

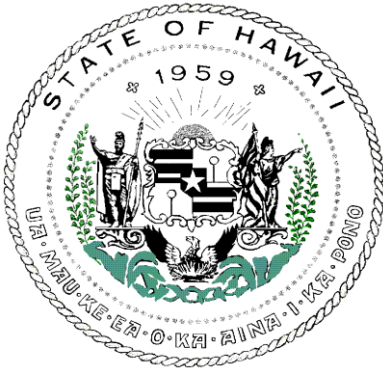
SEALED OFFERS

INVITATION FOR BID  
Single Drum Vibratory Road Compactor

FOR  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
DIVISION OF FORESTRY AND WILDLIFE  
HAWAII DISTRICT

HIePRO IFB  
B23002071

**NOTICE TO ALL OFFERORS**



# STATE DEPARTMENT OF LAND AND NATURAL RESOURCES

## INVITATION FOR BIDS HiePRO IFB B23002071

### SEALED OFFERS

Single Drum Vibratory Road Compactor

FOR  
DEPARTMENT OF LAND AND NATURAL RESOURCES,  
DIVISION OF FORESTRY AND WILDLIFE  
HAWAII DISTRICT

WILL BE RECEIVED UP TO AND OPENED AT 4:00 P.M. (HST) ON

APRIL 18, 2023

THROUGH THE STATE OF HAWAII ELECTRONIC PROCUREMENT SYSTEM (HIEPRO).

## OFFER FORM

Offeror is requested to fill out Offer Form along with Specifications For Smooth Drum Vibratory Compactor and upload as attachment to HlePRO Offer submission. Please use offeror's exact legal name as registered with the Department of Commerce and Consumer Affairs, if applicable; and to indicate exact legal name in the appropriate space.

### OFFEROR SHALL FURNISH THE FOLLOWING INFORMATION:

Company Name: \_\_\_\_\_

Company Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Repair and Maintenance Facility Address:  
\_\_\_\_\_

## SPECIFICATIONS FOR SMOOTH DRUM VIBRATORY COMPACTOR

The Smooth drum compactor purchased under these specifications shall be a new, current production model designed and built for compaction of flexible cohesive and semi-cohesive soils. These specifications are minimum requirements and are intended to govern the size and type of unit purchased. Any exceptions or variations from these basic specifications must be stated. Failure to completely describe the equipment bid herein may result in rejection of the entire bid. The right is reserved to evaluate variations from these specifications and to award the contract for the compactor, which best fits the needs for the overall application parameters.

### GENERAL

Unit shall be a self-propelled, Smooth drum design for use in compaction of cohesive and semi-cohesive fill materials. Smooth : drum and tires shall be driven to provide optimum traction and gradeability.

### OPERATING WEIGHT

Operating weight, including lubricants, coolants (when required), fuel, cab with Roll-Over Protective Structure (ROPS) and operator shall be a minimum of 27,898 pounds.

Operating Weight \_\_\_\_\_ lb

### ENGINE

Water cooled diesel engine with minimum of 154 hp at installed governed speed. Yes \_\_\_\_\_ No \_\_\_\_\_

Minimum 58 gallon fuel tank capacity. Yes \_\_\_\_\_ No \_\_\_\_\_

Two stage heavy duty dry air filter with restriction indicator. Yes \_\_\_\_\_ No \_\_\_\_\_

Ground level, engine oil, air filter and coolant inspection and service capability. Yes \_\_\_\_\_ No \_\_\_\_\_

Minimum 45 ampere alternator. Yes \_\_\_\_\_ No \_\_\_\_\_

Heavy duty battery with total of 200 ampere-hour rating. Yes \_\_\_\_\_ No \_\_\_\_\_

Instrumentation to include hourmeter plus indicators for engine oil pressure, engine temperature, parking brake, hydraulic oil filter restriction, air filter restriction, electrical charge, and fuel tank capacity. Yes \_\_\_\_\_ No \_\_\_\_\_

Automatic shutdown for low oil pressure and high water temperature. Yes \_\_\_\_\_ No \_\_\_\_\_

### DRUMS

Minimum 84" rolling width and 58" diameter; Yes \_\_\_\_\_ No \_\_\_\_\_

Minimum 1.00" drum shell thickness ensuring strength and long wear life. Yes \_\_\_\_\_ No \_\_\_\_\_

### 6 Piece - Bolt On/Off Grid Shell Kit

Scraper bars to be located at both front and rear of the drum, maintaining a cleaning action for both forward and reverse travel directions. To be adjustable. Yes \_\_\_\_\_ No \_\_\_\_\_

Drum to be suspended within roller frame by a set of shock absorbing rubber elements.

Yes \_\_\_\_\_ No \_\_\_\_\_

### **DRIVE**

Hydrostatic drive to both front drum and planetary drive axle.

Yes \_\_\_\_\_ No \_\_\_\_\_

Tire drive shall incorporate a Non-Spin differential.

Yes \_\_\_\_\_ No \_\_\_\_\_

Tires shall be 23.1-26/12PR tractor bar tread.

Yes \_\_\_\_\_ No \_\_\_\_\_

ASC Traction System for optimum traction performance.

Yes \_\_\_\_\_ No \_\_\_\_\_

Hydraulic system to be safe-guarded by a 12 micron absolute rated oil filter.

Yes \_\_\_\_\_ No \_\_\_\_\_

Speed range offering compaction and transport speeds to a minimum of 8.7 mph.

Yes \_\_\_\_\_ No \_\_\_\_\_

### **BRAKES**

Service braking to be within hydrostatic drive system design.

Yes \_\_\_\_\_ No \_\_\_\_\_

Independent Spring-Applied, Hydraulically-Released multiple disc emergency and parking brakes on each axle shaft. For safety, failure of one SAHR brake must not affect operation of the other.

Yes \_\_\_\_\_ No \_\_\_\_\_

Parking brake engaged indicator to be on operators console.

Yes \_\_\_\_\_ No \_\_\_\_\_

### **VIBRATION SYSTEM**

Minimum 2 amplitude settings of 0.037" and 0.071".

Yes \_\_\_\_\_ No \_\_\_\_\_

Minimum of 67,442 pounds centrifugal force in high amplitude settings.

Yes \_\_\_\_\_ No \_\_\_\_\_

Vibration frequency to be a minimum of 2160 vpm in low amplitude.

Yes \_\_\_\_\_ No \_\_\_\_\_

Oil bath eccentric bearing lubrication for reduced maintenance requirements.

Yes \_\_\_\_\_ No \_\_\_\_\_

Thumb button vibration stop/start switch located on drive lever for operator comfort.

Yes \_\_\_\_\_ No \_\_\_\_\_

Hydrostatic direct eccentric drive to the drum minimizing maintenance costs.

Yes \_\_\_\_\_ No \_\_\_\_\_

### **FRAME**

Articulation joint to be completely maintenance free.

Yes \_\_\_\_\_ No \_\_\_\_\_

Tires to track within drum width for stability and safety on embankment edge and roadway shoulder applications.

Yes \_\_\_\_\_ No \_\_\_\_\_

Oscillation  $\pm 12$  degrees minimum to ensure drum and tires contact on irregular terrain.

Yes \_\_\_\_\_ No \_\_\_\_\_

Articulation  $\pm 35$  degrees for optimum maneuverability. Yes  No

Drive motors, hydraulic hoses and access steps to be located within drum frame width. Yes  No

External drain points for engine oil, coolant and hydraulic oil. Yes  No

### **CLEARANCES**

Minimum 19.3" all around curb clearance. Yes  No

Drum edge to outside frame lateral overhang to not exceed 2.8" on each side of roller. Yes  No

Inside turning radius at drum to be approximately 137.6". Yes  No

Overall length shall not exceed 230". Yes  No

Overall width shall not exceed 89.4". Yes  No

### **MAINTENANCE**

Hydraulic test ports for travel/vibration/steering. Yes  No

Articulation lock to avoid pinching during service or transport. Yes  No

No grease daily maintenance points. Yes  No

### **OPERATOR'S PLATFORM**

Platform to be vibration and shock-isolated by a series of rubber mounts. Yes  No

Operator's seat is to be fully adjustable. Yes  No

Drive lever to incorporate forward/neutral/reverse travel selection and vibration stop/start. Yes  No

Instrument and controls to include: Hourmeter, Acoustic horn, Ignition switch, Back-up alarm and a Lockable vandal cover for instrument protection. Yes  No

### **CAB WITH ROPS/FOPS**

ROPS/FOPS that meets or exceeds current safety standards, and to include seat belts. Yes  No

Cab to be equipped with heat and A/C Yes  No

**cab to be equipped with swivel seat and adjustable steering column**

Includes Economizer Compaction System, Which Enables operator to Continuously monitor compaction progress or similar product