

TERMS OF REFERENCE

I. PROJECT TITLE

SUPPLY OF LABOR AND MATERIALS FOR THE REPLACEMENT OF WORN-OUT WATER PUMP AND UNSERVICEABLE COMPRESSOR OF AIR CONDITIONING SYSTEM SERVICING SECOND (2nd) FLOOR QUADRANT B OF PALACIO DEL GOBERNADOR BUILDING.

II. APPROVED BUDGET FOR THE CONTRACT (ABC)

One Million Pesos (Php 1,000,000.00)

Inclusive of all applicable tax

III. SCOPE OF SERVICES

1. Mobilization of manpower, tools, and equipment.
2. Dismantling of the existing dilapidated pump assembly.
 - Positioning and engineering work of new pump assembly rated 7.5Hp, 440V, 1750 rpm, 3 Phase.
 - Retrofitting of suction, discharge pipe, and fittings.
 - Concreting of pump pedestal.
 - Parameter setting of Variable Frequency Drive (Brand: DELTA) Controller to the newly installed pump assembly.
3. Dismantling of defective 20TR compressor
: SEMI-HERMETIC Compressor "Carrier"
Model: 06E2250311
Serial No: 1979J00027
20Tr, 230/460V, 60Hz, 3 Phase, R22
 - Descaling of AHU Cooling Coil
 - Descaling of Compressor Condenser
 - Flushing of System
 - Leak Testing
 - Charging of Freon
 - Integration of the electrical components for the compressor to the existing Variable Frequency Drives
Brand: Delta
Model: VFD055C43A-21
4. Testing and Commissioning.
5. Demobilization of tools and equipment.
6. Clearing the of the working area.
7. Contractor to submit Waste Material Report and Warranty Certificate.

IV. MATERIAL SPECIFICATION

<u>QTY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>
1	Assy	Southern Cross “Sovereign” Centrifugal Pump (Made in Australia conforming to ISO 2858 standard) Model 80 x 50-200 , size 3” x 2” suction and discharge flange ports, end suction, single stage, cast iron enclosed impeller, mechanical seal, stainless steel 431 shaft, grease lubricated ball bearings, all iron construction.
		<ul style="list-style-type: none"> - Directly coupled to 7.5Hp, Marathon Electric Motor, 1750RPM, 3-Phase, Horizontal foot mounted. - Mounted on common base plate with flexible coupling and guard. - With companion weld-on flange.
		Capacity : 200 GPM Head : 75 ft Pump Efficiency : 72% Impeller Diameter : 8.97” Power Rating : 7.5HP, 1750 RPM Suction & Discharge : 3” x 2” MODEL : 80 x 50-200
2	Units	SEMI-HERMETIC Compressor “Carrier” Capacity : 20 Tr Voltage : 460 V, 3 Phase Frequency : 60 Hz Refrigerant : R22
2	Units	Emerson Expansion Valve
2	Units	Crankcase oil heater
1	Unit	Suction Service Valve
1	Unit	Discharge Service Valve
2	Units	Activated core
2	Units	Filter core
2	Tanks	Flushing Agent 141B Refrigerant
8	Tanks	Freon R22
1	Set	Oxy-fuel (Oxyacetylene) Welding and Cutting
1	Lot	Descaling of 2 units wye Strainers
1	Lot	System Reprocess
1	Lot	Integration of new compressor to its VFD controller including parameter set up and fine tuning

V. CONTRACT DURATION

The project must be completed within thirty (30) calendar days from the Purchase Order issuance.

VI. PROJECT WARRANTY

One (1) year against material defects and faulty workmanship.

VII. OTHER RESPONSIBILITIES OF THE SUPPLIER/CONTRACTOR

The contractor must have the Certificate of Dealership for the existing VFD (Delta) and offered Compressor.

VIII. RESERVATION CLAUSE

The BTr reserves the right to reject documents that do not comply with the requirements, waive any formalities of documents or consider any submission of documents as substantial compliance reject any and all bids; declare a failure of bidding, annul the bidding process, or not to award the contract, without thereby incurring any liability to the affected bidder or bidders or if the funds/allotment for the program/project/activity has been withheld or reduced through no fault of the BTr.

The BTr assumes no responsibility whatsoever to compensate or indemnify bidders for any expenses incurred in the preparation of the bid.

Submitted by:

LORETO O. HIDALGO, MNSA

Chief Treasury Operations Officer II

Facilities Maintenance Division