

VOLUME – IA

TENDER SPECIFICATION No. BHE/PW/PUR/SOLT-CRH/1141/OJ

Sl. No.	Description	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8
1	NAME OF CRANE MANUFACTURER	Fushun Excavator Corp Ltd	Sany	Hitachi	Hitachi	Zoomlion	Fushun Excavator Corp Ltd	Kobelco	American Crane
2	CRANE MODEL NO.	QUY 150A	SCC1500C	KH 700-2	KH 700	QUY 180	QUY 150 C	CKE 1800	9310A
3	Minimum Rated Capacity of crane in MT as per load chart (with basic boom at minimum operating Radius) without HLA	150 MT @ W/R - 5 m; BL - 18 m	155 MT @ W/R - 4.94 m; BL - 18 m	150 MT @ W/R - 5 m; BL - 18 m	150 MT @ W/R - 4.8 m; BL - 18 m	180 MT @ W/R - 5 m; BL - 20 m	150 MT @ W/R - 4.6 m; BL - 15.2 m	180 MT @ W/R - 3.75 m; BL - 12.2 m	204 MT @ W/R - 4.9 m; BL - 21.3 m
4	Boom & Jib Construction	Tubular Lattice	Tubular Lattice	Tubular Lattice	Tubular Lattice	Tubular Lattice	Tubular Lattice	Tubular Lattice	Tubular Lattice
5	Minimum Boom Length	81 Mtrs	81 mtrs.	81 mtrs.	81 mtrs.	80 Mtrs.	81.2 Mtrs.	82.3 m	79.2 m
6	Jib Type	Fix Type	Fix Type	Fix Type	Fix Type	Fix Type	Fix Type	Fix Type	Fix Type
7	Jib Angle	15°,30°	15°,30°	15°,30°	15°,30°	10°, 30°	15°,30°	10°, 30°	5°, 15°, 25°
8	Minimum Jib Length	31 Mtrs	31 Mtrs.	31 Mtrs.	31 Mtrs.	32 Mtrs.	31 Mtrs.	30.5 m	30.5 m
9	Minimum Boom + Fix Jib Length Combination	69 m (Main Boom) + 31 m (Jib Length)	69 m (Main Boom) + 31 m (Jib Length)	69 m (Main Boom) + 31 m (Jib Length)	69 m (Main Boom) + 31 m (Jib Length)	71 m (Main Boom) + 31 m (Jib Length)	69.2 m (Main Boom) + 31 m (Jib Length)	73.2 m (Main Boom) + 30.5 m (Jib Length)	79.2 m (Main Boom) + 30.5 m (Jib Length)
10	Crawler to Crawler outer dimension in mtrs	6.450 Mtrs	6.73 mtrs.	7.55 Mtrs.	6.45 Mtrs.	7.1 Mtrs.	6.73 Mtrs.	6.67 Mtrs.	6.3 Mtrs.
11	Heavy lift Attachment (HLA)	NO	NO	NO	NO	NO	NO	NO	NO
12	LIFTING CAPACITY OF HOOK BLOCKS IN MT								
12.a	1 no. of 150 MT or max. crane lifting capacity	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12.b	1 no. of 70-100 MT lifting capacity	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12.c	1 no. of 40-50 MT lifting capacity	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12.d	1 no. of 09-15 MT lifting capacity	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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12.e	Separate winch for independent operation of main hoist and jib/auxiliary hoist	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	Safety Devices								
13.a	Cut off devices when exceeding excessive load moment	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13.b	Main Hoist, Jib Hoist & Boom Hoist limit switch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13.c	Boom back stop	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13.d	Safety valve against pipe and hose rupture in case of hydraulic crane	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13.e	Anemometer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13.f	Load Moment indicator (LMI)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bidder to confirm following; (by writing Yes/No or (v) for model options they are offering to BHEL.									
14	Crane model offered.								
15	Offered crane model is in possession of the bidder and is available for immediate deployment (if the work is awarded to the bidder)								
16	Manufacturing year for crane model offered will not be more than 10 years as on the latest date of submission of offer. (Documentary evidence shall be furnished at site at the time of deployment)								
Note :	1. The models of crane found suitable by BHEL for the required technical requirement is as indicated herein above. Bidders are required to tick (v) or answer "YES" for sl. Nos. 14, 15 & 16 against all the models they prefer to offer to BHEL against this tender specification. Bidders to note that their respective models shall be considered by BHEL only if all the criteria (i.e. against Sl. No. 14, 15 & 16) are either marked tick "(v)" or answered "YES".								
	2. In case the bidder prefers to offer any other equivalent crane model(s), the details are to be indicated/filled up in the "Annexure to Volume IA" attached.								

ANNEXURE TO VOLUME- IA

TENDER SPECIFICATION No. BHE/PW/PUR/SOLT-CRH/1141/OJ

Sl. No.	Description	Minimum Requirement	Model A	Model B	Model C
1	NAME OF CRANE MANUFACTURER				
2	CRANE MODEL NO.				
3	Minimum Rated Capacity of crane in MT as per load chart (with basic boom at minimum operating Radius) without HLA	150 MT minimum rated capacity as per Load Chart. (with basic boom at minimum operating Radius) without HLA			
4	Boom & Jib Construction	Tubular Lattice			
5	Minimum Boom Length	79 Mtrs			
6	Jib Type	Fix			
7	Jib Angle	Minimum 02 position			
8	Minimum Jib Length	30 Mtrs.			
9	Minimum Boom + Fix Jib Length Combination	69 m (Main Boom) + 30 m (Jib Length)			
10	Crawler to Crawler outer dimension in mtrs	08 Mtrs. (Maximum)			
11	Heavy lift Attachment (HLA)	No			
12	LIFTING CAPACITY OF HOOK BLOCKS IN MT				
12.a	1 no. of 150 MT or max. crane lifting capacity	Yes			
12.b	1 no. of 70-100 MT lifting capacity	Yes			
12.c	1 no. of 40-50 MT lifting capacity	Yes			
12.d	1 no. of 09-15 MT lifting capacity	Yes			
12.e	Separate winch for independent operation of main hoist and jib/auxiliary hoist	Yes			
13	Safety Devices				
13.a	Cut off devices when exceeding excessive load moment	Yes			
13.b	Main Hoist, Jib Hoist & Boom Hoist limit switch	Yes			
13.c	Boom back stop	Yes			
13.d	Safety valve against pipe and hose rupture in case of hydraulic crane	Yes			

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13.e	Anemometer	Yes			
13.f	Load Moment indicator (LMI)	Yes			
14	Option for Crane model offered. (Yes /No)	Yes			
15	Offered crane model is in possession of the bidder and is available for immediate deployment (if work is awarded to the bidder). (Yes / No)	Yes			
16	Manufacturing year for crane model offered will not be more than 10 years as on the latest date of submission of offer. (Documentary evidence shall be furnished at site at the time of deployment) (Yes /No)	Yes			
Note	<p>1. Bidders are required to fill up the details against sl. no. 1 to 10 and to indicate "Yes" or "No" against sl. no. 11 to 16 of all the relevant models offered.</p> <p>2. Bidders to furnish documentary evidence for all the details filled up. Bidders to note that their respective models shall be considered by BHEL only if all the minimum requirements are fulfilled.</p> <p>3. Use additional sheet of this annexure if required.</p>				