



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Public Works and Government Services / Travaux
publics et services gouvernementaux
Kingston Procurement
Des Acquisitions Kingston
86 Clarence Street, 2nd floor
Kingston
Ontario
K7L 1X3
Bid Fax: (613) 545-8067

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services / Travaux
publics et services gouvernementaux
Kingston Procurement
Des Acquisitions Kingston
86 Clarence Street, 2nd floor
Kingston
Ontario
K7L 1X3

Title - Sujet Boom Truck - Peterborough, ON	
Solicitation No. - N° de l'invitation 5P300-180423/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client 5P300-18-0423	Date 2018-09-28
GETS Reference No. - N° de référence de SEAG PW-\$KIN-630-7556	
File No. - N° de dossier KIN-8-50018 (630)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-10-11	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Holt, Judy	Buyer Id - Id de l'acheteur kin630
Telephone No. - N° de téléphone (613) 536-4995 ()	FAX No. - N° de FAX (613) 545-8067
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

This amendment is issued to solicitation 5P300-180423/A to answer the following questions and make amendments to Annex D, Mandatory Technical Requirements and Annex A, Requirement:

A. Questions from Industry and answers from Canada:

Question 1 – Re: Item : 2.11.1 Supply and install, in the space between cab and body, hydraulic articulated crane, complete with all necessary hydraulics and hardware.

Min lift capabilities

- a. At 22.9m (75ft, 5in) reach: 426 kg (940lbs)
- b. At 4.6m (15ft) reach: 13,000 kg (5900 lbs)

I believe this is a Stiff Boom Crane, not an Articulating Crane.

I believe the 4.6 m (15ft) reach; 13,000 kg (5900 lbs) is incorrect.

Response - Either stiff boom or articulated crane would be accepted and the min lift cap is 13000 lb or 5900kg.

Question 2 – Re: Item : 2.11.18 Crane to be equipped with load scale

I believe this is a (LMI) Load Moment Indicator, that shows Boom Angle and load on hook. (Is that Correct ?)

Response – Yes, an LMI scale is what is being asked for.

Question 3 - Re specification 2.1.4

The stated wheel base of 248" is too short for the crane & body, approximately 11/12 ' over hang and you have a pintle hook for towing as well. Is this a correct measurement for the wheel base?

Response – The wheelbase requirement is a non mandatory requirement so it can differ from the stated measurement.

Question 4 – Re specification 2.1.5

It is very hard to state a maximum turning radius- can this specification be revised?

Response – The maximum turning radius is a non mandatory requirement so it can differ.

Question 5 – Re specification 2.1.6

This frame is inadequate for the specified loads, suggest a heavier frame eg. 3 section modules. This is currently specified as a maximum of 20in3 with a min 110,000 psi steel this is no longer used. Would a heavier frame be acceptable?

Response – Specification 2.1.6 should not be a mandatory requirement and is amended in Section B below. It is a minimum requirement, heavier would be acceptable.

B. Amendments to Annex D, Mandatory Technical Criteria and Annex A Requirement:

B1. Reference: Annex A Requirement

Delete: In its entirety

Insert: And replace with the attached Annex A - Requirement

B2. Reference: Annex D Mandatory Technical Criteria

Delete: In its entirety

Insert: And replace with the attached Annex D – Mandatory Technical Criteria

ALL OTHER TERMS AND CONDITIONS OF THE SOLICITATION REMAIN THE SAME

ANNEX "A"

REQUIREMENT

Parks Canada, Peterborough, Ontario has a requirement for the supply, delivery and provision of training on one (1) Boom Truck as detailed herein.

ITEM	DESCRIPTION	MANDATORY	
		Yes	No
1.0	General		
1.1	Operating Conditions		
1.1.1	Vehicle must be capable of satisfactory operation in ambient temperatures from -40C to +45C.	x	
1.2	Manuals		
1.2.1	Provide two (2) hard copies of operating manuals, one (1) hard copy of the shop service manual (including engine and driveline shop manuals and chassis) and one (1) hard copy of the service and parts manual accurately identifying all components of the boom equipment supplied to the consignee.	x	
1.3	Painting		
1.3.1	Truck cab must be painted manufacturer's yellow	x	
1.3.2	Frame and flatbed must be painted black.	x	
1.3.3	Crane must be painted crane manufacturers standard color.	x	
1.4	Delivery		
1.4.1	Lubricate and service unit prior to delivery with all lubricants associated products suitable for the climate conditions in which the vehicle will operate.	x	
1.4.2	Service center for maintenance of truck and crane must not be more than 150km from Peterborough Ontario, and have all parts readily available.		x
1.5	Training		
1.5.1	Provision of training for 4 employees on boom truck supplied, including provision of certificates recognized by the Ministry of Training College and Universities.		x
2.0	Detail Requirements		
2.1	Chassis		
2.1.1	A minimum GVWR of 60 000 pounds (27,215 kg)	x	
2.1.2	A minimum front axle 20 000 pounds (9072 kg) with standard suspension	x	
2.1.3	A minimum rear axle 40 000 pounds (18,143 kg) (2 x 20,000) tandem with standard suspension	x	
2.1.4	Wheel Base: A maximum of 630 cm (248 inches)		X
2.1.5	Maximum turning radius 14m (46ft)		X
2.1.6	Maximum frame section modules of 20in3 and minimum yield strength of 110,000PSI steel.		X
2.1.7	Heavy duty front mounted tow hook(s) suitable for GVWR	x	
2.1.8	Anti-sail mud flaps mounted behind rear wheels	x	
2.1.9	Rear pintle hook with minimum 8 tons towing capacity and Reese style trailer hitch receiver minimum 5 ton capacity	x	
2.2	Engine		
2.2.1	Minimum: 6 cylinder 300 HP Diesel engine with on and off road capabilities	x	

		X	
2.2.2	Minimum: 1000 lb-ft torque	X	
2.2.3	Dry type element heavy duty air cleaner with service indicator	X	
2.2.4	Full flow oil filter	X	
2.2.5	Temperature controlled engine cooling fan	X	
2.2.6	Coolant/Antifreeze for minimum -40 degrees Celsius	X	
2.2.7	Engine Block heater, complete with connecting cord.	X	
2.2.8	Cold weather starting system	X	
2.2.9	Vertical exhaust system, stainless steel muffler		X
2.2.10	Engine to be equipped with Jake style engine brake	X	
2.3	Transmission and Final Drive		
2.3.1	Minimum: 6 speed automatic transmission construction duty with PTO provisions.	X	
2.3.2	Top speed governed at 105 kph (65mph).	X	
2.3.3	Full locking differentials	X	
2.3.4	Inter-axle lock	X	
2.3.5	Rear axle ratio appropriate to GVWR load capacity and HP	X	
2.4	Brakes		
2.4.1	Brakes to be a dual air system in accordance with CMVSS 121 or most current standard	X	
2.4.2	Airbrake Anti-lock braking system	X	
2.4.3	Air dryer	X	
2.4.4	All lines, components and fittings to meet SAE & DOT standards	X	
2.4.5	Spring activated parking brake	X	
2.4.6	All air tanks to have cable drains accessible from truck perimeter.	X	
2.5	Fuel		
2.5.1	Minimum: Single tank 80 US gallons (302 liters) fuel tank capacity.	X	
2.5.2	Primary and secondary replacement type fuel filters.	X	
2.5.3	Fuel/Water separator	X	
2.6	Wheels and Tires		
2.6.1	Steel belt radial ply tires tubeless	X	
2.6.2	Tire size to be suitable for use and load (no low profile)	X	
2.6.3	Front to be highway tread	X	
2.6.4	Rear dual to be lug tread	X	
2.6.5	Steel hub pilot wheels		X
2.7	Cab and Accessories		
2.7.1	Conventional Cab type	X	
2.7.2	Air ride Cab	X	
2.7.3	Tilt forward fiberglass hood and fenders	X	
2.7.4	Heated power adjustable mirrors – minimum 7" x 16" with convex on both sides, blindside.	X	
2.7.5	Entry/egress grab handles left and right side	X	
2.7.6	Windshield wipers, intermittent minimum two constant speeds	X	
2.7.7	Fully insulated cab to drop noise level down below 88 dBa.	X	
2.7.8	Driver and passenger air ride seats. Sufficient height in cab to provide 6 foot tall driver and passenger with clearance above head while sitting in seat adjusted to mid position.	X	
2.7.9	Right and left side sun visors.	X	
2.7.10	Air Horn	X	
2.7.11	Power windows and locks	X	
2.7.12	Fresh air ventilation and defroster.	X	
2.7.13	Dash mounted PTO switch.	X	
2.7.14	Indicator light for PTO.	X	

2.7.15	Cab interior lights.	x	
2.7.16	Air Conditioning.	x	
2.7.17	Multiple storage compartments. (e.g. doors and dash)		x
2.7.18	Console storage with lid.		x
2.7.19	Amber LED strobe light or lights, mounted with 360 degree visibility with Cab switch.	x	
2.7.20	Safety gear secured in cab – fire extinguisher, flares, and first aid kit.	x	
2.7.21	AM/FM radio	x	
2.7.22	Bluetooth hands free phone capabilities, with USB charging port and 110 AC outlet.	x	
2.8	Electrical System		
2.8.1	Full highway lighting as per highway regulations for Ontario	x	
2.8.2	High output alternator	x	
2.8.3	Heavy duty maintenance free batteries.	x	
2.8.4	Halogen headlights.		X
2.8.5	Auxiliary power outlet (12 Volt DC)	x	
2.8.6	Round 7 way trailer socket RV type (flat terminals)	x	
2.8.7	Back up alarm minimum (102 dBA)	x	
2.8.8	Cruise control with lock throttle	x	
2.9	Instruments and Controls		
2.9.1	Engine hour meter, dash mounted	X	
2.9.2	Crane hour meter, dash mounted	X	
2.9.3	Voltmeter	X	
2.9.4	Coolant temperature gauge	X	
2.9.5	Fuel level gauge	X	
2.9.6	Tachometer	X	
2.9.7	Speedometer/odometer in kilometers	X	
2.9.8	Transmission temperature gauge	x	
2.9.9	Low air warning signal and light	X	
2.10	Stake Body		
2.10.1	Heavy duty general purpose flat deck stake body minimum 2.6m x 6.7m (8.5ft x 22ft)	X	
2.10.2	Excess overhanging rear frame rails must be removed as part of crane installation.	X	
2.10.3	Steel under frame and cross members.	X	
2.10.4	Hardwood deck for heavy-duty use.		x
2.10.5	Steel channel perimeter rub rail must be built with channel legs facing inboard as a part of the deck and the stake pockets integral in the channel or the pockets can be outside of the bed rail with a channel rub rail welded to the pockets.	X	
2.10.6	Solid steel bull board 61cm (24") high, with steel corner posts welded to the stake body.		X
2.10.7	Grab handle on driver side bull board with steps below.	X	
2.10.8	Seven (7) load winches on slider track with 3", minimum 5400lbs straps with chain hook ends.	x	
2.10.9	Clearance and identification lights recessed into body platform. Flush mounted into stake body platform.	x	
2.10.10	Completely sealed, waterproof electrical system and wiring, protected against abrasion.	x	
2.10.11	Two watertight aluminum toolboxes (min: 48"x24"x24") with barn doors (up 5" from bottom) and pad lockable (one on each side)	x	
2.10.12	Drivers side toolbox: internal shelves (min: 48"x15"), down 8" from top of		x

	box, supported in middle to top of box.		
2.10.13	Passenger side toolbox: No shelves		x
2.10.14	Third watertight powder coated steel or aluminum tool box lockable (min: 24"x24"x24")		x
2.11	Hydraulic straight boom Crane		
2.11.1	Supply and install, in the space between cab and body, hydraulic articulated crane or hydraulic straight boom crane , complete with all necessary hydraulics and hardware. Min lift capabilities a. At 22.9m (75ft, 5in) reach: 426 kg (940 lbs) b. At 4.6m (15ft) reach: 13,000 kg (28,600 lbs)	x	
2.11.2	Boom telescoping section of the 4 section design and telescope hydraulically on nylon pads.		x
2.11.3	Total hydraulic outreach minimum 27.4m (90ft) sheave height	x	
2.11.4	Full lift capacity 360 degrees (not de-rated) front and sides	x	
2.11.5	Control levers for all crane functions.	x	
2.11.6	The crane shall be equipped with a boom mounted high pull single speed planetary type winch. The load line shall be of no less than 99m(325ft) of 9/16 inch rotation resistant 19.25 ton nominal breaking strength wire rope	x	
2.11.7	The crane shall have an overall height not more than 4.15 m. It shall not exceed 2.6m width in transport position.	x	
2.11.8	Proportional , multi-function wireless remote control system for all crane and winch functions	x	
2.11.9	Remote with two batteries and charger on truck.		x
2.11.10	Remote control system is to permit operator to operate all functions from a distance of 90m (300ft) from crane control box.		x
2.11.11	Load holding valves on all crane functions.	x	
2.11.12	Crane shall be equipped with a hydraulic capacity alert system to assist operator in preventing crane overload when making lifts on main boom. Capacity alert system shall be a hydraulically operated, maximum capacity sensing device designed to stop all of the normal crane functions that can cause overload when maximum capacity is exceeded on the main boom	X	
2.11.13	Stabilizers shall be of box type construction. Must have a minimum of 3.04m (10') horizontal span and .5m (20 inch) vertical movement. Conventional A-Frame Stabilizers for Straight Boom Cranes are also acceptable as long as the lifting capacity is no de-rated as per 2.11.4 - Full lift capacity 360 degrees (non de-rated) front and sides.		X
2.11.14	Minimum 370 degrees slewing system	X	
2.11.15	Hydraulic oil in boom must meet manufacturers specifications and be suitable for use in climate conditions of -40C to +45C.	x	
2.11.16	All load charts installed on crane to have a maximum capacity of 8 ton (16,000 lbs.) showing	X	
2.11.17	If required, fifth leg at front for full load ahead of truck	x	
2.11.18	Crane to be equipped with load scale	x	

ANNEX D

Mandatory Technical Evaluation Criteria

Bidders shall indicate opposite each specification under MANDATORY SPECIFICATIONS, in the right hand margin under DETAIL OFFERED, whether or not the equipment being offered meets / does not meet the requirements.

It will be to your advantage to furnish as much detail as possible to support your comments / claims of compliance for each specification. If technical literature, etc. is provided, please reference the page number and highlight the specification that supports your compliance. If there is no technical literature to support a specification, you should indicate so.

ITEM	MANDATORY SPECIFICATIONS	<u>DETAIL OFFERED</u>	
		Met	Not Met
1.0	General		
1.1	Operating Conditions		
1.1.1	Vehicle must be capable of satisfactory operation in ambient temperatures from 4-40C to +45C.		
1.2	Manuals		
1.2.1	Provide two (2) hard copies of operating manuals, one (1) hard copy of the shop service manual (including engine and driveline shop manuals and chassis) and one (1) hard copy of the service and parts manual accurately identifying all components of the boom equipment supplied to the consignee.		
1.3	Painting		
1.3.1	Truck cab must be painted manufacturer's yellow		
1.3.2	Frame and flatbed must be painted black.		
1.3.3	Crane must be painted crane manufacturers standard color.		
1.4	Delivery		
1.4.1	Lubricate and service unit prior to delivery with all lubricants associated products suitable for the climate conditions in which the vehicle will operate.		
1.4.2	Service center for maintenance of truck and crane must not be more than 150km from Peterborough Ontario, and have all parts readily available.		
1.5	Training		
1.5.1	Provision of training for 4 employees on boom truck supplied, including provision of certificates recognized by the Ministry of Training College and Universities.		
2.0	Detail Requirements		
2.1	Chassis		
2.1.1	A minimum GVWR of 60 000 pounds (27,215 kg)		
2.1.2	A minimum front axle 20 000 pounds (9072 kg) with standard suspension		
2.1.3	A minimum rear axle 40 000 pounds (18,143 kg) (2 x 20,000) tandem with standard suspension		
2.1.4	Wheel Base: A maximum of 630 cm (248 inches)		
2.1.5	Maximum turning radius 14m (46ft)		

2.1.6	Maximum frame section modules of 20in3 and minimum yield strength of 110,000PSI steel.		
2.1.7	Heavy duty front mounted tow hook(s) suitable for GVWR		
2.1.8	Anti-sail mud flaps mounted behind rear wheels		
2.1.9	Rear pintle hook with minimum 8 tons towing capacity and Reese style trailer hitch receiver minimum 5 ton capacity		
2.2	Engine		
2.2.1	Minimum: 6 cylinder 300 HP Diesel engine with on and off road capabilities		
2.2.2	Minimum: 1000 lb-ft torque		
2.2.3	Dry type element heavy duty air cleaner with service indicator		
2.2.4	Full flow oil filter		
2.2.5	Temperature controlled engine cooling fan		
2.2.6	Coolant/Antifreeze for minimum -40 degrees Celsius		
2.2.7	Engine Block heater, complete with connecting cord.		
2.2.8	Cold weather starting system		
2.2.9	Vertical exhaust system, stainless steel muffler		
2.2.10	Engine to be equipped with Jake style engine brake		
2.3	Transmission and Final Drive		
2.3.1	Minimum: 6 speed automatic transmission construction duty with PTO provisions.		
2.3.2	Top speed governed at 105 kph (65mph).		
2.3.3	Full locking differentials		
2.3.4	Inter-axle lock		
2.3.5	Rear axle ratio appropriate to GVWR load capacity and HP		
2.4	Brakes		
2.4.1	Brakes to be a dual air system in accordance with CMVSS 121 or most current standard		
2.4.2	Airbrake Anti-lock braking system		
2.4.3	Air dryer		
2.4.4	All lines, components and fittings to meet SAE & DOT standards		
2.4.5	Spring activated parking brake		
2.4.6	All air tanks to have cable drains accessible from truck perimeter.		
2.5	Fuel		
2.5.1	Minimum: Single tank 80 US gallons (302 liters) fuel tank capacity.		
2.5.2	Primary and secondary replacement type fuel filters.		
2.5.3	Fuel/Water separator		
2.6	Wheels and Tires		
2.6.1	Steel belt radial ply tires tubeless		
2.6.2	Tire size to be suitable for use and load (no low profile)		
2.6.3	Front to be highway tread		
2.6.4	Rear dual to be lug tread		
2.6.5	Steel hub pilot wheels		
2.7	Cab and Accessories		
2.7.1	Conventional Cab type		
2.7.2	Air ride Cab		
2.7.3	Tilt forward fiberglass hood and fenders		
2.7.4	Heated power adjustable mirrors – minimum 7" x 16" with convex on both sides, blindside.		
2.7.5	Entry/egress grab handles left and right side		
2.7.6	Windshield wipers, intermittent minimum two constant speeds		
2.7.7	Fully insulated cab to drop noise level down below 88 dBA.		
2.7.8	Driver and passenger air ride seats. Sufficient height in cab to provide 6		

	foot tall driver and passenger with clearance above head while sitting in seat adjusted to mid position.		
2.7.9	Right and left side sun visors.		
2.7.10	Air Horn		
2.7.11	Power windows and locks		
2.7.12	Fresh air ventilation and defroster.		
2.7.13	Dash mounted PTO switch.		
2.7.14	Indicator light for PTO.		
2.7.15	Cab interior lights.		
2.7.16	Air Conditioning.		
2.7.17	Multiple storage compartments. (e.g. doors and dash)		
2.7.18	Console storage with lid.		
2.7.19	Amber LED strobe light or lights, mounted with 360 degree visibility with Cab switch.		
2.7.20	Safety gear secured in cab – fire extinguisher, flares, and first aid kit.		
2.7.21	AM/FM radio		
2.7.22	Bluetooth hands free phone capabilities, with USB charging port and 110 AC outlet.		
2.8	Electrical System		
2.8.1	Full highway lighting as per highway regulations for Ontario		
2.8.2	High output alternator		
2.8.3	Heavy duty maintenance free batteries.		
2.8.4	Halogen headlights.		
2.8.5	Auxiliary power outlet (12 Volt DC)		
2.8.6	Round 7 way trailer socket RV type (flat terminals)		
2.8.7	Back up alarm minimum (102 dBa)		
2.8.8	Cruise control with lock throttle		
2.9	Instruments and Controls		
2.9.1	Engine hour meter, dash mounted		
2.9.2	Crane hour meter, dash mounted		
2.9.3	Voltmeter		
2.9.4	Coolant temperature gauge		
2.9.5	Fuel level gauge		
2.9.6	Tachometer		
2.9.7	Speedometer/odometer in kilometers		
2.9.8	Transmission temperature gauge		
2.9.9	Low air warning signal and light		
2.10	Stake Body		
2.10.1	Heavy duty general purpose flat deck stake body minimum 2.6m x 6.7m (8.5ft x 22ft)		
2.10.2	Excess overhanging rear frame rails must be removed as part of crane installation.		
2.10.3	Steel under frame and cross members.		
2.10.4	Hardwood deck for heavy-duty use.		
2.10.5	Steel channel perimeter rub rail must be built with channel legs facing inboard as a part of the deck and the stake pockets integral in the channel or the pockets can be outside of the bed rail with a channel rub rail welded to the pockets.		
2.10.6	Solid steel bull board 61cm (24") high, with steel corner posts welded to the stake body.		
2.10.7	Grab handle on driver side bull board with steps below.		
2.10.8	Seven (7) load winches on slider track with 3", minimum 5400lbs straps		

	with chain hook ends.		
2.10.9	Clearance and identification lights recessed into body platform. Flush mounted into stake body platform.		
2.10.10	Completely sealed, waterproof electrical system and wiring, protected against abrasion.		
2.10.11	Two watertight aluminum toolboxes (min: 48"x24"x24") with barn doors (up 5" from bottom) and pad lockable (one on each side)		
2.10.12	Drivers side toolbox: internal shelves (min: 48"x15"), down 8" from top of box, supported in middle to top of box.		
2.10.13	Passenger side toolbox: No shelves		
2.10.14	Third watertight powder coated steel or aluminum tool box lockable (min: 24"x24"x24")		
2.11	Hydraulic straight boom Crane		
2.11.1	Supply and install, in the space between cab and body, hydraulic articulated crane or hydraulic straight boom crane , complete with all necessary hydraulics and hardware. Min lift capabilities c. At 22.9m (75ft, 5in) reach: 426 kg (940 lbs) d. At 4.6m (15ft) reach: 13,000 kg (28,600 lbs)		
2.11.2	Boom telescoping section of the 4 section design and telescope hydraulically on nylon pads.		
2.11.3	Total hydraulic outreach minimum 27.4m (90ft) sheave height		
2.11.4	Full lift capacity 360 degrees (not de-rated) front and sides		
2.11.5	Control levers for all crane functions.		
2.11.6	The crane shall be equipped with a boom mounted high pull single speed planetary type winch. The load line shall be of no less than 99m(325ft) of 9/16 inch rotation resistant 19.25 ton nominal breaking strength wire rope		
2.11.7	The crane shall have an overall height not more than 4.15 m. It shall not exceed 2.6m width in transport position.		
2.11.8	Proportional , multi-function wireless remote control system for all crane and winch functions		
2.11.9	Remote with two batteries and charger on truck.		
2.11.10	Remote control system is to permit operator to operate all functions from a distance of 90m (300ft) from crane control box.		
2.11.11	Load holding valves on all crane functions.		
2.11.12	Crane shall be equipped with a hydraulic capacity alert system to assist operator in preventing crane overload when making lifts on main boom. Capacity alert system shall be a hydraulically operated, maximum capacity sensing device designed to stop all of the normal crane functions that can cause overload when maximum capacity is exceeded on the main boom		
2.11.13	Stabilizers shall be of box type construction. Must have a minimum of 3.04m (10') horizontal span and .5m (20 inch) vertical movement. Conventional A-Frame Stabilizers for Straight Boom Cranes are also acceptable as long as the lifting capacity is no de-rated as per 2.11.4 - Full lift capacity 360 degrees (non de-rated) front and sides.		
2.11.14	Minimum 370 degrees slewing system		
2.11.15	Hydraulic oil in boom must meet manufacturers specifications and be suitable for use in climate conditions of -40C to +45C.		
2.11.16	All load charts installed on crane to have a maximum capacity of 8 ton (16,000 lbs.) showing		

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5P300-180423/A
Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.
003
File No. - N° du dossier
KIN-8-50018

Buyer ID - Id de l'acheteur
KIN630
CCC No./N° CCC - FMS No./N° VME

2.11.17	If required, fifth leg at front for full load ahead of truck		
2.11.18	Crane to be equipped with load scale		