

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION
AND
DEVELOPMENT



TECHNICAL SPECIFICATIONS FOR
UNDER-TAILGATE SHOULDER SPREADER
SERIES NO. 221-800

Equipment Specification 221-800A

WARNING TO BIDDERS:

Bidder should complete every item described in detail in the "Specification Descriptions" section by either entering a check mark in the space provided to indicate the item being bid is exactly as specified or bidder should enter a written description to indicate any proposed item which will deviate from the specifications.

THIS SPECIFICATION SHOULD BE EXECUTED IN ACCORDANCE WITH THE ABOVE INSTRUCTIONS AND RETURNED ALONG WITH BID AND LITERATURE TO BE CONSIDERED FOR AN AWARD.

ITEM I/D	SPECIFICATION DESCRIPTIONS	BIDDER'S PROPOSAL
General	<p>These specifications describe the minimum requirements for a UNDER-TAILGATE SHOULDER SPREADER. <u>Any proposed value that is less than a minimum requirement will not be accepted.</u></p> <p>This equipment shall be new, a production model of current manufacture, and must meet all state and Federal safety standards in effect at time of delivery.</p> <p><u>Any additions, deletions, or variations from the following specifications should be noted in the Bidder's Proposal.</u> Any items appearing in the manufacturer's regular published specifications furnished by the Bidder are assumed to be included in the "Bidder's Proposal." <u>Any additions, deletions or variations from the manufacturer's regular published specifications should be outlined in an attached letter.</u></p>	
Typical Specifications	<p>A Concord CRE 960-18B, with appropriate options, was used to develop these Specifications.</p> <p>Equipment of similar style, type, character, quality, features, and purpose conforming to the following detailed requirements/specifications will be considered. To that end and prior to award, the vendor must provide upon request any necessary manufacturer information (catalogue sheets, detailed specifications, pictures, etc.) for any of the exceptions taken on the bid proposal. This information will be evaluated to determine if the aforementioned exception(s) are equal.</p> <p>These specifications used the standard options/features of the above listed items as the basis and minimum requirements for establishing equivalency.</p> <p>The item(s) listed above with all appropriate manufacture standard options, were used to develop these specifications.</p>	

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Workmanship	<p>Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship, by either the vendor or the original manufacturer. Any defect/nonconformity, so noted, may be corrected by the vendor to the satisfaction of the Equipment Engineer or his representative. All defect/nonconformity corrections must be completed before invoices can be processed for payment.</p> <p>Vendor installation of any portion of equipment unit(s) should be stated in "Bidder's Proposal". Failure to note such installations can result in rejection of the unit(s) at the time of delivery.</p> <p>Note: Bidder shall have a facility in the State of Louisiana with properly trained technicians plus all other resources necessary to perform warranty service on the truck chassis portion of this piece of equipment. All such service must be performed in complete accordance with the truck manufacturer's requirements, and a letter to certify this ability may be required.</p>	
Note	All Values listed below are minimums unless noted.	

ITEM I/D	SPECIFICATION DESCRIPTIONS	BIDDER'S PROPOSAL
UNDER-TAILGATE SHOULDER SPREADER		
General	<ul style="list-style-type: none"> • A Concord CRE 960-18B or equal • A berming machine mounted to the back of a dump truck • Hydraulically driven and capable of discharging material to either end of the machine 	
Material Hopper Dimensions	<ul style="list-style-type: none"> • 98" Hopper length, stowed chute • 26.5" Hopper width, outside dimensions • 18.75" Hopper width, inside dimensions • 19" Hopper height, overall • 7" backguard height 	
Material Hopper Construction	<ul style="list-style-type: none"> • Front and rear panels and the backguard shall be constructed of 3/16" HRS. • The backguard shall be supported with 7 equally spaced gussets constructed of 1/4" HRS. • End plates shall be constructed of 3/8" HRS. • Hopper cross supports shall be full width between convex rollers and be 1/4" X 8" formed steel channels. 	
Conveyor Sealing Skirt	<ul style="list-style-type: none"> • Conveyor to truck sealing skirt <ul style="list-style-type: none"> ○ It shall be attached directly to upper front flange of material hopper. ○ It shall be attached in such a way that as dump body angles increase the sealing skirt obtains a tighter seal against dump body spreader apron. 	
Conveyor Belt	<ul style="list-style-type: none"> • Two ply X 3/8" thick X 18" wide • Capable handling various aggregates • Capable of withstanding high temperatures <ul style="list-style-type: none"> ○ i.e. hot asphalt. • Conveyor belt shall have 1/8" underlay by 3/16" overlay 	

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Conveyor System Rollers	<ul style="list-style-type: none"> • Six (6) crowned, drum-type conveyor rollers. • One (1) drive roller <ul style="list-style-type: none"> ○ 6" in diameter by 18" long ○ Drive roller shafts shall be 1" in diameter ○ It shall be covered by 1/4" spiral wrapped lagging. ○ It must be adjustable for conveyor belt tightness and tracking • One (1) adjustable take-up roller <ul style="list-style-type: none"> ○ 6" in diameter by 18" long ○ Take-up roller shafts shall be 1" in diameter ○ It must be adjustable for conveyor belt tightness and tracking ○ Shall be held in place by heavy duty wide slot conveyor bearings <ul style="list-style-type: none"> ▪ The wide slot conveyor bearings shall ride in 1/2" X 3/4" heavy duty bar stock slide rails • Four (4) idler rollers, <ul style="list-style-type: none"> ○ 4" in diameter by 18" long ○ Idler roller shafts shall be 1" in diameter • All conveyor rollers shall be held in place by external flange-type bearings with grease zerks. • NOTE: Bearings built into the hub of conveyor rollers are not acceptable. • All external flange bearing units and conveyor shaft ends shall be covered by a easily removable shield • There shall be a lower return roller 1" in diameter that the top of the conveyor belt rides on. • Conveyor to truck sealing skirt <ul style="list-style-type: none"> ○ It shall be attached directly to upper front flange of material hopper. ○ It shall be attached in such a way that as dump body angles increase the sealing skirt obtains a tighter seal against dump body spreader apron. 	

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Conveyor Drive System	<ul style="list-style-type: none"> • Shall be achieved through the use of a roller/stator type hydraulic motor • The conveyor drive roller shall be coupled through the use of a No. 50 chain and sprocket reduction. <ul style="list-style-type: none"> ◦ The drive reduction shall be 2:1. • All drive components, i.e. sprockets, chains, etc., shall be completely enclosed in a 10 gauge cover. • Conveyor drive shall not be accessed without removal of drive cover • The hydraulic variable speed control valve shall be located at the rear of the machine on the backguard so that the unit can be controlled from the rear of the machine. • The variable speed control valve shall also be capable of moving from one end of the machine backguard to the other. • The conveyor belt shall be capable of reversing in direction by means of two quick couplers located in the lower center of machine hopper. • All hydraulic hoses and fittings shall be furnished and installed between the hydraulic motor to the machine mounted variable speed control valve and to a junction point to where the unit would be connected to the hydraulic power pack. 	
Material Chute & Discharge Doors	<ul style="list-style-type: none"> • There shall be a heavy duty material chute that is capable of being installed at either end of berming machine. • It shall be designed to rotate under material hopper and be carried in a position to stay within a 102" overall width. • With the material chute turned out to a working position the overall width shall be 107". • The material chute shall be constructed of 3/16" steel, 24" long X 20" wide with 4" sides. • The material hopper shall be provided with discharge doors at both ends of the machine. • The doors shall be of the top hinge design and lockable in both the closed or open position. • The discharge doors shall be furnished with a rubber sealing skirt. 	

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Leg & Winch Group	<ul style="list-style-type: none"> • Shall consist of <ul style="list-style-type: none"> ○ One (1) pair of fold up legs, ○ One (1) set of cable winches, and ○ One (1) set of chain brackets • The leg and winch group shall allow user to change berming machine from one vehicle to another without the use of tools or lifting equipment. • Cable winches shall have a minimum capacity of 2500 lbs. each and be of the <ul style="list-style-type: none"> ○ Worm gear type. ○ Winch cables shall be 3/8" in diameter wire rope with 3/8" grab hooks at the end of each cable. • There shall be two (2) chain brackets that mount in place of the standard slide arms. <ul style="list-style-type: none"> ○ Chains shall be 3/8" diameter links. 	
Hydraulic Option	<ul style="list-style-type: none"> • A manually operated hydraulic flow control valve shall be installed on the rear of the berming machine. <ul style="list-style-type: none"> ○ It shall allow the operator to adjust the belt speed from the rear of the machine. • A hydraulic hose kit shall be provided for connecting the berming machine to the host vehicles hydraulics • The host vehicle will have dual remote hydraulic outlets and quick connects located at back end of truck frame within 6ft of where the berming machine will be mounted 	
Lights	<ul style="list-style-type: none"> • LED stop-tail-turn and 3 light ID cluster recessed into rear bearing cover of berming machine • Includes LED lighting and 4 wire pigtail for connection to chassis trailer lighting receptacle 	
Paint	<ul style="list-style-type: none"> • The unit is to be properly prepared for painting and to have at least one coat of sealer/primer and two finish coats of enamel paint. • Unit is to be manufacturer's standard color. 	

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Operation	Unit(s) must have been test run by the vendor for proper operation of all features and capabilities of the make and model described in the successful bidder's proposal, and documentation for verification of the test(s) may be required prior to acceptance by DOTD.	
Delivery	Unit(s) delivered to DOTD must be completely assembled (including but not limited to all components, accessories, etc.) and ready for operation. Unit(s) must be delivered "on the ground;" DOTD will not unload from any trucks, trailers, vans, etc. Note: LADOTD will have space available for successful bidder to unload.	
Serviced	<ul style="list-style-type: none"> • All dealer Pre Delivery Inspection (PDI) must be completed prior to acceptance. • All fluid levels are to be at full mark. • Fuel tank(s) to be full. • Any necessary lubrication performed etc. 	
Parts	Vendor should attach to bid a listing of the Louisiana locations where parts and service can be obtained.	
Descriptive Literature	<p>TWO (2) COPIES OF DESCRIPTIVE PRODUCT ADVERTISEMENT-LITERATURE (BROCHURES) SHOULD BE FURNISHED WITH BID.</p> <p>Two (2) copies of the "Build Sheet" should be supplied with each unit. The build sheets should include all standard & optional features of the delivered unit. The build sheet should be in plain language not company specific item codes.</p>	

ITEM I/D	SPECIFICATION DESCRIPTIONS	BIDDER'S PROPOSAL
Miscellaneous Requirements	<p>Vehicle shall comply with Louisiana state and federal emission requirements in effect at time of delivery.</p> <p>EACH PIECE OF EQUIPMENT WILL BE ACCOMPANIED BY:</p> <ol style="list-style-type: none"> 1. Certificate of Origin 2. Dealer's Service Policy 3. Owner's/Operator's Manual 4. A notarized Bill of Sale (two per unit) 5. Service Manual(s) 6. Copies of all manufacturer's standard product warranties <p>Invoices will not be processed for payment until the delivered unit passes inspection for specification compliance.</p>	
Note:	TIME OF DELIVERY MAY BE CONSIDERED IN DETERMINING SUCCESSFUL BIDDER	