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Republika ng Pilipinas
Pambansang Pangasiwaan ng Patubig
(NATIONAL IRRIGATION ADMINISTRATION)
Lungsod ng Quezon

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OUR REFERENCE:

MC No. 49 s. 1990

TO : Assistant Administrators (PDI & SOEM)
Regional Irrigation Managers, Project Managers
Project Engineers,
All Others Concerned
This Agency

SUBJECT : GUIDELINES IN THE INSPECTION, TESTING AND
ACCEPTANCE OF FABRICATION WORKS.

In order to ensure the attainment of the desired quality of fabrication works as per approved plans and specifications, herewith are the guidelines in the inspection, testing and acceptance of fabrication works which shall be strictly followed.

Whenever applicable, the said guidelines shall be embodied in the bid documents/job order specifications for the procurement of steel fabrication works as an explicit manner of defining the responsibilities of prospective fabricators and the NIA authorized technical inspectors.

For your guidance and compliance.


JOSE B. DEL ROSARIO, JR.
Administrator

July 16, 1990

**RECOMMENDED GUIDELINES IN THE INSPECTION, TESTING, AND
ACCEPTANCE OF FABRICATION WORKS FOR INCLUSION IN THE
SPECIFICATIONS AND FOR USE BY NIA INSPECTORS**

A. MANUFACTURING/FABRICATION PROGRAM

1. The fabricator/manufacturer shall prepare a manufacturing/fabrication program in Bar Graph Form showing the activities and its sequencing in sufficient details such that the contract works can be properly monitored from commencement to completion.
2. The fabricator/manufacturer shall submit said program within thirty (30) calendar days after the date of receipt of Notice of Award.
3. The fabricator/manufacturer shall show the target dates for commencing and completing the principal activities as required for in the contract works including but not limited to the following:
 - a. procurement of materials and the like
 - b. fabrication and manufacture
 - c. painting
 - d. delivery dates

B. PRE-FABRICATION INSPECTION WORKS

1. The fabricator/manufacturer shall be required to submit mill and/or manufacturer's certificate for the steel materials, welding electrode, paints, etc. intended for use in the works.
2. Materials to be used in the fabrication shall be adequately sampled and tested to check its compliance with the specification/standard requirements.
3. No fabrication work and/or use of materials in such works shall commence unless materials for said works are duly inspected, tested, and certified by NIA or his authorized representatives as to conformity with the specification/standard requirements.
4. NIA technical inspector shall prepare and submit inspection and acceptance report on materials for use in fabrication works.

C. INSPECTION WORKS DURING ACTUAL FABRICATION

1. The NIA should assign a knowledgeable and experienced technical inspectors to conduct inspection.
2. The NIA's authorized technical inspector shall be entitled at all reasonable time free access to the manufacturer's/fabricator's plant to conduct inspection during fabrication; to ascertain that all the works shall comply in all aspect with the standards and requirements set forth in the contract documents.
3. The NIA technical inspectors shall monitor progress and conduct of the fabrication works and prepare and submit progress report on said works at regular intervals.

D. FINAL INSPECTION WORKS

1. INTAKE GATES, MAIN CANAL GATES, LATERAL AND TURN-OUT GATES

- 1.1 The NIA technical inspector shall conduct final inspection based on the approved fabrication drawings and specifications.
- 1.2 The gates should be properly marked with the corresponding identification as per approved schedule of dimension such as size of gate, lateral, stationing for proper identification by the end user.

2. SLUICE GATE, BARRAGE, AND RADIAL STEEL GATES

- 2.1 The NIA technical inspector should see to it that all component parts should be properly pre-assembled at the fabricator's/manufacture's shop to ascertain the proper fitness of all adjoining parts and should be properly punch mark before dis-assembling for guidance and reference during field installation.
- 2.2 The fabricator/manufacture should make a checklist of all clearances of all adjoining parts to be forwarded to the field office for implementation.
3. The NIA shall issue certificate of pre-delivery inspection and acceptance of completed fabrication works as a basis for the final inspection and acceptance by the field office of deliveries made at site.

E. SHOP PAINTING

- a) Upon completion of fabrication and machining works but prior to application of coating materials, the Contractor shall notify NIA in writing that the surface preparation for painting is in progress. Coating application shall commence only after the NIA or their duly authorized representatives have inspected and subsequently approved the surface preparation in accordance with these specifications.
- b) NIA or their designated Inspectors shall undertake from time to time, inspection of the painting works while it is in progress. NIA shall be at liberty to reject outright any deviation to material specifications and procedure noted during inspection.
- c) Notwithstanding such inspection, the Contractor shall be held responsible for the acceptability of the finished work.

F. SHIPMENT OF FABRICATED WORKS TO PROJECT OFFICE

1. Shipment of fabricated works to the Project Office should be made only upon issuance of pre-delivery inspection and acceptance report to the fabricator/manufacturer by the NIA Office.
2. The Project Office reserves the right to conduct its own final inspection upon arrival at the project office before issuance of final acceptance report and any findings made thereat should be noted in the final inspection report for appropriate action by the Central office.

G. FIELD PAINTING

The fabricator/manufacturer shall retouch or repair areas of shop painted surfaces that have been damaged during transportation to site. Painting materials to be used in field repairs/retouch shall be of the same type and quality with the ones used in shop painting. The surfaces shall be cleaned to the base metal before applying such field paints.

H. MANUALS

The fabricator/manufacturer shall prepare and furnish NIA and the installation contractor's staff, the installation procedure, operation, and maintenance manuals for all of the works as provided for in the Contract Documents.