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July 2017

**RE-EVALUTION OF ROOTER ROAD (ROAD ROLLER)**

Reference:

A. Army Headquarters, Engineer in Chief's Branch, Engineer Directorate letter number 23.01.901.055.02.192.03.13.07.17/Rd Roller dated 13 July 2017.

It is to inform you that standardization of suitable models of **Rooter Road (Road Roller)** for adoption in Bangladesh Army is under process. Therefore, all interested Firms/Suppliers are requested to forward necessary offer, brochures, catalogues, technical/training/operational/maintenance manuals and price list etcetera (each in duplicate) against each model directly to AHQ, E-in-C's Branch, Engineer Directorate by 22 July 2017. Offered models should be compatible with specification attached with this letter. Lack of any information will disqualify the offer.



SYED ASHIQUL ISLAM  
Major  
For Director General

Enclosure:

1. 02 Pages Technical Specification.

Distribution:

External:

Action:

(All Concerned Firm/Supplier)

Information:

Army Headquarters  
E-in-C's Branch  
Engineer Directorate

Internal:

Action:

IT Section - (For sending to enlisted Supplier/Firm with DGDP through email).

Notice Board

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ANNEX A TO  
 ARMY HEADQUARTERS, ENGINEER IN CHIEF'S BRANCH  
 ENGINEER DIRECTORATE LETTER NUMBER  
 23.01.901.055.02.192.03.13.07.17  
 DATED 13 JULY 2017

**TECHNICAL SPECIFICATION OF ROOTER ROAD (ROAD ROLLER) (8.1 TO 12 TON)**  
**[Approved in General Staff Policy Committee Meeting 2/2013]**

| Ser | Description                                   | Required Technical Specification   | Remarks |
|-----|---|--|---------|
| 1.  | Name of the Equipment                         | Rooter Road (Road Roller) (8.1 To 12 Ton)  |         |
| 2.  | Name and Complete Address of the Local Agent  | To be mentioned  |         |
| 3.  | Name and Complete Address of the Manufacturer | To be mentioned  |         |
| 4.  | Name and Address of the Principal             | To be mentioned  |         |
| 5.  | Make and Model                                | To be mentioned  |         |
| 6.  | Type  | Vibratory Asphalt Compactor  |         |
| 7.  | Country of Origin                             | USA, Canada, UK, Austria, Belgium, Denmark, Finland, Germany, France, Hungary, Italy, Ireland, Netherlands, Sweden, Norway, Switzerland, Spain, Japan, Australia, Turkey and South Korea |         |
| 8.  | Country of Manufacturer                       |  |         |
| 9.  | Country of Assembly                           |  |         |
| 10. | Year of Production                            | Maximum 1 year before the contract   |         |
| 11. | Drive   | Centre Drive   |         |
| 12. | <b>Dimensions</b>                             |  |         |
|     | a. Overall Length                             | Min 4500 mm  |         |
|     | b. Overall Width                              | Min 1750 mm  |         |
|     | c. Overall Ht                                 | Min 2850 mm  |         |
|     | d. Wheel Base                                 | Min 3200 mm  |         |
| 13. | <b>Engine</b>                                 |  |         |
|     | a. Make & Model                               | To be mentioned  |         |
|     | b. Type                                       | Diesel, Liquid/Air cooled  |         |
|     | c. Country of Origin                          | USA, Canada, UK, Austria, Belgium, Denmark, Finland, Germany, France, Hungary, Italy, Ireland, Netherlands, Sweden, Norway, Switzerland, Spain, Japan, Australia, Turkey and South Korea |         |
|     | d. Year of Production                         | Maximum 1 year before the contract   |         |
|     | e. Engine volume/Capacity (in CC)             | To be mentioned  |         |
|     | f. Rated Horse Power                          | Minimum 115 HP @ minimum 2200 rpm  |         |
|     | g. Min Torque at rated rpm                    | Minimum 470 N-m @ minimum 1500 rpm   |         |
|     | h. No of Cylinder                             | Minimum 4 Cylinder   |         |
|     | j. No of Cycle/stroke                         | 4 Stroke   |         |
|     | k. Bore & Stroke                              | Minimum 100 mm x 120 mm  |         |
|     | l. Engine test bench certificate              | To be provided during inspection of equipment  |         |
| 14. | Fuel tank Capacity                            | Minimum 180 Litre  |         |
| 15. | Fuel Consumption                              | To be mentioned  |         |
| 16. | <b>Drum</b>                                   |  |         |
|     | a. Type                                       | Double drum, Asphalt Compactor   |         |
|     | b. Drum width                                 | Minimum 1650 mm  |         |
|     | c. Drum diameter                              | Minimum 1150 mm  |         |
|     | d. Drum shell thickness                       | Minimum 17 mm  |         |
|     | e. Scrapper for both drum                     | To be provided   |         |
|     | f. <b>Weight</b>                              |  |         |
|     | (1) At front drum                             | Minimum 4500 kg  |         |
|     | (2) At rear drum                              | Minimum 4400 kg  |         |
| 17. | Capacity of Water Tank                        | Not less than 400 liter in each drum   |         |
| 18. | Water Sprinkling System                       | To be mentioned  |         |



| Ser | Description   | Required Technical Specification   | Remarks |
|-----|---|--|---------|
| 19. | <b>Vibrating System</b>   |  |         |
|     | a. Vibration type & drive   | To be mentioned  |         |
|     | b. Vibration frequency (Hz)   | Range to be mentioned  |         |
|     | c. Vibration centrifugal force (kN)   | To be mentioned  |         |
| 20. | <b>Turning Radius (Maximum)</b>   |  |         |
|     | a. Inside drum edge   | Not less than 3950 mm  |         |
|     | b. Outside drum edge  | Not more than 7350 mm  |         |
| 21. | Steering  | Power Steering   |         |
| 22. | Frame   | Oscillating, Articulated   |         |
| 23. | Operating weight  | 8100-12000 Kg  |         |
| 24. | Gradient/Gradeability   | Not less than 30% (Without vibration)  |         |
| 25. | <b>Speed</b>  |  |         |
|     | a. Fwd  | Not less than 06 Km/h  |         |
|     | b. Reverse  | Not less than 06 Km/h  |         |
| 26. | Cabin   | Cabin with ROPS to be provided   |         |
| 27. | <b>Brake System</b>   |  |         |
|     | a. Svc brake  | Hydrostatic  |         |
|     | b. Parking brake  | Mechanical/Hydraulic   |         |
| 28. | <b>Electric System</b>  |  |         |
|     | a. Volt   | 12/24 Volt   |         |
|     | b. Battery (Volt and Ah)  | 12 Volt/2x12 Volt & Ah to be mentioned   |         |
|     | c. Alternator (Volt and Amp)  | 12/24 Volt & Amp to be mentioned   |         |
|     | d. Starter (Volt and Kw)  | 12/24 Volt & Kw to be mentioned  |         |
| 29. | Lights & Gauges   | All lights & gauges include head light, Tail light, Stop light, Indicator light, Working (flood) light, Horn, hr meter, Freq meter, Tachometer, Battery indicator, Engine oil pressure, Engine temp, Hydraulic oil gauge, Back up alarm and Bacon to be provided |         |
| 30. | Standard Accessories  | All standard accessories required to make the equipment fully operation (List to be submitted with part no and cost).  |         |
| 31. | Standard Tools  | All standard tools require for complete maintenance of the equipment (List to be submitted with cost).   |         |
| 32. | Optional Item (if any)  | List with cost to be mentioned   |         |
| 33. | Info about POL used in the equipment  | To be mentioned  |         |
| 34. | Colour  | As per tender requirement  |         |
| 35. | ISO Certificate or Similar Rating   | To be mentioned  |         |
| 36. | Operational Temperature   | Details to be mentioned  |         |
| 37. | Maintenance   | Details to be mentioned  |         |
|     | <b>Note:</b> Following information's/documents to be supplied along with the offer: |  |         |
|     | a.  | Details of working principle.  |         |
|     | b.  | Functional/Users training in country to be provided by foreign/Local expert.   |         |
|     | c.  | Provision of supply of major spares for minimum 10 years.  |         |
|     | d.  | Provision of supply fast and slow moving spares for minimum 10 years.  |         |
|     | e.  | Model validity in years (minimum 10 years).  |         |
|     | f.  | List of spares, Special Service Tools (SST)/Special Service Material (SSM)   |         |
|     | g.  | Any other relevant technical information may also be enclosed.   |         |