film thickness of paint shall be repainted. Runs, sags of damaged paint shall be removed by scraper or by sanding prior to application of paint.

PROTECTION:

12. Protect all newly repainted exterior surfaces from rain and snow, condensation, contamination, dust, salt spray and freezing temperatures until paint coatings are completely dry. Curing periods shall exceed the manufacturer's recommended minimum time requirements.
13. Erect barriers or screens and post signs to warn, limit or direct traffic away or around work area as required.

CLEAN- UP:

14. Remove all paint where spilled, splashed, splattered or sprayed as work progresses using means and materials that are not detrimental to affected surfaces.
15. Keep work area free from an unnecessary accumulation of tools, equipment, surplus materials and debris.
16. Remove combustible rubbish materials and empty paint cans each day and safely dispose of same in accordance with requirements of authorities having jurisdiction.
17. Clean equipment and dispose of wash water / solvents as well as all other cleaning and protective materials (e.g. rags, drop cloths, masking papers, etc.), paints, thinners, paint removers/strippers in accordance with the safety requirements of authorities having jurisdiction
18. The UTT will not allow any disruption to its operations, and any activity or activities that may cause disruption shall be done at a mutually convenient time.
Hours of operation (classes) - Mon. to Fri. 8:00 a.m. - 9:00 p.m.
- Sat. 8:00 a.m. - 4:00 p.m.
 - Schedule repainting operations to prevent disruption of and by other trades when applicable.
 - Obtain written authorization from Consultant / Owner for changes in work schedule.
19. Contractors must provide with their proposal a detailed work schedule. The work schedule should include, but not be limited to, mobilisation, activities, duration and completion. All schedules shall be accompanied by detailed work methodologies.
20. The Material Safety Data Sheets shall be provided for ALL chemicals / solvents required to carry out the above works.
21. The contractor is required to adhere to all the relevant OSH Act requirements, UTT security policies and procedures. The work may be stopped if the contractor fails to comply with UTT's Safety and Security rules. In the event that any part of the work is stopped for breach of the safety and security rules, the contractor shall implement measures to recover the work programme. All extra costs of any recovery work programme shall be for the contractor's account.

Quotations are to include price, duration and any or all assumptions made, and items discussed at the site visit. Quotation shall state whether value added tax is included in the price, or if it is applicable.

In view of the above, the contractor shall read the scope of works and drawings carefully in order to precisely determine all the materials that are necessary to complete the works. He should also visit the site to ascertain the nature of the work to be done and the condition of the site.

Consequently, at the time of opening the tender, the contractor would be presumed to be thoroughly familiar with the project and to have satisfied himself as to the nature and the extent of the work involved and all other points which may in any way affect the price inserted in his tender.