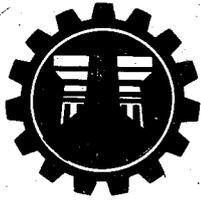


097-13 DPWA  
2-2-96



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
OFFICE OF THE SECRETARY  
MANILA

01 February 1996

DEPARTMENT ORDER)

NO. 8  
Series of 1996

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

SUBJECT: Amendments to Department Order  
No. 80, Series of 1990

Recognizing the financial constraints of small and medium contractors relative to the procurement of the required minimum testing equipment as called for in Department Order No. 80, series of 1990, and pursuant to Department Memorandum Circular No. 136, series of 1995, relative to its full and outright implementation, the required minimum materials testing equipment for small and medium contractors as presented in Annexes 1 and 2 of the said Department Order No. 80 is hereby amended for your guidance and compliance. The amendments include the list of identical minimum testing equipment requirements that must be owned by small and medium contractors and the list of equipment that said contractors may opt to own or lease (Annex 1). Where said contractors opt to lease such equipment, the corresponding lease contracts must be submitted as supporting documents in the evaluation of their technical capability.

Except for the above amendments, the other provisions of said Department Order No. 80, series of 1990, shall be strictly followed.

Further, in order to give small and medium contractors who have not yet complied with the said Department Order an extended time to procure the said testing equipment, it is hereby directed that the implementation of Department Order No. 80, series of 1990, be deferred for another two (2) months. During this period, said contractors can avail themselves of the services of the Department's testing laboratories or any private testing laboratories accredited by the DPWH in testing of construction materials, provided the testing is witnessed by authorized representatives of the concerned implementing office.

This order takes effect immediately.

  
GREGORIO R. VIGILANT  
Secretary

## ANNEX I

MINIMUM MATERIALS TESTING EQUIPMENT  
FOR SMALL AND MEDIUM CONTRACTORS

ITEM NO.	QUANTITY	DESCRIPTION
A. MINIMUM MATERIALS TESTING EQUIPMENT THAT MUST BE OWNED BY SMALL AND MEDIUM CONTRACTORS		
SOIL & AGGREGATES:		
1.	1 pc.	Sieve, Std., 200 mm diameter, opening 75 mm (3")
2.	1 pc.	-ditto- 63 mm (2 1/2")
3.	1 pc.	-ditto- 50 mm (2")
4.	1 pc.	-ditto- 37.5 mm (1 1/2")
5.	1 pc.	-ditto- 25.0 mm (1")
6.	1 pc.	-ditto- 19.0 mm (3/4")
7.	1 pc.	-ditto- 12.5 mm (1/2")
8.	1 pc.	-ditto- 9.5 mm (3/8")
9.	1 pc.	-ditto- 4.75 mm (No. 4)
10.	1 pc.	-ditto- 2.36 mm (No. 8)
11.	1 pc.	-ditto- 2.00 mm (No. 10)
12.	1 pc.	-ditto- 1.18 mm (No. 16)
13.	1 pc.	-ditto- 0.600 mm (No. 30)
14.	1 pc.	-ditto- 0.425 mm (No. 40)
15.	1 pc.	-ditto- 0.300 mm (No. 50)
16.	1 pc.	-ditto- 0.150 mm (No. 100)
17.	1 pc.	-ditto- 0.075 mm (No. 200)
18.	1 pc.	Pan, brass, 200 mm dia. x 50 mm deep
19.	1 pc.	Cover, brass, sieve
20.	1 pc.	Brush, fine sieve
21.	1 pc.	Brush, wire, sieve
22.	1 pc.	Mortar & Pestle
23.	1 set	Liquid Limit Test Set, consisting of: 1 - Liquid Limit Device 1 - Mixing dish 1 - Spatula, flexible 1 - Graduated Cylinder, glass, 100 ml 24 - Moisture Content can, 60 ml, tin
24.	1 pc	Plate, Plastic Limit
25.	1 pc	Hammer, Modified Compaction
26.	1 pc	Mold, Compaction, 152.4 mm diameter x 116.4 mm height
27.	12 pcs.	Moisture Content can, 1000 ml. capacity tin
28.	1 set	Field Density Test Set, consisting of: 1-Sand Density Cone 1-Jug, Glass or Plastic, 4-L capacity 1-Density Plate 1-Straight Edge

## ANNEX I

MINIMUM MATERIALS TESTING EQUIPMENT  
FOR SMALL AND MEDIUM CONTRACTORS

ITEM NO.	QUANTITY	DESCRIPTION
		1-Spoon
		1-25 mm Chisel, Steel
		1-4-L Field can
		1-Mallet, rubber
		1-Scoop, sand
29.	1 unit	Balance, Triple Beam, 311 g cap., 0.01 g sensitivity
30.	1 unit	Balance, Triple Beam, 2610 g cap., 0.1 g sensitivity
31.	1 unit	Balance, Heavy duty solution, 20 kg cap., 1 g sensitivity
32.	1 set	Auger, Post Hole, with two-m extension
33.	1 pc	Cylinder, glass, double graduated, 500 ml cap.
34.	6 pcs.	Bowl, mixing, 250 mm dia. x 90 mm high
35.	1 pc	Pan, square, G.I. 600 mm x 600 mm x 75 mm
36.	1 pc	Spade or Shovel
37.	1 pc	Pickaxe
38.	1 pc	Crowbar
39.	1 pc	Concrete Measure 0.014 cu. m. cap. (1/2 cu. ft.)
40.	1 pc	Straight Edge, Steel 300 mm long
CONCRETE:		
41.	1 set	Slump Cone, complete with base and tamping rod and Trowel, triangular or rectangular blade, 90 mm x 180 mm
ASPHALT:		
42.	1 pcs.	Thermometer, Metal, dial type, 0-250 C

B. MATERIALS TESTING EQUIPMENT THAT MAYBE OWNED OR LEASED  
BY SMALL AND MEDIUM CONTRACTORS

## CONCRETE:

1.	1 unit	Concrete Mixer, portable
2.	6 pcs.	Mold, steel, cylinder, 150 mm x 300 mm
3.	6 pcs.	Mold, steel beam, 150 mm x 150 mm x 500 mm