

Appendix G3

Quality and Technical evaluation - Reachstackers 45 ton

The Quality and Technical evaluation of each Technical Proposal will be made according to the following detailed list and values:

Total evaluation score - Reachstacker 45 TON				
1 Operational checking				40%
1.1 Lift capacities				40%
+	1.1.1	Capacity under the spreader - 2 nd row	15%	
+	1.1.2	Capacity under the spreader - 3 rd row	10%	
+	1.1.3	Stabilizers down - Capacity under the spreader - 2 nd row	15%	
+	1.1.4	Stabilizers down - Capacity under the spreader - 3 rd row	10%	
+	1.1.5	Capacity under the spreader - 2 nd rail tracks	15%	
+	1.1.6	Stabilizers down - Capacity under the spreader - 2 nd rail tracks	10%	
+	1.1.7	4 Lifting eyes on the corner of the spreader - Capacity of each lifting eye	10%	
+	1.1.8	Traveling with container when the container axis parallel to the direction of travel - capacity	15%	
1.2 Performance				35%
-	1.2.1	Turning radius inner (R)	5%	
-	1.2.2	Turning radius out (R1)	5%	
+	1.2.3	Driver's seat height	5%	
+	1.2.4	Top travel speed with load	10%	
+	1.2.5	Top travel speed without load	10%	
+	1.2.6	Lift speed with load	10%	
+	1.2.7	Lift speed without load	10%	
+	1.2.8	Lowering speed without load	5%	
+	1.2.9	Spreader rotation degrees	5%	
-	1.2.10	Min. aisle 20' stacking - A - see annex B1	10%	
-	1.2.11	Turning radius 40' container inner (R2) - see annex B1	5%	
-	1.2.12	Min. aisle 40' stacking - A - see annex B1	5%	
+	1.2.13	Max Draw pull	10%	
-	1.2.14	Container weighting system - System accuracy	5%	
1.3 Driver cab				25%
-	1.3.1	Sound level with closed windows	40%	
	1.3.2	View angles to rear and to front from the cabin - the cabin at rear position - see annex B4	20%	
-	1.3.2.1	Rear - y1	30%	
-	1.3.2.2	Front - y2	70%	
	1.3.3	View angles to rear and to front from the cabin - the cabin at front position - see annex B5	20%	
-	1.3.3.1	Rear - y1	30%	
-	1.3.3.2	Front - y2	70%	
+	1.3.4	Compliance with ISR's technical specification & general impression	20%	

notes:

(-) The lowest parameter will receive 100%, and the other parameters will be graded respectively.

(+) The highest parameter will receive 100%, and the other parameters will be graded respectively.

	2	Technical checking		40%
	2.1	Structure design		15%
	2.1.1	Reachstacker general weight	10%	
+	2.1.1.1	Weight	10%	
-	2.1.1.2	Weight on drive axle without load	20%	
-	2.1.1.3	Ratio weight on drive axle with 45 ton – 1 st row	20%	
-	2.1.1.4	Ratio weight on drive axle with 34 ton – 2 nd row	20%	
-	2.1.1.5	Ratio weight on drive axle with 17 ton – 3 rd row	30%	
-	2.1.2	Reachstacker length	5%	
+	2.1.3	Wheelbase	5%	
+	2.1.4	Over tires width - front	5%	
+	2.1.5	Over tires width - rear	5%	
+	2.1.6	Forward Static Stability factor 1 st row – 45 ton	10%	
+	2.1.7	Forward Static Stability factor 2 nd row – 34 ton	10%	
+	2.1.8	Forward Static Stability factor 3 rd row – 17 ton	10%	
+	2.1.9	Air inlet heights	5%	
+	2.1.10	Coolant quantity (liter)	10%	
+	2.1.11	Fuel tank capacity	10%	
+	2.1.12	Compliance with ISR's technical specification & general impression.	15%	
	2.2	Driver cab		20%
+	2.2.1	Sliding distance (m) - Annex B6 - L4	30%	
+	2.2.2	Maximum forward - annex B6 - L5	20%	
+	2.2.3	Air-condition capacity (Btu/h)	20%	
+	2.2.4	Compliance with ISR's technical specification & general impression.	30%	
	2.3	Engine		10%
+	2.3.1	Manufacturer	10%	
+	2.3.2	Volume	20%	
+	2.3.3	Power output net	30%	
+	2.3.4	Torque output	20%	
+	2.3.5	Compliance with ISR's technical specification & general impression.	20%	
	2.4	Travel system		15%
+	2.4.1	Transmission manufacturer	10%	
+	2.4.2	Input power [kw]	15%	
+	2.4.3	Weight Without Oil	5%	
+	2.4.4	Steering axle manufacturer	10%	
+	2.4.5	Steering axle - Max. load capacity (static)	10%	
+	2.4.6	Steering axle ratio (static) = max. load capacity/actual load	5%	
+	2.4.7	Front axle manufacturer	5%	
+	2.4.8	Front axle - Max. load capacity (static)	10%	
+	2.4.9	Front axle ratio (static) = max. load capacity/actual load	5%	
+	2.4.10	Tires – max loading capacity	5%	
+	2.4.10	Compliance with ISR's technical specification & general impression.	20%	
	2.5	Electrical system		10%
+	2.5.1	Alternator manufacturer	10%	
+	2.5.2	Alternator rating [Amp.]	25%	
+	2.5.3	Maintenance free battery	10%	
+	2.5.4	Battery capacity	15%	
+	2.5.5	CAN-BUS system	10%	
+	2.5.6	Compliance with ISR's technical specification & general impression.	30%	

	2.6	Spreader			10%
+	2.6.1	Spreader manufacturer			10%
+	2.6.2	Spreader Weight			20%
+	2.6.3	Side shift – max. movement			10%
+	2.6.4	Max. free tilting angel			20%
+	2.6.5	Spreader damping system - no. of cylinders			10%
+	2.6.6	Compliance with ISR's technical specification & general impression.			30%
	2.7	Boom			10%
+	2.7.1	Inner boom - material [MPa]			25%
+	2.7.2	Outer boom - material [MPa]			25%
+	2.7.3	Boom telescopic cylinder – easy dismantling			20%
+	2.7.4	Compliance with ISR's technical specification & general impression.			30%
	2.8	Maintenance			10%
+	2.8.1	Oil replacement frequency			30%
+	2.8.1.1	Engine oil	33%		
+	2.8.1.2	Transmission oil	33%		
+	2.8.1.3	Hydraulic oil	34%		
+	2.8.2	Filters replacement frequency			30%
+	2.8.2.1	Engine oil filter	33%		
+	2.8.2.2	Transmission oil filter	33%		
+	2.8.2.3	Hydraulic oil filter	34%		
+	2.8.3	Central Automatic Lubrication systems - manufacturer			10%
+	2.8.4	Compliance with ISR's technical specification & general impression.			30%
+	3	ISR's previous experience in operating Reachstackers supplied by Bidder. Scoring under this section shall be as follows: 1. <u>Reachstackers from a manufacturer with experience</u> will be scored between 0% – 100%. The score will be given by operators from Israel Railways. 1.1. Operational evaluation will be conducted by at least 3 operators. 2. <u>Reachstackers from a manufacturer without experience</u> shall be scored between 0% – 100%. The score shall be given by local references in Israel and/or Europe submitted by the bidders in the tender documents – List of References, Appendix M3 . Accordingly, reference forms shall be sent for completion regarding experience and operational opinion – Appendix K3 . A summary report will be presented to the technical committee forum for scoring and final approval. 2.1. At least 3 references/operators must provide operational opinions. 2.2. The <u>summary</u> report shall be an average of the reports submitted. 2.3. A report that is not filled out or is submitted improperly will receive a score of 0% or any other score at the discretion of the technical committee.			15%

	4	Number of Reachstackers of at least 45 ton lifting capacity manufactured & supplied by the manufacturer worldwide from January 1, 2021 up to the final date for submission of proposals (about the last 5 1/2 years (2021–2026)). Note - Scoring shall be awarded according to the following: • 1–100 units manufactured and/or supplied → 2 points • 101–200 units manufactured and/or supplied → 3 points • 201–300 units manufactured and/or supplied → 5 points	5%
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Service Evaluation - Previous experience with the service station in Israel

+	1	Israel Railways' previous experience with the Bidder's service facilities in <u>Israel</u>. The Scoring under this section shall be as follows: 1. <u>Service companies with experience</u> shall be scored between 0% to 100%. The score shall be given by Israel Railways terminal employees in a technical committee forum which will provide and approve a final score. 1.1. A technical opinion regarding the service companies and the actual service shall be given by at least three (3) managers who work directly with the service companies. 2. <u>Service companies without prior experience</u> shall be scored between 0% – 100%. The score will be given by <u>references</u> submitted by <u>Bidders</u> in the tender documents – List of References, Appendix M1-M3 and M3. Accordingly, technical forms shall be sent to references for completion regarding service experience and/or actual service provision – Appendix L. A summary report will be presented to the technical committee forum for final scoring and approval. 2.1. Opinions must be given by at least 3 references. 2.2. The <u>summary</u> report shall be an average of the reports submitted. 2.3. A report that is not filled out or is submitted improperly shall receive a score of 0% or any other score at the discretion of the technical committee.	100%
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notes:

(-) The lowest parameter will receive 100%, and the other parameters will be graded respectively.

(+) The highest parameter will receive 100%, and the other parameters will be graded respectively.

For the avoidance of doubt, it is hereby clarified that the minimum passing score for both the Quality and Technical Evaluation and the Service Evaluation shall be seventy-five percent (75%) out of a maximum score of one hundred percent (100%).