

QUOTATION FOR EXTERNAL PLASTERING AND  
PAINTING WORKS AT SAN LAWRENZ PRIMARY  
SCHOOL, GOZO (COMPLIANT WITH THE GPP  
CRITERIA)

**IMPORTANT NOTE:**

- **Participation Fee is Free**
- No Bid Bond is requested for this quotation
- Bidders are bound by their offers as per the period stated in article 3 in “QUOTATION FORM”.
- Clarifications issued after the publication of quotation will be uploaded on the FTS website: [www.fts.com.mt](http://www.fts.com.mt) under the respective quotation number.



FOUNDATION FOR TOMORROW'S SCHOOLS

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2014



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**Quotation No: FTS Q 11-14**

Sealed quotations will be received up to 11.00 a.m. at this office (Foundation for Tomorrow's Schools, Sir Adrian Dingli Street, Pembroke) on 18<sup>th</sup> July 2014 for external plastering and painting works at San Lawrenz Primary School, Gozo (Compliant with the GPP Criteria)

The quotation shall not be considered unless:

- a. it is received at the Foundation for Tomorrow's Schools' Office, Sir Adrian Dingli Street, Pembroke, Malta on or before the date and hour fixed above;
- b. it is made on the prescribed form which contains the conditions of contract;
- c. (i) in the case of a registered Company, it is signed by a person or persons duly authorised to act on behalf of the Company;  
(ii) in all other cases it is signed by the party tendering;
- d. the postal address, telephone number and age of the individual (where applicable) are stated in the quotation document.

The successful bidder shall, where the conditions of quotation so specify, call to sign the contract where and when required to do so. The contract fees shall be borne by the successful bidder. The bidder / company whose offer is accepted shall incur a penalty equal to one (1%) per cent of the estimated value of the contract should he/she fail to call either personally or by proxy to sign the contract for two consecutive times when requested to do so. Moreover, if the said bidder fails to furnish information and/or documents necessary for the drawing up of the contract, this shall be construed as unwillingness on the part of the bidder to sign the quotation, and shall render the signatory of the quotation personally responsible and liable to the penalty aforesaid. This notwithstanding, the said bidder shall remain responsible to carry out his obligations under the agreement and may be compelled to carry out such obligations under the conditions governing the contract and shall be subject to the penalties specified in those conditions although a formal contract was not executed.

Bidders shall not retract or withdraw their offers for the period specified in the relative Form 1. During this period, which shall commence from the date of expiration of the time fixed for the presentation of quotations, the quotations shall remain binding and may be accepted at any time.

CHAIRPERSON – FOUNDATION FOR TOMORROW'S SCHOOLS



## QUOTATION FORM

1. With reference to Quotation No. Q 11-14 published in the Government Gazette by the Foundation for Tomorrow's Schools on the 27<sup>th</sup> June 2014, and in terms of the conditions therein mentioned and those thereto attached, I / We <sup>[A]</sup>

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(name of individual or firm making the quotation; to be entered in BLOCK LETTERS)

offer to:

- (i) supply and deliver to store or site of works in Malta.
  - (ii) erect, complete hand over in working order and thereafter maintain as directed by the Head of Department, all charges paid including Customs Import Duty, VAT, Eco Contribution, levies and any other charges as applicable, and insured against any risks, the articles enumerated on the attached Schedule, at the prices stated on the same.
- 2a. I/We further offer to undertake **to commence works within five (5) working days from the date of the Acceptance of Quotation of my/our quotation issued in writing.**
- 2b. **In addition, we offer to undertake to complete the works within a further three (3) calendar weeks.**
3. I/We undertake that this quotation shall not be retracted or withdrawn for a period of **Forty-Five Calendar Days** from the date of expiration of the period fixed for its delivery, inclusively but shall remain binding and may be accepted by the Government at any time during the said period of **Forty - Five Calendar Days.**

**NAME OF INDIVIDUAL / COMPANY** \_\_\_\_\_

**ADDRESS** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**TELEPHONE NUMBER** \_\_\_\_\_

**FAX NUMBER** \_\_\_\_\_

**V.A.T. REG. NO.** \_\_\_\_\_

**SIGNATURE** \_\_\_\_\_

**DATE** \_\_\_\_\_

[A] In the case of quotation from a company, the name of the company and the date of registration in conformity with the Companies Act of 1995 or analogous of the country where the company is registered is to be indicated. The person signing the quotation should be and is considered to be fully authorised to act on behalf of the company for all purposes relating to the quotation.

(\*) Delete where not applicable.



### **TERMS AND CONDITIONS**

1. Prospective bidders shall download and print the quotation document from the FTS website: [www.fts.com.mt](http://www.fts.com.mt) under the heading "Quotations" and the respective quotation number.
2. The prices shall be quoted in **Euro Currency** and shall include the cost of delivery to store or site as indicated, all charges paid, inclusive of VAT., ECO Contribution and all other charges as may be applicable.
3. **From the closing date fixed for the receipt of quotations submitted prices shall remain binding for the period as stated in article 3 of "Quotation - Form 1"**
4. In the event that further orders are required by the Foundation we reserve the right to utilise the rates quoted by the successful bidder, which shall remain valid for a period of six (6) months from the acceptance of quotation.

#### **5a Technical Literature to be submitted with the quotation document**

Item	Description	Reference in Technical Specifications
1.1	Stone Stabilising Solution	Spec 10
1.2	GR 1000 or equivalent	Spec 10
1.3	External Paint	Spec 11

The literature submitted will remain property of the FTS and no claims for the cost of literature will be accepted by FTS.

6. Quotations are **only** accepted in whole.
7. Delivery Periods and Penalty for Delay:
  - (i) Goods ex-local stock must be delivered as per Form 1 clauses 2a and 2b from the date of receipt of the acceptance of quotation.
  - (ii) Where items can only be supplied ex-foreign stock, the delivery date must be indicated.
  - (iii) A penalty of 1% per calendar day of the value of the order may be inflicted for late delivery.
  - (iv) The Foundation also reserves the right to cancel any order awarded and not honoured within the delivery date indicated by contractor.
8. Any unsatisfactory service such as failure to meet orders either partially or in their entirety or failure to deliver goods in time will be recorded in Suppliers' Performance Records.
9. Unless otherwise stated the goods offered and supplied must be brand new, unused and free from apparent and inherent defects.
10. Successful bidders shall be bound to conform in all respects with VAT legislation and regulations.
11. The Foundation is not bound to accept any quotation and shall not give reasons for the acceptance or rejection of any particular offer.
12. Any instance of alteration or modification (not using the original downloaded document) of quotation documents used in the submission of a quotation result in disqualification.



The Chairman FTS, shall make any variation of the form, quality or quantity of the Works or any part thereof that, may in his opinion be necessary for that purpose or if for any other reason it shall, in his opinion be appropriate, the FTS shall have the authority to instruct the Contractor to do and the Contractor shall do any of the following:

- a) increase or decrease the quantity of any materials / work included in the Contract.
  - b) omit any such work
  - c) execute additional work of any kind necessary for the completion of the Works with a written approval from the Chief Finance Officer of the FTS.
  - d) change any specified sequence or timing of delivery of any part of the Works
  - e) No such variations shall in any way vitiate or invalidate the Contract. Provided that where the issue of an instruction to vary the Works is necessitated by some default of or breach of contract by the Contractor or for which he is responsible, any additional cost attributable to such default shall be borne by the Contractor.
  - f) The Contractor shall not make any variations without written instructions by the Chief Finance Officer of the FTS.
13. The Contractor shall be responsible to coordinate and dovetail his work with that of the sub-contractors. In case of problems which occur and which affect the quality and progress of works, these shall be referred immediately to the Architect / Engineer-in-Charge and a meeting held with the parties concerned to find a solution.  
The decision of the Architect / Engineer-in-Charge in such matters shall be final.
- 13 (i) Should the contractor from any cause whatever, become unable or fail to carry in the contract with efficiency; or should he not progress with the work in the manner intended by the contract, or not have the work ready for delivery in conformity with the terms of the contract; or should his preparations for commencement and his subsequent rate of progress be slow, from any cause whatever, that, in the opinion of the Head of Department he will be unable to complete and deliver the work by the expiration of the specified period; or should he refuse or neglect to comply with the directions given by the Head of Department or in any other respect act contrary to the terms of the contract, then the Government shall have the power to declare the contract at an end, and the Contractor shall only be paid for such portion of the work as shall have been actually delivered at the date of such declaration, after deduction of any sum liable under the conditions of such declaration will be valued by the Head of Department which valuation after being approved by the Government, and subject to any deduction liable under the conditions of the contract, shall be final.
- 13 (ii) The contractor shall, in addition, be liable to pay to the Government shall be entitled to further deduct the value of any expense, loss or damage (including any difference between the contract price of the work to be done, under the contract, or of such portion thereof as may, not have been delivered at the date of such declaration as aforesaid, and the price which the Government may have to pay for similar work provided in lieu of such portion as may not have been so delivered) which the Government may be put to or sustain by reason of, or in connection with the Contractor's breach of contract.

Name of Individual / Company \_\_\_\_\_

Signature of Individual / Company \_\_\_\_\_ Date: \_\_\_\_\_



## Bidders Declaration in respect of Green Public Procurement

### Important Note:

Bidders must submit this form with their offer duly signed.

### Green Public Procurement - Paint

I/we hereby declare that as part of the GPP Criteria the following materials/substances will not be used in the building:

- Products which contain sulphur hexafluoride (SF6).
- Indoor paints and varnishes<sup>1</sup> with a content of solvents (volatile organic compounds (VOCs) with a boiling point of 250° C maximum) higher than:
  - o For wall paints (according to EN 13300): 30 g/l (minus water).
  - o For other paints with a spreading rate of at least 15 m<sup>2</sup>/l at a hiding power of 98% opacity: 250 g/l (minus water).
  - o for all other products (including paints that are not wall paints and that have a spreading rate of less than 15m<sup>2</sup>/l, varnishes, wood stains, floor coatings and floor. paints, and related products): 180g/l (minus water).

Signature: .....

*(the person or persons authorised to sign on behalf of the tenderer)*

Date: .....



## Specifications





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**10 SPECIFICATION FOR RENDERING, PLASTERING AND POINTING****10.1 COMPLIANCE – TESTING AND CERTIFICATION**

- 10.1.1 Compliance shall be demonstrated through testing and/or certification of products and/or processes as outlined in the ensuing clauses.
- 10.1.2 The Contractor may be required to prepare sample applications of the renders, pointing and paint on a variety of substrates for final approval before the start of the Works.

**10.2 GENERAL**

- 10.2.1 Mortar for plastering and rendering shall comply with EU Directive 89/106/EEC as implemented by the relevant decision.
- 10.2.2 Workmanship shall be in accordance with BS 8000: Part 10: 1989, Workmanship on Building Sites, Plastering and Rendering.
- 10.2.3 Rendering and Plastering mortar shall comply with EN 998-1 – Classification GP (General Purpose).
- 10.2.4 The testing of rendering mortars shall comply with EN 1015.

**10.3 SUBSTRATES**

- 10.3.1 Existing substrates to be rendered shall be sound, free from loose areas and significant cracks or gaps, free from deteriorating, damp or unsuitable material, cleaned of loose mortar, fins, grease, dirt, efflorescence, mould or dust.
- 10.3.2 All cutting, chasing, making good, fixing of conduits and surface outlets shall be completed. Surface flatness/regularity shall be within the specified tolerance limits.
- 10.3.3 Existing substrate surfaces, and rendered surfaces to receive further coats of rendering, shall have an appropriately rough surface to achieve a good key. The surfaces shall be open textured, scratched or nail-floated, and shall be sufficiently mature before a subsequent layer is applied.
- 10.3.4 Existing substrate surfaces, and rendered surfaces to receive further coats of rendering, shall have an appropriately rough surface texture to achieve a good key. The surfaces shall be sufficiently mature before a subsequent layer is applied.
- 10.3.5 Where indicated in the Drawings and BOQ existing substrate surfaces composed of natural franka stone shall be preliminary treated with a proprietary synthetic fixative resin.
- 10.3.6 Dubbing out shall be used to correct substrate inaccuracies. Dubbing out in



smooth dense concrete shall be prohibited. The thickness of any dubbing coat shall not exceed 16mm, and the maximum overall thickness of any dubbing shall not exceed 20mm. The dubbing coat shall be mixed as an undercoat and shall be applied to achieve a firm bond. Each dubbing coat shall be allowed to set sufficiently before the next coat is applied. The surface of each coat shall be cross-scratched or combed to provide a good key.

- 10.3.7 Services chased into the substrate shall be isolated from the coating by covering with metal lathing fixed at staggered centres along both edges, to prevent cracking over conduits and other services.
- 10.3.8 Substrate shall be damped down, just sufficiently to ensure uniform absorption, before the first coat is applied and as the work proceeds. Rendering in areas subjected to prolonged direct sunlight shall be avoided. Scaffolding works shall be erected such that there are no putlog holes and other breaks in render coats.
- 10.3.9 Rendering shall be applied after the installation of sub-frames for the apertures in external walls, and shall be applied flush against such sub-frames.

#### **10.4 PRESCRIBED CEMENT - BASED MORTAR**

- 10.4.1 Prescribed cement-based mortar shall consist of the application of a mortar containing portland cement and sand, in prescribed proportions, to the external or internal surface of the building, in one or more layers.
- 10.4.2 The mix proportions for cement-based renderings shall normally conform to BS 5262, Code of Practice for External Renderings and BS 5492, Code of Practice for Internal Plastering.
- 10.4.3 Cement, for use in mortar shall conform to BS EN 197-1 CEM 1/42.5.
- 10.4.4 Sand for use in cement based mortar shall comply with BS EN 13139. Sand shall have a grading characteristic suitable for the required texture.
- 10.4.5 For the ***Finishing Coat***, the grade shall be adjusted to suit the type of finish indicated in the Drawings or BOQ. For smooth, textured finishes, it may be necessary to remove the coarser particles, whilst for the scraped texture finish, a larger proportion of coarser material may be retained.
- 10.4.6 Water shall be clean and fresh, entirely free from oil, acid, alkali, vegetable or organic matter, or any other deleterious substance in suspension or in solution or as sediment.
- 10.4.7 Cement-based mortar may incorporate additives (eg. air-entrainers) conforming to BS EN 934, and compatible with the other mortar constituents. The use of calcium chloride, or additives containing calcium chloride, is prohibited. These shall be submitted for the approval of the



Project Manager, accompanied by full technical literature.

- 10.4.8 Cement-based mortar may incorporate lime to EN 459-1. This shall be submitted for the approval of the Project Manager.
- 10.4.9 Constituent materials may be batched by volume, using clean and accurate gauge boxes or buckets. The mix proportions shall be based on damp sand, with adjustments being made to the mix proportions to compensate for dry sand. Mixing of the mortar shall be carried out in a pan type, or a tilting-drum mixer, properly maintained and in a clean condition.

## 10.5 PRE-MIXED (FACTORY-MADE) CEMENT - BASED RENDERING MORTAR - GENERAL

- 10.5.1 Pre-Mixed (factory-made) cement-based renderings shall consist of mortar containing portland cement and sand, in agreed proportions, to the external or internal surface of the building, in one or more layers.
- 10.5.2 Pre-mixed cement-based renderings shall conform to EN 998-1.

## 10.6 INTERNAL PRE-MIXED (FACTORY-MADE) CEMENT - BASED RENDERING MORTAR

- 10.6.1 Cement-based mortar for internal use shall consist of one **Base Coat** and one plain **Finishing Coat**, with an overall thickness of 13mm on vertical surfaces and 10mm on ceilings, exclusive of keying depths and dubbing coats.
- 10.6.2 If metal lathing is used, this overall thickness shall be achieved from the surface of the metal lathing.
- 10.6.3 Cement-based rendering for internal use to receive a Gypsum finish coat shall have an overall thickness of 9-10mm on vertical surfaces, and 7mm on ceilings, ready to receive a 3mm thickness of Gypsum.
- 10.6.4 The nominal size of the **Base Coat** shall be less than 1.5mm.
- 10.6.5 The thickness of the **Base Coat** plaster shall be 10mm (7mm for Ceilings).
- 10.6.6 The hardened plaster shall be vapour-permeable with a  $\mu$  value of  $\leq 12$ .
- 10.6.7 The hardened plaster shall have a compressive strength of Class CS III.
- 10.6.8 The fire rating shall be Class A1.
- 10.6.9 The nominal size of the **Finishing Coat** plaster shall be less than 0.6mm.
- 10.6.10 The thickness of the **Finishing Coat** plaster shall be 3mm.
- 10.6.11 The hardened plaster shall be vapour-permeable with a  $\mu$  value of  $\leq 12$ .
- 10.6.12 The hardened plaster shall have a compressive strength of Class CS II.
- 10.6.13 The fire rating shall be Class A1.



## 10.7 EXTERNAL PRE-MIXED (FACTORY-MADE) CEMENT - BASED RENDERING MORTAR

10.7.1 Cement-based mortar for external use shall consist of one ***Base Coat*** and one plain ***Finishing Coat*** having similar properties to those indicated for internal applications except for the following:

10.7.2 Exposure classification – External Mortar

10.7.2.1 The classification of external environmental exposure shall normally be indicated in the Bills of Quantities and/or Drawings.

10.7.2.2 The external exposure categories shall be as follows:

A. Sheltered and Moderate

B. Severe

10.7.3 CLASSES – External Mortar

10.7.3.1 The class of external cement-based renderings shall be as follows:

A Sheltered and Moderate Environment

Capillary water Absorption Class W1 (EN 998-1).

B Severe Environment

Capillary water Absorption Class W2 (EN 998-1).

10.7.4 Compressive Strength Class – EXternal RENDERINGS

10.7.4.1 The compressive strength class of external renderings shall be as follows:

A Sheltered and Moderate Environment

Class CS III (EN 998-1)

B Severe Environment

Class CS IV (EN 998-1)

10.7.5 Cement-based rendering for external use shall normally have a single undercoat thickness of 8-12mm.

10.7.6 Where metal lathing is used, a first ***Base Coat*** of 3-6mm thickness shall be required, followed by a second ***Base Coat*** of 10- 14mm thickness.

10.7.7 The ***Finishing Coat*** shall be less than 8mm thick for a plain smooth finish, and 8-11 mm thick for a scraped finish (before scraping).



## 10.8 BEADS AND STOPS

- 10.8.1 Beads and stops shall be used in external angles, and stop ends, except where specified otherwise. At corners, neat mitres shall be used at return angles. Beads and stops for internal use shall be aluminium type or approved un-corrodible equivalent, such as uPVC.
- 10.8.2 Beads and stops shall be securely fixed mechanically using the longest possible lengths, properly plumb, square and true to line and level, ensuring full contact of the wings with the substrate. After the coatings have been applied, surplus material shall be removed, when still wet, from the surfaces of beads/stops exposed to view.

## 10.9 PRE-MIXED INTERNAL PLASTERING

- 10.9.1 Internal plastering shall consist of the application of a high quality proprietary gypsum-based, or lime-based, finishing mortar applied to internal wall surfaces.
- 10.9.2 Internal plastering shall conform to the recommendations of BS 5492: 1990, Code of Practice for Internal Plastering.
- 10.9.3 Gypsum plaster shall be applied in two layers, namely a **Base Coat** and a **Finishing Coat**.

## 10.10 PRE-MIXED INTERNAL PLASTERING - PREPARATION AND APPLICATION

- 10.10.1 The **Base Coat** shall consist of a 10mm pre-mixed plaster based on gypsum, hydraulic lime and additional materials such as **expanded perlite** and specific additives to assist fluidity control, support adherence, setting and working times.
- 10.10.2 The nominal size of the **Base Coat** plaster shall be less than 1.5mm.
- 10.10.3 The hardened plaster shall be vapour-permeable with a  $\mu$  value of  $\leq 8$ .
- 10.10.4 The hardened plaster shall have a compressive strength of  $\geq 2.5$ MPa.
- 10.10.5 The fire rating shall be Class O.
- 10.10.6 When using a gypsum-based **Base Coat** for stone masonry surfaces, the same precautions for the substrate surfaces shall be taken as described for cement gauged renders.
- 10.10.7 Smooth concrete and dusty surfaces shall be treated with an appropriate adhesion primer, consisting of organic resins in a water-based emulsion.
- 10.10.8 The **Base Coat** plaster shall be applied initially as a thin coat firmly worked into the substrate, and then gradually brought to full specification thickness. The coat shall be brought to a level surface using a metal straight edge, and shall then be cross-scratched to form a mechanical key.



- 10.10.9 **Base Coats** on adjacent dissimilar materials shall be assisted by isolation layers and metal lathing, as specified above, and by plastering on metal lathing, after ensuring that the lathing is taut and fixed with key facing outwards.
- 10.10.10 Tying wire ends shall be bent inwards, and any cut edges, staples or nail heads shall be painted with bitumen to avoid rust staining.
- 10.10.11 Plasters shall be mixed in a paddle-type mixer, with machines and containers cleaned frequently, at least after every batch mix of gypsum plaster, and whenever different materials are used. Gypsum plasters shall not be used if initial set occurs before application.
- 10.10.12 The **Finishing Coat** for gypsum plastering shall be 3mm thick and shall be laid with a trowel, so as to achieve a tight matt smooth surface with no hollows, abrupt changes of level or trowel marks.
- 10.10.13 Rapid, premature or uneven drying out of the final coat shall not be allowed.
- 10.10.14 The **Finishing Coat** gypsum shall consist of gypsum, hydrated lime, rock powder and special adhesives and additives to increase workability and adhesion.
- 10.10.15 The nominal size of the Base Coat plaster shall be less than 0.2mm.
- 10.10.16 The hardened plaster shall be vapour-permeable with a  $\mu$  value of  $\leq 10$ .
- 10.10.17 The hardened plaster shall have a compressive strength of  $\geq 2.0$ MPa.
- 10.10.18 The fire rating shall be Class O.
- 10.10.19 The **Finishing Coat** shall be applied using a stainless steel rectangular trowel, over the whole surface. The trowel shall have specially ground edges, and shall be made from extra-hard stainless and abrasion-proof steel.
- 10.10.20 The finished surfaces shall be even and consistent and free from rippling, hollows, ridges, cracks and crazing.
- 10.10.21 The finished surface shall be to a true plane, to the correct line and level, with angles and corners to the right angle, unless specified otherwise, and with walls and reveals plumb and square.
- 10.10.22 Surface flatness/regularity shall be acceptable if the deviation of the surface from a 1.8m straightedge does not exceed 3mm.
- 10.10.23 The Contractor shall be required to prepare sample applications of the proprietary renders, on a variety of substrates and to retain the samples on site for a period of time specified by the Project Manager, before the use of such renders is approved.



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**10.11 APPLICATION OF LAYERS**

- 10.11.1 Coats shall be applied firmly in a continuous operation, between angles and joints to achieve a good adhesion to the previous coat. Undercoats shall be ruled to an even surface. When the undercoat has begun to stiffen, the surface shall be scored with a comb, so as to form wavy horizontal lines, spaced approximately 20mm apart, and 5mm deep, or cross- scratching.
- 10.11.2 Coats shall be applied in such a sequence that ensures a finishing layer that is slightly weaker than the background layer.
- 10.11.3 The undercoat shall be left for at least a week before the final coat is applied, in order to allow any cracking from the initial shrinkage to occur. In warm dry weather, the undercoat shall be cured by draping it with sheet polythene, held against the surface to prevent evaporation. When applying the undercoat on metal lathing, care shall be taken to work the render well into the interstices to obtain maximum key.
- 10.11.4 The final coat for smooth cement-sand finish shall be laid with a trowel, so as to achieve a tight matt smooth surface with no hollows, abrupt changes of level or trowel marks. The final coat for scraped cement-sand finish shall be scraped some hours after application, using a wooden float faced with expanded metal, or using an old saw blade. The scraping shall be sufficient to evenly remove the surface skin of the mortar and expose the larger particles of aggregate. Some of the aggregate will be dragged from the mortar by the scraping action. After scraping, the surface shall be lightly brushed with a soft brush to remove all dust, and to produce a clean crisp texture. About 3mm of thickness is expected to be removed by the scraping of a saw blade.
- 10.11.5 Rapid, premature or uneven drying out of the final coat shall not be allowed, and in warm or windy weather, the final coat shall be damped down, or sprayed gently with water. Curing under polythene sheeting shall be allowed provided the polythene can be arranged to hang clear of the surface in such a way that it does not form a funnel through which the wind could increase the rate of evaporation, and in such a way as to prevent the polythene sheeting from intermittent contact with the face. The surface shall be protected from rain. Curing shall last for a minimum period of 3 to 4 days.
- 10.11.6 The finished surfaces shall be even and consistent and free from rippling, hollows, ridges, cracks and crazing. The finished surface shall be to a true plane, to the correct line and level, with angles and corners to the right angle, unless specified otherwise, and with walls and reveals plumb and square. Surface flatness/regularity shall be acceptable if the deviation of the surface from a 1.8m straightedge does not exceed 3mm.



## 10.12 PROPRIETARY RENDERINGS FOR EXTERNAL USE – SILICATE OR ACRYLIC-SILICONE

- 10.12.1 Proprietary renderings for external use shall consist of pre-mixed renders based on silicate or acrylic-silicone binders, applied to produce a durable surface, with specific surface textures, and, in particular, the texture referred to as "graffiato" .
- 10.12.2 These renders shall contain specially selected quartz sand, or other inert fillers, with special additives, suitable for providing a durable coating, with high permeability to water vapour, and a high water resistance, as well as resistance to algae and fungal attack, loss of colour and degradation with time
- 10.12.3 They shall have an integral colour based on inorganic pigments with a high photo-stability. It shall also be fire retardant. It shall have a good adhesive power, and a good interactivity with the mineral substrate.
- 10.12.4 They shall be capable of application with a steel spatula, to the specified thickness, and, once dry be given a uniform "graffiato" or equivalent texture finish.
- 10.12.5 Silicate and Acryl-Silicone renderings shall consist of a proprietary render, nominal size < 3.0mm, free of solvents, and containing natural fillers such as marble and quartz, limestone and sand, capable of optimum adhesion with mineral substrates and developing a high mechanical resistance.
- 10.12.6 The render shall have an integral colour. It shall be resistant to UV radiation.
- 10.12.7 It shall be laid in a single operation. Partial renderings shall be separated by straight, horizontal merge lines as agreed with the Project Manager.
- 10.12.8 Renderings shall also have the following performance characteristics:

	<b>Silicate</b>	<b>Acryl-Silicone</b>	<b>Unit</b>
Compressive Strength	≥ CS III	≥ CS III	MPa
Vapour Diffusion	≤ 140	≤ 190	μ
Water Absorption	W2	W2	Kg/(m <sup>2</sup> .h <sup>0.5</sup> )
Air Strata Equivalent	≤ 1.5	≤ 1.5	m
Kuenzle Factor	≤ 0.1	≤ 0.1	Kg/(m.h <sup>0.5</sup> )
Resistance to Powder Flaking	≥ 600	≥ 600	hours



Colour Fastness	≥ 600	≥ 600	hours
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### 10.13 POINTING “FUQ IL-FIL”

- 10.13.1 Soft joints of the stone masonry shall be raked out and opened to a depth of approximately 20mm.
- 10.13.2 The joints shall be cut, rectified and formed, in both the horizontal and vertical directions, in such a way so that the finished joint shall have a constant width of 8mm, and shall be true to the horizontal and vertical.
- 10.13.3 The joints shall be pointed as indicated with a proprietary mortar formed by a white cement-lime-sand-additives mix to match the existing stone colour.
- 10.13.4 The mix shall have a compressive strength of  $\geq 7$  MPa.
- 10.13.5 When the joint pointing has dried, the whole stone surface shall be sanded and rubbed down to produce a plane compact masonry surface, with regular joints matching the colour of the existing “franka” stone across the surface.

### 10.14 INTERNAL AND EXTERNAL POINTING (EXCLUDING “FUQ IL-FIL”)

- 10.14.1 Masonry surfaces that will not be rendered shall have their soft joints raked out to a depth of 15mm.
- 10.14.2 The joints shall be pointed as indicated with an approved prescribed mortar formed by a white cement-lime-sand-additives mix, in appropriate proportions to match the existing stone colour or a pre-mixed, factory made alternative to EN 998-1.



## **11 SPECIFICATIONS FOR PAINTING IN LINE WITH THE NATIONAL GREEN PUBLIC PROCUREMENT GUIDELINES**

### **11.1 COMPLIANCE - SAMPLE SIZE AND FREQUENCY OF SAMPLING (WHERE APPLICABLE)**

11.1.1 Where applicable sample size and frequency of sampling for compliance shall be established on the basis of standard statistical guidelines.

### **11.2 COMPLIANCE – TESTING AND CERTIFICATION**

11.2.1 Compliance shall be demonstrated through testing and/or certification of products and/or processes as outlined in the ensuing clauses.

11.2.2 The Contractor may be required to prepare sample applications of the renders, pointing and paint on a variety of substrates for final approval before the start of the Works.

#### **11.2.3 Bidders must declare that the following materials/substances will not be used in the building:**

- i. Products which contain sulphur hexafluoride (SF6).
- ii. Indoor paints and varnishes<sup>1</sup> with a content of solvents (volatile organic compounds (VOCs) with a boiling point of 250°C maximum) higher than:
  - a) For wall paints (according to EN 13300): 30 g/l (minus water).
  - b) For other paints with a spreading rate of at least 15 m<sup>2</sup>/l at a hiding power of 98% opacity: 250 g/l (minus water).
  - c) for all other products (including paints that are not wall paints and that have a spreading rate of less than 15m<sup>2</sup>/l, varnishes, wood stains, floor coatings and floor. paints, and related products): 180g/l (minus water).

#### **Verification:**

Bidders must declare that these products/substances will not be used in the building.

1. Limit values extracted from the European Ecolabel and relevant standards such as EN 13300.

### **11.3 PAINTWORK - GENERAL**

11.3.1 Generally, painting work shall comply with the recommendations of BS 6150 – Code of Practice for Painting of Buildings. General workmanship, and, in particular, the preparation of surfaces for painting, shall also comply with BS 8000: Part 12. The appropriate environmental category, as defined in BS 6150, shall be Mild for interior conditions and Severe for exterior conditions.

### **11.4 PAINT – INTERNAL WALLS, FLOORS AND CEILINGS**

11.4.1 The paint shall comply with EN 13300, Paints and Varnishes, Water-borne



Coating systems for Internal Walls and Ceilings.

- 11.4.2 The paint shall comply with the ecological and performance criteria adopted by the EU for the award of the Eco-Label for internal paints and varnishes.

### 11.5 PAINT – EXTERNAL MASONRY AND CONCRETE

- 11.5.1 The paint shall comply with EN 1062-1, Paints and Varnishes, Coating Systems for Exterior Masonry and Concrete.

- 11.5.2 The dry film thickness on external areas shall be  $\geq$  Class E3.

### 11.6 PAINT – EXTERIOR AND INTERNAL WOOD

- 11.6.1 The paint shall comply with EN 927-1, Paints and Varnishes, Coating Systems for Exterior Wood.

### 11.7 PAINT – INTERNAL AND EXTERNAL METALWORK

- 11.7.1 See FTS Specification 18.

### 11.8 PAINT – TESTING

- 11.8.1 Testing of shall be carried out in accordance with BS 3900 or the BS ISO equivalent.

- 11.8.2 The Contractor shall supply test certification for the batches used.

- 11.8.3 The following characteristics and limits shall *also* apply:

#### 11.8.3.1 Emulsion - Internal

i.	Film Dry Film Thickness:	As per Product Datasheet
ii.	Fire protection:	EuroClass A2-s1, d0
iii.	Fungal Resistance:	Total absence of growth
iv.	Permeability to Acqueus Vapour	Medium ( sd < 1.5m)
v.	Wet Abrasion (Walls)	Class 1 or 2 (ISO 11998)
vi.	Wet Abrasion (Ceilings)	Class 4 (ISO 11998)
vii.	Power of Cover (Walls)	Class 1 or 2 (ISO 6504-3)
viii.	Power of Cover (Ceilings)	Class 3 or 4 (ISO 6504-3)

#### 11.8.3.2 Emulsion - External

i.	Film Dry Film Thickness:	As per Product Datasheet
ii.	Fire protection:	EuroClass A2-s1, d0
iii.	Fungal Resistance:	Total absence of growth
iv.	Permeability to Acqueous Vapour	Medium ( sd < 1.5m)
v.	Permeability to Water	W2min.( $\leq$ 0.5, > 0.1kg / (m <sup>2</sup> .h <sup>0.5</sup> ))
vi.	Resistance to CO <sub>2</sub> penetration	Class C1 (sd > 50m)



- vii. w x sd (Kunzel Factor)  $\leq 0.1\text{kg}/(\text{m}\cdot\text{h}^{0.5})$   
 viii. Gloss Matte

#### 11.8.3.3 Masonry Stabilizing Solution

As per product Datasheet

#### 11.8.3.4 Masonry Sealer

As per Product Datasheet

#### 11.8.3.5 Oil or Alkyd Based

- i. Film Dry Film Thickness: Min. 0.034mm;  
 ii. Fire protection: EuroClass A2-s1, d0  
 iii. Fungal Resistance: Total absence of growth  
 iv. Wet Abrasion Class 1 or 2 (ISO 11998)  
 v. Power of Cover Class 1 or 2 (ISO 6504-3)

### 11.9 GLOSS LEVELS

11.9.1 The following are informative guidelines for the specified gloss levels in accordance with EN ISO 2813:

Gloss Level	% Incidence @ 60°	% Incidence @ 85°
Dead Matte		> 5
Matt		> 10
Mild Sheen	< 60	≥ 10
Gloss	≥ 60	

11.9.2 All paints shall be thoroughly mixed and stirred before use. They shall be stored in such a way that minimizes exposure.

11.9.3 The paint shall be supplied from the same batch.

11.9.4 Thinning of materials, where necessary shall be carried out with the type of thinner and to the proportions recommended by the manufacturer of the paint.

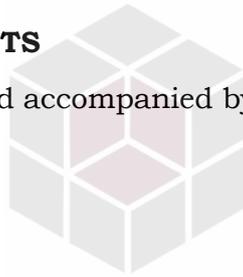
11.9.5 Substrate shall be thoroughly cleaned down to remove all dirt, grease, plaster and mortar deposits, efflorescence and underbound slurry, by brushing or rubbing with a dry cloth followed by wiping with a damp cloth. The surface shall then be allowed to dry. The surface shall be brushed to remove any loose aggregate. Any surface mould growths shall be removed, and residual growths shall be treated by washing with fungicidal wash, or approved equivalent. Cracks, holes and other imperfections shall be cut out and made good. Such making good shall be allowed to dry out thoroughly. Any fillers used shall be in accordance with the manufacturer's recommendations.



- 11.9.6 Each coat of paint shall be allowed to dry out before the next is applied.
- 11.9.7 No exterior or exposed painting shall be carried out under adverse weather conditions.
- 11.9.8 No primer coats shall be applied until the surfaces have been approved by the Project Manager. No undercoat or finishing coats shall be applied until previous coats have been similarly inspected and approved.
- 11.9.9 Colours and textures shall be approved by the Project Manager and provision must be made for the execution of trial areas on site as required.
- 11.9.10 Painting shall be applied in a sequence and adjusted to take into account the completion timeframes of other trades. Paintwork shall only be applied in the appropriate conditions of temperature, humidity and cleanliness. For interior work, painting shall be applied only after the interior space is weather-tight, maintained at temperature and humidity levels, and lit to the levels, similar to those prevailing when the school building is occupied, unless otherwise specified. Paint shall be roller applied. All paintwork shall be left clean and unblemished, and all surfaces adjacent to painted surfaces cleaned from droppings or other marks.

#### **11.10 SAFETY DATA SHEETS**

- 11.10.1 Paint shall be supplied accompanied by the relevant safety data sheets.





## Quotation

### Bills of Quantities



**Bill of Quantities for External Plastering and Painting Works at San Lawrenz Primary School,  
Gozo(Compliant with the GPP Criteria)**

Item No.	Description	Qty	Unit	Unit RATE inc. V.A.T and all expenses as may be applicable.	Total AMOUNT inc. V.A.T and all expenses as may be applicable.
	<p><b><u>BILL No. 1 - PRELIMINARIES</u></b></p> <p><b><u>Preamble</u></b></p> <p>All works shall be measured net as laid. Openings larger than 1.5m in width will be deducte. Rate to include aluminium beadings and stops around external/internal recesses.</p> <p>Contractor to allow for the provision of suitable site hoarding as may be specified by the Architect-in-Charge</p> <p>Quoted rates are deemed to include for:</p> <ol style="list-style-type: none"> <li>1) double handling</li> <li>2) re-touching works for plastering and painting around window sills, etc.</li> <li>3) Working around existing services</li> <li>4) temporary shifting of services including cables/wires &amp; pipes as applicable</li> <li>5) plastering damaged window sills, lintels, jambs and other wall imperfections, as instructed by the Architect-in-Charge</li> </ol> <p>Façade rates shall include for recess and protrusions</p> <p>The contractor is advised to familiarise himself with the site beforehand as no claims for additional costs resulting from misinformation of site conditions will be entertained</p> <p>Rates are to include the use of a cherry picker, scaffolding or other equipment to reach a height of up to two (2) stories</p> <p>In case of damage, the contractor is to make good for all such damage immediately. In case of failure to do so, or inadequately done, the client will commission the required repairs and back charge the contractor for the costs.</p>				
	<b><u>Subtotal Carried Forward</u></b>			€	<b>0.00</b>

**Bill of Quantities for External Plastering and Painting Works at San Lawrenz Primary School,  
Gozo(Compliant with the GPP Criteria)**

Item No.	Description	Qty	Unit	Unit RATE inc. V.A.T and all expenses as may be applicable.	Total AMOUNT inc. V.A.T and all expenses as may be applicable.
<b>Brought Forward</b>				€	<b>0.00</b>
	<p><i>A neat cut line is to be prepared on the façade walls where new rendering will meet the existing rendering and also where different types of rendering meet.</i></p> <p><b><i>Rates are to include clearing of the site of all rubbish and other waste material, including loading and carting away to an authorised dumping site. Rate for carting away shall include for any fees or taxes for the dumping of materials.</i></b></p> <p><b><i>Tenderers must quote the price for each individual item, as per Bills of Quantities. Prices shall also include Customs Duty, Levies, VAT, ECO Contribution (if applicable) and all other charges and taxes as applicable at the current period of publication and closing date of tender</i></b></p> <p>The rates are deemed to include the costs of the following:</p> <ul style="list-style-type: none"> <li>A) Insurances as contained and/or implied for in the Contract Document</li> <li>B) Transport, delivery, setting out and installation</li> <li>C) Hiring, maintaining and running of all type of tools and plant, both mechanical and manual tools/plant, including mobilisation and/or demobilisation, both on and off the site</li> <li>D) Working beyond normal working hours. No other claims for extra will be accepted</li> <li>E) Prepare and run a Safety Programme</li> </ul> <p><b><i>All listed works are to be carried out within the stipulated time frame, and to the complete satisfaction of the Architect in charge.</i></b></p> <p>Full responsibility is to be assumed by the contractor and he is held responsible for the entire guarantee period</p> <p><b><i>During the progress and on completion of the works, the contractor shall carry out at his expense all the relevant quality control tests as may be required from time to time by the FTS and the International Standard Practice</i></b></p>				
<b>Subtotal Carried Forward</b>				€	<b>0.00</b>

**Bill of Quantities for External Plastering and Painting Works at San Lawrenz Primary School,  
Gozo(Compliant with the GPP Criteria)**

Item No.	Description	Qty	Unit	Unit RATE inc. V.A.T and all expenses as may be applicable.	Total AMOUNT inc. V.A.T and all expenses as may be applicable.
<b>Brought Forward</b>				<b>€</b>	<b>0.00</b>
<b><u>BILL No. 2 - FINISHING WORKS</u></b>					
2.1	Removal and sanding down of all paint from external surfaces with the provision of a rough surface by mechanical means	140	sqm		
2.2	Supply and apply 2 coats of stabilising solution on external concrete, brick and masonry surfaces prior to the application of GR1000	340	sqm		
2.3	Render surface of external concrete block/masonry walls, beams, columns, lintels and pilasters, with proprietary render known as GR1000 finish prior to the application of paint. Rate is to include aluminium beading to internal/external angles requiring protection as directed by the Architect in charge.	340	sqm		
2.4	Supply and apply 2 coats of approved smooth plastic emulsion paint for external use on GR1000 surfaces as per specifications. Colours to be decided by Architect in charge.	340	sqm		
	<b><i>Other Works</i></b>				
2.5	Clear site of all rubbish and other waste material. Load and cart away to an authorised dumping site. Rate for carting away shall include for any fees or taxes for the dumping of materials.	1	Lump Sum	Lump Sum	
<b><u>Total Amount of Works including VAT and all other expenses as may</u></b>					
				<b><u>be applicable</u></b>	<b>€</b>

Company

Address

Telephone:

Fax:

Mobile Phone:

e-mail: \_\_\_\_\_

Trading Licence No. \_\_\_\_\_ Valid up to \_\_\_\_\_

V.A.T Registration No. \_\_\_\_\_

Signature of Tenderer: \_\_\_\_\_ I.D No. \_\_\_\_\_

Full Name (Block Letters) \_\_\_\_\_ Date: \_\_\_\_\_



**Quotation**

**List of Drawings**

**Not Applicable**

