



Republic of the Philippines
 NATIONAL POLICE COMMISSION
NATIONAL HEADQUARTERS, PHILIPPINE NATIONAL POLICE
OFFICE OF THE CHIEF, PNP
 Camp BGen Rafael T Crame, Quezon City

DEC 31 2020

MEMORANDUM CIRCULAR
 NO.: 2020-093

**PRESCRIBING THE MINIMUM TECHNICAL SPECIFICATIONS
 FOR BOOM TRUCK**

MARY GRACE B NASDOMAN
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 Asst. Chief, PPPD

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1. REFERENCES:

- a. NAPOLCOM Memorandum Circular (MC) No. 2019-002 entitled, "Defining the Duty and Authority of the NAPOLCOM to Prescribe Minimum Standards for Uniforms, Arms, and Equipment to be Procured by the Philippine National Police" dated January 29, 2019;
- b. NAPOLCOM Resolution No. 2020-0409 entitled, "Prescribing the Minimum Standards for Boom Truck" dated June 17, 2020; and
- c. UESB Resolution No. 2020-035 entitled, "Approving the Proposed Technical Specifications for Boom Truck" dated November 24, 2020.

2. RATIONALE:

This MC sets forth the technical specifications for Boom Truck to be used by the PNP in lifting personnel and equipment during electrical installations, electrical troubleshooting, trimming of tree branches, setting up decorations on high structures, and other usages that are deemed applicable.

3. SITUATION:

With the approval of NAPOLCOM Resolution No. 2020-0409 (Prescribing the Minimum Standards for Boom Truck), the PNP needs to formulate the minimum technical specifications for Boom Truck, which will be the basis for its procurement and ensuring that the said specifications comply and conform with the minimum standards and pertinent provisions of Republic Act No. 9184, otherwise known as the "Government Procurement Reform Act".

The PNP recognizes the importance of Boom Truck. It is being used by the PNP over the past years in the maintenance and beautification of police camps specially during Christmas and New Year's season and other special occasions celebrated by the PNP.

4. PURPOSE:

To provide and establish the technical specifications for Boom Truck that will serve as reference in the procurement of said vehicle.

5. DEFINITION OF TERMS:

- a. Boom Truck – generally refers to a hydraulic crane mounted onto commercial truck chassis.
- b. Outrigger – refers to a beam which extends from the lower works of the crane to increase the crane's stability. The beams may be either extendible/retractable or fixed length and typically utilize some type of pad to distribute loads to the ground surface.
- c. Outrigger Pad – refers to a wood, metal, or synthetic structural element that is placed on the supporting surface and on which bears the crane's float that is used to distribute the outrigger load over a large area.
- d. Inclinator – refers to a device for measuring the angle of inclination of something, specially from the horizontal.
- e. Platform – refers to a raised level surface on which people or things can stand.
- f. Brake – refers to a mechanical device that inhibits motion by absorbing energy from a moving system. It is used for slowing or stopping a moving vehicle, wheel, axle, or to prevent its motion, most often accomplished by means of friction.
- g. Suspension – refers to the system of springs and shock absorbers by which a vehicle is supported on wheels.

6. GUIDELINES:

a. SPECIFICATIONS:

a. Description

This Boom Truck is a six-wheeled vehicle with boom lift and safety enclosure for personnel on board the boom, with hydraulic boom system capable of safely lifting a person and/or equipment and rotates 360 degrees and with hydraulic outrigger jacks at the four ends of the backload flatbed.

b. Technical Specifications

1. Engine

- a. Fuel : Diesel
- b. Engine Displacement : 4000cc
- c. Horsepower : 140hp
- d. No. of Cylinder : 4

2) Transmission

: 5-speed

3) Tires

: Manufacturer's standard

4) Steering System

: Left-hand drive, power assisted

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- 5) Overall length : 6320mm
- 6) Gross vehicle weight : 7,500kgs
- 7) Overall width : 1,955mm
- 8) Wheelbase : 3,380mm
- 9) Color and markings : White and must conform to the latest approved resolution for color and markings

REAR BODY

- 10) Working height : 12 meters
- 11) Platform floor height : 11 meters
- 12) Horizontal reach : 6 meters
- 13) Up-and-over reach : Capable, at least 16 ft. platform height (ground to platform floor) with upper boom at 0-degree horizontal position fully extended to 20ft reach with 440-lb load on platform.
- 14) Insulation test level : 100 kv AC
- 15) Insulating rating : 46 kv AC, as per ANSI Category "C"
- 16) Upper boom fiberglass : 158"
- 17) Lower boom fiberglass insert : 36"
- 18) Lower boom insulation gap : 15.5"
- 19) Upper controls : 4-function single stick and Platform Rotator 21.
- 20) Lower controls : Multi levers
- 21) Boom sections : 3
- 22) Boom material : Boom and mid sections – steel, top section-fiberglass
- 23) Boom action : Telescopic – articulating combination
- 24) Lower boom angle range : 0-68 degrees
- 25) Upper boom angle range : -14 to 80 degrees
- 26) Upper boom fiberglass : 158"
- 27) Upper boom insulation gap : 62"
- 28) Boom rotation : 360 degrees
- 29) Lower boom material handling : 1,000-lb capacity
- 30) Platform capacity : 2-man, 440 lbs
- 31) Platform insulation : Inner bucket tested at 50kv, polyethylene material
- 32) Platform rotation : 180 degrees (90 degrees left & 90 degrees right)
- 33) Platform size : 24" x 48" x 42"
- 34) Platform make : Fiberglass, with outside step for Ingress
- 35) Platform floor : Non-skid scuff pad with inside step for egress

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- | | | |
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| 36) Platform tilt control | : | Upper and lower |
| 37) Hydraulic tool outlet at platform | : | Provided, two (2) outlets |
| 38) Tool tray | : | 19" x 8" x 7" |
| 39) Harness and lanyard | : | Provided, two (2) sets |
| 40) Platform and control cover | : | Included |
| 41) Engine start/stop control | : | Provided at upper and lower controls |
| 42) Engine throttle | : | Provided at upper and lower |
| 43) Outriggers | : | Two (2) pairs (one pair behind cab and one pair at rear) |
| 44) Outrigger controls | : | Individually or simultaneously activated |
| 45) Outrigger-boom interlock | : | To operate the boom, the outriggers must be extended and to further operate the outriggers, the boom must be stowed |
| 46) Outriggers sag sensor with light | : | Provided at each outrigger leg with light at dashboard (alerts driver if any outrigger is not properly stowed) |
| 47) Outrigger motion alarm | : | Provided |
| 48) Outrigger pads | : | 24" x 24" x 2 1/4" laminated wood with rope handle, 4pcs |
| 49) Boom stowed protection system | : | Provided |
| 50) Diagnostic aid | : | Aerial truck monitoring system |
| 51) Emergency pump | : | Included, 12/24-volt DC |
| 52) Grounding | : | Spring rewind reel with 65 ft. of 1/0 cable and clamp |
| 53) Safety valves | : | Holding valves, check valves, relief valves |
| 54) Level gauge/inclinometer | : | Three (3) pcs., +/- 5 degrees |
| 55) Sight and temperature gauge | : | Included, at hydraulic oil tank |
| 56) Wheel chocks | : | 2 pcs., rubber |
| 57) Manuals, 1 set | : | Operation and service manuals with parts catalog |
| 58) Warning decals | : | Provided |
| 59) Mounting | : | Over rear axle (boom stows over cab, platform stows at rear deck) |
| 60) Air conditioner | : | Included (main cab and crew cabin) |
| 61) AM/FM radio | : | Included |

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TRUCK BODY

- 62) All steel type with the following features:
- Checkered plate deck with tubular steel railings;
 - Two (2) toolboxes with stainless steel hinges and door latches, lamp for each compartment, aluminum checkered plate top, keyed; Pintle hook at rear.

SECONDARY CREW CABIN

- 63) Installed behind main cab with the following features:
- Swing-out door at left and right sides;
 - Sliding windows (right/left sides and rear);
 - Fixed glass at front;
 - Double walled with upholstery and insulation;
 - Bench seat, at least 3-seating capacity, fold-up;
 - Cabin lamp with 3-way switch;
 - Air conditioned.

- 64) Work light : LED, 12/24-volt, fixed type
65) Beacon light : LED, 12/24-volt, amber, fixed type
66) PA system : included
67) The vehicle must be provided with spare tire with rim and standard set of tools (tire wrench, jack, pliers, screw driver, etc).
68) Items/data in the brochure/technical specifications shall form part of the standard offer.
69) Must pass the PNP Test and Evaluation.


7. REPEALING CLAUSE:

All other technical specifications contrary to or inconsistent with the provisions of this PNP MC are hereby rescinded, modified or amended.

8. EFFECTIVITY:

This MC shall take effect after 15 days from filing a copy thereof at the UP Law Center in consonance with Section 3, Chapter 2, Book VII of Executive Order 292 otherwise known as the "Revised Administrative Code of 1987," as amended.




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