



OGDCL PAKISTAN:
OIL & GAS DEVELOPMENT
COMPANY LIMITED

KPD-TAY Compression Project (Phase-II)

ISSUED FOR TENDER

REV	DATE	DESCRIPTION	ORIG	CHKD	LE	QA	PM	LOCAL REPR.	PROJ. MAN
0	6-1-2022	ISSUED FOR TENDER	HB	MD	KM	MPM	MAS		
A	29-10-2021	ISSUED FOR REVIEW	HB	MD	KM	MPM	MAS		
REVISIONS			APPROVAL					CLIENT APPROVAL	



ENAR Petrotech Services (Pvt.) Limited ,
7-B , Sector 7-A , Korangi Industrial Area ,
Karachi Pakistan

TITLE:

SPECIFICATION FOR PAINTING

PROJECT NO.
14-0258

DOCUMENT NO:

0258 – CA – 7010 – 0



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1.0 GENERAL

- 1.1 Every possible precaution shall be taken to keep down dust before and during painting processes. No paint shall be applied to surfaces structurally or superficially damp and all surfaces must be ascertained to be free from condensation, efflorescence etc., before the application of each coat.
- 1.2 Primed or undercoated woodwork and metalwork should not be left in an exposed or unsuitable situation for an undue period before completing the painting process. No exterior or exposed painting shall be carried out under adverse weather conditions, such as rain, extreme humidity, dust storms etc.
- 1.3 Metal fittings such as Ironmongery etc. not required to be painted shall first be fitted and then removed before the preparatory processes are commenced. When all painting is completed the fittings shall be cleaned and refixed in position.
- 1.4 Brushes, pails, bottles etc. used in carrying out the work shall be clean and free from foreign matter. They shall be thoroughly cleaned before being used for different types or classes of material.
- 1.5 The number of coats stated in this specification is the minimum, sufficient coats to achieve a proper even finish must be applied to the approval of OGDCL's Representative.

2.0 MATERIALS

- 2.1 All paints and material shall conform to British Standard Specification, and shall be the product of reputable manufacturer.
- 2.2 Details of mixing and application shall be in accordance with the specifications of the manufacturers.
- 2.3 The mixing of paints etc of different brands before or during application will not be permitted. No dilution of painting materials shall be allowed except strictly as detailed by the manufacturers.
- 2.4 Stopping for Woodwork to receive clear finish shall be tinted to match surrounding woodwork, to approval.



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- 2.5 Stopping for internal woodwork, plywood, hardboard, and fiberboard, shall be linseed oil putty tinted to match the colour of the undercoat.
 - 2.6 Stopping for external woodwork shall be white lead paste well mixed.
 - 2.7 Thinners shall be approved turpentine or white spirit.
 - 2.8 For steel surfaces the primer shall consist of true red lead (Pb 3.04).
 - 2.9 The paints to be used under this specification shall be synthetic enamel paint, plastic emulsion paint, snowcem/durocem, distemper and weather shield paint, etc.

3.0 COLORS AND SAMPLES

- 3.1 Colors of priming coats (and body coats where specified) shall be lighter than those of finish coat.
- 3.2 Colors shall be pure, non-fading pigments, mildew- proof, sub-proof, finely ground in approved medium. Colors used on concrete, masonry, stucco plaster and wall board surfaces (as applicable), shall be lime- proof. All materials shall be subject to the OGDCL / OGDCL's Representative approval.
- 3.3 Samples of all colours, stains, and finishes shall be prepared in advance of requirements so as not to delay work and shall be submitted to the OGDCL / OGDCL's Representative for approval. Three (3) separate samples of each colour shall be submitted on 9"×12" panels of the material for which the colour is specified.

4.0 PREPARATION OF SURFACES AND WORKMANSHIP

- 4.1 Before doing any work, inspect all surfaces and determine that they are in proper condition to receive the work to be performed under this section.
- 4.2 All spaces shall be broom-clean and all surfaces dry before painting is started. All dust, dirt, plaster grease, and other extraneous matter affecting the finish work shall be removed.
- 4.3 Bare metal surfaces shall be properly cleaned of all mill scale, rust, grease, oil dirt, or other foreign matter. After cleaning, the surfaces shall be detached, pickled, primed, or otherwise prepared, as recommended by the paint manufacturer.



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- 4.4 Remove blisters or other imperfections in previous coats caused by foreign substances or paint skins from all painted subsequent coat is applied.
- 4.5 All stained and natural-finished woodwork shall be back- sealed with one (1) coat of approved clear sealer finish. All exterior painted woodwork shall be back- painted with one (1) coat of approved staining paint & primer.
- All interior painted woodwork shall be back painted with one (1) coat of approved primer. Paint or seal edges of fixtures, equipment and other material where they present an un-finished appearance.
- 4.6 No painter's finish shall be applied until the preceding coat is thoroughly dry, and in no case in less than (5) days for exterior work and two (2) days for interior work.
- 4.7 Touch-up, finish coats of factory finished items that become damaged before completion of the building. Where spot touch up cannot be done neatly and blended smooth with other finish material, repaint entire surface or panel as approved by the OGDCL / OGDCL's Reprehensive.

5.0 EXTERIOR PAINTING SCHEDULE

	<u>No. of Coats</u>	<u>Type of Primer and Paints</u>
A. <u>Ferrous Metals</u>		
	One coat of Primer	Approved primer in shop or Red Lead Primer
	Three coats Paint	Enamel Paint
B. <u>Galvanized Metal</u>		
	One coat of Primer	Passivating coat as recommended by Paint Manufacturer (where not so bonderized) or Zinc Primer
	Three coats Paint	Enamel Paint
C. <u>Non-Ferrous Metals</u>		
	One coat of Primer	Zinc chromate Primer
	Three coats Paint	Enamel Paint
D. <u>Exterior Concrete/Plaster</u>		
	One coat of Primer	Approved Primer for Exterior Concrete face
	Three coats Paint	Durocem/Snowcem/Weather Shield Paint



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E. **Exterior Sheet Metal**

Flashing, Gravel Stops, Zinc Chromate Primer
Roof Fans, Vents etc.

6.0 **INTERIOR PAINTING SCHEDULE**

A. Interior Fairface

Concrete/Plaster

One coat of Primer Filler-Primer-rough textured

Three coats Paint Plastic Emulsion Paint

Three coats Paint Lime/colour Wash (if any)

B. Natural Finish (including Doors, wood, panels
Handrails, Hardwood Finish
and Veneers)

One coat of Primer (Woodstain, if necessary) or Enamel Undercoat

Three coats French lacquer Finish or Wax polish. (or three
coats of paint).

C. Interior Architectural woodwork and finish carpentry work for paint finish
(includes all softwood, softwood veneers and paint-grade hardwood veneers),
unless otherwise indicated.

One coat of Primer Enamel Undercoat

Three coats Paint Synthetic Enamel Paint

• D. Ceiling Plaster

One coat of Primer Approved Primer for Interior

Three coats Paint Oil Bound Distemper Paint

• E. Ferrous Items

One coat of Primer Red Lead Primer (in shop) or One coat of Enamel
Undercoater

Three coats Paint Enamel Paint.



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7.0 STEELWORK INCLUDING WINDOWS, VENTILATOR ETC. INTERNALLY AND EXTERNALLY

- 7.1. If delivered galvanized, the surfaces shall be cleared to remove grease and dirt before priming. Where rusting has occurred through damage to the galvanizing, such rust shall be removed by wire brushing back to clean metal and the galvanizing made good with a rust-inhibiting agent. The surface shall then be treated with one coat of mordant solution and one coat of zinc chromate priming paint.
- 7.1. If delivered primed, the surfaces shall be examined to ascertain that the priming paint is hard, firmly adhering and in good condition. If not satisfactory, the priming paint shall be removed and the surfaces cleaned to remove rust, and reprimed. If the condition of the priming paint is satisfactory, the surfaces shall be cleaned to remove grease and dirt, minor damage to the priming paint being made good with red oxide priming paint after removal of rust.
- 7.3 If delivered unprimed and not galvanized, the surfaces shall be cleaned to remove grease and dirt, and wire brushed and scraped to remove all rust and scale before applying a red oxide priming paint.
- 7.4 Priming paint shall be brushed well into the surface and shall be allowed to dry and harden thoroughly before the application of subsequent coats.
- 7.5 Items of steelwork such as frames to roller shutters, covers to expansion joints etc., which are to be built into walls, shall first be primed.

8.0 STEELWORK AND EXPOSED SERVICE PIPES

- 8.1 Internally, apply three-coat gloss paint over one undercoat.
- 8.2 Non-ferrous pipes shall be finished in three coats of gloss paint over one coat of Primer.
- 8.3 Externally, apply three coats gloss paint over one undercoat.

9.0 EXPOSED SERVICE PIPES

- 9.1 Steel pipes will be treated as for steelwork with the exception that galvanized pipes are to be treated with a zinc-chromate priming paint.



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9.2 Coated soil pipes shall be wiped clean and treated with three coats of priming paint.

10.0 WOODWORK REQUIRED TO BE PAINTED (FINISHING PROCESS)

10.1 Surfaces shall be cleaned to remove grease and dirt. The surface of teak shall be cleaned with white spirit to remove free oil. The preparation process shall be as under:

- KNOT: All knots shall be treated with shellac knotting.
- PRIME: One coat of primer shall be thoroughly applied by brush to all surfaces and when dry a further coat to be applied to end-grain surfaces.
- STOP: when priming paint is hard, all cracks, holes, open joints etc. shall be made good with hard stopping and all open grain surfaces filled smooth with linseed oil putty or an approved filler and rubbed down with fine glass paper.
- After wood primer has thoroughly dried apply three coats of enamel paint of approved colour.
- Wax polish and varnish shall be applied in accordance with manufacturer printed instruction of approved quality.

10.2 Items of carpentry work which are to be built into walls etc. shall be first treated by twice coating with cresole/solegnum or other approved preservative.

11.0 WOODWORK REQUIRED TO BE STAINED

11.1 Surfaces shall be cleaned to remove grease and dirt. The wood shall then be stopped, filled and rubbed down. In the case of teak free oil shall be removed by cleaning with white spirit.

12.0 INTERNAL PLASTER (FINISHING PROCESS)

12.1 Where emulsion paint is specified three coats shall be applied by brush in addition to any priming paint.

12.2 Where water paint is specified three coats shall be applied by brush in addition to the petrifying liquid. The water paint shall be thinned to the consistency of thick cream.



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12.3 Where oil paint is specified three coats shall be applied by roller or brush, but not by spray, to produce hard gloss, oil gloss, eggshell or flat finish as required.

12.4 The finishing coat of paint to walls and ceilings shall be applied after the completion and testing of the electrical installation.

13.0 EXTERNAL PLASTER

13.1 Externally a cement type paint may be used, and shall be applied keeping a constantly wet edge, in strict accordance with the manufacturer's instructions. General paints shall be Durocem/Snowcem/Weather Shield.

13.2 The external plaster may be applied with mud finish, textured finish, tile facing and colour crete etc. The Contractor shall be responsible for providing the samples of these items to OGDCL / OGDCL's Representative for its approval. The Contractor shall also be required to provide technical information / data in support of the material intended to be used. Contractor shall also be responsible for providing any other informations information as may be required by OGDCL / OGDCL's Representative to satisfy itself.

14.0 MANUFACTURERS

All paints and finish used for project shall be manufactured by one (1) of the following manufacturers:

1. Berger Paints (Pak.) Limited
2. Paintex (ICI) Limited
3. Buxley Paints