

CORRIGENDUM-2

CORRIGENDUM-2 to tender number CON/AREA-1/TECH/RST-35/2021 for Design, manufacture, supply and commissioning of 35 nos. of loaded Reach Stackers (RSTs) at specified terminals of CONCOR is issued for :

- 1.0 Issue Amendment No.-1 to the Tender ,
- 2.0 Issued Clarification No. 1 to 111 ,in response to Clarifications sought by the intended bidders.

ALL THE TERMS AND CONDITIONS OF THE BID DOCUMENT SHALL REMAIN UNCHANGED

Executive Director/Area-1

Amendment 1 to the clause of tender number CON/AREA-1/TECH/RST-35/2021 under Corrigendum-2

Amendment No.	Clause and Section of Tender	Amendment
1.	Clause 3.2. (vii) of Section- II,	To add clouse 3.2 (ix) MSEs having Udyam Registration Certificate issued by Ministry of MSME. Note: MSE's Broad classification under NIC (National Industrial Classification) covering the tendered item in that category would be acceptable.

Clarification No. 1 to 111 to the tender number CON/AREA-1/TECH/RST-35/2021 under Corrigendum-2

Clarification Sr. no	CLAUSE SECTION &	Requirement as per tender	Clarification sought by intended bidders	CONCOR's reply
1	Section – II Clause 3.0	3.0 EARNEST MONEY DEPOSIT Certificate (Bid security Declaration) 3.1 Bidders (including MSEs) shall be required to sign and submit the 'Bid Security Declaration' as per below. -----	EMD Certificate and amount: We could not find more information online portal Tender Wizard on the details of EMD amount and certificate.	In the present tender there is no requirement of Earnest money, only bid security declaration as per format which is mandatory needs to be submitted. Provision of tender clause shall prevail.
2	Schedule-II Item no. 5	SLEW RING : ROTHE ERDE, ELME (SWEDEN), SKF (GERMANY – SWEDEN), FAG (GERMANY)	Inclusion of Xuzhou Fenghe or Leonessa Brevini slew rings for the spreader: The spreader used is Bromma as per the brands Specified in the tender. The slewing ring used by Bromma is either Xuzhou Fenghe or Leonessa Brevini.	Provision of tender clause shall prevail.
3	Schedule II – Item no. 10	HYDRAULIC VALVE: REXROTH / DENISON / DANFOSS /PARKER/BROMMA/EATON	Inclusion of Hydro controls EX 72 valve (brochure enclosed): Hydrocontrol (part of the Interpump Group) is a leading global manufacturer of hydraulic valves with a	Provision of tender clause shall prevail.

			factory in India. Thes EX72 valve has been successfully used on many large cranes, fork lifts and stackers				
4	Schedule II – Item no. 11	HYDRAULIC FILTERS: PARKER / DONALDSON / ARGO HYTOS / REXROTH/HYDAC & HYDRAFORCE	Inclusion of Filtrec and Casappa Ikron: Filtrec and Casappa Ikron are leading Italian manufacturers with a presence in India	Provision of tender clause shall prevail.			
5	Schedule II Item no. 17	AIR FILTERS; PARKER / DONALDSON / COOPER/ARGO HYTOS	Inclusion of Fleet guard air filters: Fleetguard is a major supplier of filters with a big Presence in India. Fleetguard filters are provided with Cummins engines.	Provision of tender clause shall prevail.			
6	Schedule II- Item no. 19	ALTERNATORS: Bosch/Valeo/Delphi/AC DELCO REMI / LEECE NEVILLE or equivalent make Conforming to ISO/DIN Standards	Alternators: Makes of alternators are in the scope of supply of the Engine supplier who use only reputed and proven brands. Our engines are from Volvo or Cummins – both engines are imported.	Provision of clause shall prevail.			
7		<table border="1"><tr><td>8</td><td>Date and time opening of Bid</td><td>03.09.2021 at 11:00 Hrs</td></tr></table>	8	Date and time opening of Bid	03.09.2021 at 11:00 Hrs	We are in process of preparing bid as per tender request to grant extension for tender opening till 24/9/2021.	Corrigendum-1 issued for extension of bid opening date to 17.09.2021
8	Date and time opening of Bid	03.09.2021 at 11:00 Hrs					

8	Schedule—III SL-8.0 Clause Ref: Section IV – 6.1	<table><tr><td>8</td><td>6.1</td><td>Indicate make of engine. Also indicate details of turbo charger having proven design in Indian condition</td><td>Submit details including make of engine and turbo charger</td></tr></table> 6.1 Engine should be of reputed make such as VOLVO or Cummins, or Caterpillar etc. It should be provided with electronic fuel injection and control system. The turbo charger used in the engine should be proven design in the Indian Operating conditions mentioned in clause 1.1 above.			8	6.1	Indicate make of engine. Also indicate details of turbo charger having proven design in Indian condition	Submit details including make of engine and turbo charger	Turbo charger: Holcet or Borg Warner equivalent . This is decided by Cummins / Volvo	Provision of clause shall prevail.
8	6.1	Indicate make of engine. Also indicate details of turbo charger having proven design in Indian condition	Submit details including make of engine and turbo charger							
9	Schedule—II SL-1.0 Clause Ref: Section IV – 6.0	<table><tr><td>1</td><td>ENGINE</td><td>VOLVO /CATERPILLAR/CUMMINS</td></tr></table> 6.0 Engine: 6.1 Engine should be of reputed make such as VOLVO Cummins, or Caterpillar etc. It should be provided with electronic fuel injection and control system. The turbo charger used in the engine should be proven design in the Indian Operating conditions mentioned in clause 1.1 above 6.2 It should be provided with centrifugal cyclonic or suitable filter.	1	ENGINE	VOLVO /CATERPILLAR/CUMMINS		Please also include SCANIA DC13 076A. 257 kW (350 hp) EU Stage IIIA, China Phase III, India Bharat Stage III and Brazil MAR-I	Provision of clause shall prevail.		
1	ENGINE	VOLVO /CATERPILLAR/CUMMINS								

		<p>6.3 Radiator should be provided to cater for extreme ambient temperatures upto 50 Deg Celsius.</p> <p>6.4 The displacement of engine should not be less than 10 lit design to meet the tender conditions and power not less than 245 KW rating should be decided as per ISO 1585.</p> <p>6.5 Engine should have provision of expansion tank.</p> <p>6.6 Engine should have minimum torque of 1500 Nm at lower RPM.</p> <p>6.7. Lubricating oil change interval should be minimum 500 hours or higher.</p> <p>6.8 Engine should have provision of important and standard safety features i.e. indication/warning in the operator's cabin and shutdown in case of</p> <ul style="list-style-type: none"> • low lubricating oil level • low water level • low lubricating oil pressure • Idling of engine in case of high cooling water temperature • Engine starting only when the gear is in neutral position. <p>6.9 Engine Fuel Tank capacity at least 500 litres with the level indicator.</p> <p>6.10 For Diesel Engine, supplier shall submit component manufacturing standard quality certificate for the Diesel Engine. Engine used for the machines should conform to the prevailing pollution control norms in Union of India.</p> <p>6.11 Engine should have function of adjustable automatic shut down in case the machine is not being used for 30 minutes.</p>		
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10	Section IV – Clause Ref: 10.11	10.11 LED light should be used for indicating Twist lock position in the cab as well as on the spreader.	The spreader rotates so the lights are located at the end of the outer boom and not on the spreader.	Provision of clause shall prevail.
11	Section IV – Clause Ref: 15.1V	<p>15.0 Safety Features:</p> <p>15.1 The following safety features should be provided.</p> <ul style="list-style-type: none"> (i) Anti-tipping device with automatic hydraulic cut off system. The system provided should be explained in the offer. (ii) All hydraulic cylinders to be fitted with a suitable lock valve to prevent load slipping due to hydraulic failure or hose breakage. (iii) Hydraulic circuits fitted with over pressure by-pass valve. (iv) Brake system provided with fail-safe engagement in case of pressure drop. (v) Protection for unlocking of circuit locks during lifting function. Further, twist lock should be operated only if spreader landed properly on the container. Twist lock control monitor at all time. (vi) Lifting only possible if all the locks are either totally latched or unlatched. (vii) Reverse horn with blinking light operated automatically while reversing the reach stackers. (viii) Load Management System and Overload protection. The details of alternative arrangement should be furnished. (ix) Container should not touch with boom while handling. (x) Prevent collision of Boom and spreader. (xi) Gearbox anti-reverse protection. (xii) Protective PVC or other suitable material sleeves over 	Please provide more detail. This means separate camera or controller	Provision of tender clause shall prevail.

		<p>the hoses at critical locations having possibility of rubbing or other damages.</p> <p>(xiii) 02 nos. fire extinguisher to be kept in cabin as part of the standard equipments in RSTs.</p>		
12	Section IV – Clause Ref: 18	<p>18.0 Acceptance Test - Testing of the reach stacker should be in accordance of following latest standards:</p> <p>18.1 Reach stacker must comply with the ISO 13562 Part-I and II (latest) or EN 1459:1998 standard with regard to stability test. Computer simulation test to prove side stability would also be accepted.</p> <p>18.2 Load testing -Lifting capacity meeting load chart (as specified in Para 1.1 of Schedule-1). Manufacturer can carry out end-on lifting test on 20' containers as mentioned in clause-1.4 of Schedule-1.</p> <p>18.3 Overload Test – Capability to lift a minimum of 25% over the specified maximum load of the Reach stacker (i.e. 56.25 Tonnes) at manufacturer’s premises under static condition. The load test is to be carried out as per ISO 10525 or equivalent international standard.</p> <p>The overload under dynamic conditions would be 10% of the specified maximum load (49.5 T) of the reach stackers.</p> <p>18.4 Lifting and Lowering Speed – Loaded / unloaded, as specified in Para 1.2 of Schedule-1. Lifting/Lowering Speed is to be measured by moving loaded container/empty spreader from ground to 4 high positions and vice versa.</p> <p>18.5 Travel speed – Loaded/empty conformance as</p>	<p>Load testing can be 100%. The 24 hour endurance test specified will take 3 man days plus regular tests for another 4 to 5 days. For the structures 3 days. That's around 2 weeks. Please clarify the testing required for one of the machine in the lot or for all the machines.</p>	Provision of clause shall prevail.

		<p>specified in Para 1.2.5 & 1.2.6 of Schedule-1.</p> <p>Cycle time: The cycle time of less than or equal to 85 seconds will be permissible as indicate in SN 1.6 of schedule-1-----</p>					
13	Section IV – Clause Ref: 12-6A	<p>12.0 Hydraulics system – The machine shall be equipped with the reliable hydraulic system with suitable hydraulic pumps for control, derricking, telescoping, spreader and steering functions. The hydraulic system should be designed to ensure smooth and consistent actuators movement, high operational speeds with low oil hydraulic pressure and low oil temperature. The machine hydraulics should be laid as per ISO:4401/4400 or DIN 24346/24340 or CETOP-3 or equivalent standard. The system should have feature of load sensing and overload protection. The hydraulic system should be fitted with glycerin filled pressure gauge or latest systems of pressure transducers. The make of various hydraulic system components should be as indicated in Schedule-II. The other salient features of hydraulic system would be as under:-</p> <table><tr><td>6</td><td>Hydraulic piston rod</td><td><p>a) Made of high-grade single piece forging alloy steel such as C-50 or equivalent EN grade.</p><p>b) Heat-treated to have surface hardness of 58 +/- 4 HRC.</p><p>c) Surface finish of the piston – 0.1 – 0.2 micron.</p><p>d) Ovality and cylinderisity within</p></td></tr></table>	6	Hydraulic piston rod	<p>a) Made of high-grade single piece forging alloy steel such as C-50 or equivalent EN grade.</p> <p>b) Heat-treated to have surface hardness of 58 +/- 4 HRC.</p> <p>c) Surface finish of the piston – 0.1 – 0.2 micron.</p> <p>d) Ovality and cylinderisity within</p>	<p>Piston rod is a hollow rod, cold drawn seamless tube. This will be made of Din 2391 ST 52 ST52 pipe - Properties are that of a Chemical Composition of P max 0.025, C _0.22, Mn _1.6, Si _0.55 and S max 0.025. DIN 2391 ST52 pipes have a Tensile Strength of 600 Mpa Min. The Yield Strength of DIN 2391 ST52 pipes is 520 Mpa Min. DIN 2391 ST52 pipes have an Elongation of 14% min.</p>	<p>Provision of clause shall prevail</p>
6	Hydraulic piston rod	<p>a) Made of high-grade single piece forging alloy steel such as C-50 or equivalent EN grade.</p> <p>b) Heat-treated to have surface hardness of 58 +/- 4 HRC.</p> <p>c) Surface finish of the piston – 0.1 – 0.2 micron.</p> <p>d) Ovality and cylinderisity within</p>					

				40 micron.			
14	Section IV Clause Ref: 12-6B	6	Hydraulic piston rod	a) Made of high-grade single piece forging alloy steel such as C-50 or equivalent EN grade. b) Heat-treated to have surface hardness of 58 +/- 4 HRC. c) Surface finish of the piston – 0.1 – 0.2 micron. d) Ovality and cylindericity within 40 micron.		This application does not call for induction hardening of the piston rod. These tubes are imported.	Provision of clause shall prevail
15	Section-I clause-10	Any clarification on bid documents can be sought in writing and should reach this office 7 days before the pre bid meeting by prospective bidders as per clause 11.3 of Section-II.				Please allow to submit any clarification on bid documents within 3 days before the pre bid meeting.	Prospective bidders have been provided sufficient opportunity to submit their queries in writing even on the day of pre-bid meeting.
16	Section-I clause-1(7)	Date and time of Submission of Bid : 02.09.2021 at 17:00 Hrs				Since the nature of the bid needs time to prepare and arrange lots of documentation, so we request to extend the due date to 04.10.2021.	Corrigendum-1 issued for extension of bid opening date to 17.09.2021
17	Section-II clause-2.1	2.1 The bidder is a manufacturer or an authorized dealer of a manufacturer (as per Annexure 15) having experience of:				Please add , "SEZ (Special Economic Zone) / FTWZ (Free Trade Ware Housing Zone)" /PFT	Provision of clause shall prevail.

		a) Having successfully supplied / executed at least one single purchase order of Government departments/CPSEs/SPSEs/Public listed companies/ICD/DCT/MMLP /Ports/CFS/ CTOs ----- ----- for the same item/product in the same tender.	(Private Freight Terminal)"	
18	Section-II clause-2.1	2.1 The bidder is a manufacturer or an authorized dealer of a manufacturer (as per Annexure 15) having experience of: a) Having successfully supplied / executed at least one single purchase order of Government departments/CPSEs/SPSEs/Public listed companies/ICD/DCT/MMLP /Ports/CFS/ CTOs ----- ----- for the same item/product in the same tender.	In the previous tender of CONCOR, we have acted as an Agent on behalf of our subsidiary company to supply 25 units of Reachstackers to Container Corporation Of India. Also we have undertaken all the logistics, commissioning & warranty obligations for these 25 units of reachstackers supplied & working in CONCOR's different ICDs. We request to accept our large scale experience of the previous tender & consider us as eligible for this tender. The requisite documents will be provided.	Provision of clause shall prevail.
19	Section-II clause-2.1	2.1 The bidder is a manufacturer or an authorized dealer of a manufacturer (as per Annexure 15) having experience of: a) Having successfully supplied / executed at least one single purchase order of Government departments/CPSEs/SPSEs/Public listed companies/ICD/DCT/MMLP /Ports/CFS/ CTOs ----- ----- for the same item/product in the same tender.	Since most of the prominent CFSs in India are owned by private companies, so we would request to consider the Work experience certificate issued by CFS owners.	The said clause is clear and the same permits experience of supply executed for Government departments/CPSEs/SPSEs/Public listed companies/ICD/DCT/MMLP /Ports/CFS/ CTOs. Only work experience certificate issued by Private Individual shall not be considered. Provision of clause shall

				prevail.
20	Section-II clause-2.1	<p>2.1 b) The Tenderer must have received total contractual payments/ turnover/revenue (income) from operations of Rs.1333 Lakhs in the previous three financial Years (i.e.FY 2018-19, FY2019-20 & FY2020-21) and the current Financial Year last day of month previous to the one in which tender is invited.</p> <p>----- be duly certified by the Chartered Accountant.</p>	<p>Please delete," and the current Financial Year last day of month previous to the one in which tender is invited."</p> <p>There are only 4 months passed in this current financial year.</p>	Provision of clause shall prevail.
21	Section-II clause-2.4, 24.0	<p>24.0 Public Procurement (Preference to Make In India):-</p> <p>Definitions:</p> <p>Local Content:- Local content means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.</p> <p>Class-I Local Supplier:- Class-I Local supplier' means a supplier or service provider, whose goods, services or works offered for procurement has local content equal to or more than 50%.</p> <p>Class-II Local Supplier:- Class-II Local Supplier means a supplier or service provider whose goods, services or works offered for procurement has local content more than 20% but less than 50%.</p> <p>Non Local Supplier:- Non Local Supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%.</p> <p>L-1:- L1 means the lowest tender or lowest bid or the lowest</p>	<p>The major components (ex. Engine , Transmission, Drive Axle, Spreader , Hydraulic Pumps etc.) of the reachstackers are made by European countries & contributes substantial cost of the Reachstacker. These component OEM have the subsidiary company / local agents /local dealersbased in India. In case the bidder is buying the major components through Indian subsidiaries/local agents/local dealers of the component manufacturer in Indian currency, then the cost of the components should be considered as local content.</p>	Provision of clause shall prevail.

		<p>quotation received in a tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.</p> <p>Margin of Purchase Preference:- Margin of purchase preference means the maximum extent to which the price quoted by a Class-I local supplier may be above the L1 for the purpose of purchase preference. The margin of purchase preference shall be 20%.</p> <p>Nodal Ministry:- Nodal Ministry means the Ministry or Department identified pursuant to this order in respect of a particular item of goods or services or works.</p>		
22	Section-II clause-10.3	<p>10.3 The bidder should quote the basic prices for destination and GST/CGST/UTGST/IGST (whichever is applicable) on the final finished Design, Manufacture, Supply, and Commissioning of 35 nos. of Loaded Reach Stackers (RSTs) at specified terminals of CONCOR as per online price format in the Annexure-3. Payment of GST will be made on submission of documentary proof that the amount has been deposited with the concerned authorities.</p>	<p>Kindly clarify whether CONCOR will submit Declaration Form for not imposing TCS rate as per section 206CCA of the Income Tax Act?</p> <p>In case the declaration will not be provided by CONCOR then applicable TCS will be charged as per the Income Tax act. There should be provision in the price bid to accomodate TCS.</p>	<p>Provision of clause shall prevail.</p>
23	Section-II clause-10.6	<p>10.6 Insurance - The purchaser will not pay separately for transit, erection & commissioning insurance and the supplier will be responsible till the entire 35 nos Loaded RST machines contracted for, arrive and get commissioned in good condition at destination i.e. Consignee. Bidder shall be responsible for all insurance charges including transit insurance etc till the Design, Manufacture, Supply and Commissioning of 35 nos. of Loaded Reach Stackers (RSTs) at specified terminals of CONCOR are delivered and commissioned at the nominated destinations in the</p>	<p>Kindly clarify whether in the insurance policy , CONCOR has to be nominated as joint beneficiary with the bidder?</p>	<p>Bidder shall be responsible for insurance of the goods and services.</p> <p>Provision of clause shall prevail.</p>

		acceptable condition.		
24	Section-VI Annexure-2	<p>ANNEXURE - 2 Bid security Declaration / EMD CERTIFICATE (Please refer Clause-3.1& 3.3 of Section-II, General Instructions to Bidders)</p> <p>Bidders shall be required to sign and submit the 'Bid Security Declaration' as per below.</p> <p>"I/We hereby understand and accept that I/We shall be debarred for a period of 12 (Twelve) months, from the date of debarment for all tenders viz. Procurement of Goods, Consultancy, Works, non-consulting Services etc. issued by CONCOR published during this period including participating in re-tender for that work</p>	<p>Instead of Earnest Money Deposit, CONCOR is asking for a certificate. The scale of the tender is big enough to ask the bidders to submit the Earnest Money Deposit of certain amount to ensure serious participation. In earlier tender of CONCOR, EMD has been asked & submitted by several vendors. Kindly clarify the EMD has to be submitted or not. In case EMD is required, then please specify the amount.</p>	<p>In the present tender there is no requirement of Earnest money, only the bid security declaration as per format, which is mandatory, needs to be submitted. This is as per Govt of India guidelines.</p> <p>Provision of tender clause shall prevail.</p>
25	Section-II clause-23.1	<p>23.1 Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry & Internal Trade (DPIIT).</p>	<p>Govt, of India has issued the notification on 23rd July 2020 regarding clause no. 23. On 27th October 2020, we have applied for the registration at Department for Promotion of Industry & Internal Trade (DPIIT). The application is under process & it is neither approved nor rejected till date. Therefore we request CONCOR to allow the suppliers whose application is still under scrutiny at DPIIT.</p>	<p>Provision of clause shall prevail</p>
26	Section-II clause-24.1(b)	<p>24.1.(b) Only Class-I local supplier and Class-II local supplier, as defined above, shall be eligible to bid in the tender.</p> <p>Bidders having a local content of less than 20% shall be</p>	<p>Please kindly clarify this.</p>	<p>Provision of clause shall prevail.</p>

		summarily rejected		
27	Section-IV clause-2.1.1	2.1.1. The fabrication of reach stacker frame and other associated steel structure i.e. Chassis, boom etc should be carried out as per latest DIN/ISO/CE/AWS standards.	Request to kindly also accept GB/EN standards, as we have already supplied previous 25 Nos. machines through our subsidiary company with GB/EN standards.	Equivalent standards are defined in the technical specifications. Provision of clause shall prevail
28	Section-IV clause-2.1.1	2.1.1. The fabrication of reach stacker frame and other associated steel structure i.e. Chassis, boom etc should be carried out as per latest DIN/ISO/CE/AWS standards. The brief details of guiding standards are given below:	-	-
29	Section-IV clause-2.1.1.1	1 General Fabrication DIN 18800/DIN EN1993	The DIN 18800 was replaced by the EN 1090. So Sany will follow EN1090	Provision of tender clause shall prevail.
30	Section-IV clause-2.1.1.2	2 Welding Process ISO 15607, 15609 & ISO 15614	It is OK for Sany.	Provision of clause shall prevail
31	Section-IV clause-2.1.1.3	3 Welder Qualification DIN EN /287/DIN ISO 9606	The latest standard are DIN EN ISO9606-2017; EN ISO9606-1-2017. Sany will follow the latest ones.	Provision of tender clause shall prevail.
32	Section-IV clause-2.1.1.4	4 Edge Preparation DIN 2559, 8551, EN 9692	The latest standard are DIN EN ISO 9692-1: 2013; EN ISO9692-1: 2013; ISO9692-1: 2013; Sany will follow the latest ones.	Provision of tender clause shall prevail.
33	Section-IV clause-2.1.1.5	5 Quality assurance of welding operation DIN 8563 / ISO 3834	DIN 8563 are old one and much of its content is obsolete. Sany will follow ISO3834-2 : 2021.	Provision of tender clause shall prevail.
34	Section-IV clause-2.1.2	2.1.2 Fabrication plan - The successful bidder should furnish the complete fabrication plan conforming to above-mentioned standards, at least one month before offer of machines for inspection. The successful bidder should provide the certificate / documents confirming material / welder trace ability, QAP (Quality Assurance Plan) of the	Since we will be importing the fabricated structural parts from our parent company, so we request to accept the QAP related documents/certificates provided by the manufacturing	Provision of clause shall prevail.

		fabrication, flaws detected in welded joint if any and corrective action thereon to the inspecting officials at the time of inspection of reach stacker at bidder's premises.	unit of our parent company. In previous tender of CONCOR those QAP related documents were accepted by CONCOR.	
35	Section-IV clause-2.1.3	<p>2.1.3. Stress releasing - The stress releasing of welded structure should be carried out in electric or gas fired furnace. The furnace should have provision for automatic temperature recording. Such records should be shown to inspecting agency.</p> <p>In case the bidder's design does not provide for stress relieving in an electric or gas fired furnace, the bidder should indicate the mechanism / provisions made in the design/manufacturing process to eliminate welding related defects such as stress, distortion, twist etc. It should also furnish the details that no crack in structures on account of these defects should be developed in future and the machine is able to meet the availability and reliability.</p>	We use "Shot Peening" process to release the welding stress. It is well accepted process for even automobile industry. Shot peening is similar to sandblasting, except that it operates by the mechanism of plasticity rather than abrasion: each particle functions as a ball-peen hammer.	Provision of tender clause shall prevail.
36	Section-IV clause-2.1.5	<p>2.1.5 Surface preparation and painting - All the surface to be painted should be cleared by grit/shot blasting as per DIN 55928 Pt.4. or Sand blasted to SA 2 ½. The surface condition should be treated with the following:-</p> <p>(2 coats of zinc epoxy primer - 30 to 50 micron thickness) (2 coats of MIO epoxy primer - 50 to 70 micron thickness)</p> <p>Painting 2 coats of acrylic epoxy paint - 25 to 40 micron thickness 2 coats acrylic epoxy paint - 40-micron thickness</p> <p>Total DFT should be in the range of 150 to 250 microns. Total paint thickness in terms of DFT of 80 to 250 microns with Salt resistance test of 200 hours in accordance with ASTM B117/ISO:9227 shall be alternatively accepted in place</p>	Regarding the big & middle size self-made components, we use SA - 2½, and use high-performance epoxy primer (60~80µm) + polyurethane intermediate (20~40µm) + polyurethane top coat (40~60µm), also we can provide "SGS salt spray test report." Please kindly accept.. Kindly Accept.	Provision of clause shall prevail.

		<p>of 150-250 microns.</p> <p>Alternatively Polyurethane paint is also acceptable subjected to submission of paint procedure & indicating salt resistance test proving similar or better than specified procedure as indicated above.</p>		
37	Section-IV clause-3.1	3.1 The main frame of the chassis should preferably of close box design to have high torsional rigidity.	We provide the box type of main frame of the chassis, but it is not absolutely airtight type.	Provision of clause shall prevail.
38	Section-IV clause-3.3	3.3 This shall be fabricated from high tensile steel minimum of 45 kg/mm ² UTS confirming to DIN standard. The successful bidder would provide the test certificate including metallurgical composition details of the specified high tensile steel used for the fabrication of chassis to the inspecting officials at the inspection of the machine at bidder's premises.	<p>Sany use GBQ355B high-strength steel. In tender, it requires: 45 kg/mm²=441MPa. According to Q355B:</p> <p>1) if steel plate thickness ≤100mm, UTS: 470-630MPa</p> <p>2) if steel plate thickness between 100 and 150mm, UTS: 450-600MPa</p> <p>Hence, we have met the tender requirement. Please kindly accept.</p>	Provision of tender clause shall prevail.
39	Section-IV clause-4.2	4.2 The boom shall be telescopic type fabricated from high tensile steel minimum of 55 kg/mm ² UTS conforming to DIN standard and of a MIG welded construction. The successful bidder would provide the test certificate including metallurgical composition details of the specified high tensile steel used for the fabrication of boom to the inspecting officials at the inspection of the machine at bidder's premises.	<p>Sany use high steel plate according to Q550D(HG70) standard - UTS 640-820 MPa and Q690D(HG785) standard- UTS 770-940 MPa for boom. In tender, it requires: 55 kg/mm²=539MPa. Hence, we have met the tender requirement. Please kindly accept.</p>	Provision of tender clause shall prevail.
40	Section-IV clause-4.3	4.3 The booms shall have slides of low friction oil impregnated nylon pads that can be removed for maintenance without dismantling the boom.	Sany provide lubricated nylon pad which is well proven since last 5 years. Kindly accept.	Provision of tender clause shall prevail.

41	Section-IV clause-4.4	4.4 The boom telescoping shall be through a suitable double acting cylinder with safety valves.	The cylinder we use is without safety valves, but the valves connected to the cylinder have safety valves.	Provision of clause shall prevail
42	Section-IV clause-4.5	4.5 The boom derricking shall be through two double acting cylinders equipped with safety valves with speed limiters.	The cylinder we use is without safety valves & without speed limiters, the connected system has safety valves; the speed limitation is realized by main valve. Kindly accept.	Provision of clause shall prevail.
43	Section-IV clause-4.6	4.6 Provision of self-levelling and hydraulically damped top lift.	We do provide the damping cylinder . Please clarify whether CONCOR needs a control switch for these cylinders in the operator's cabin?	Provision of clause shall prevail.
44	Section-IV clause-5.1	5.1 The Cabin shall be all weather proof for ensuring minimum corrosion. Alternatively, the bidder can provide cabins made of Mild Steel (MS) sheet also provided MS sheet is subjected to surface cleaning and coating activities i.e. degreasing / iron phosphating or equivalent treatment followed by 2 coat of epoxy primer followed by 2 coats of acrylic epoxy paint or polyurethane paint to withstand harsh Indian environmental conditions as stipulated in Clause 1.1 of Section-IV – Technical Specification. The Cabin should be tested for impact as per EN/ISO3691/ISO 6055.	Regarding existing operator's cabin, the primer is water-based epoxy resin electrophoresis paint, adopting cathodic electrophoresis process, the thickness of electrophoresis paint is 16 ~ 22 micron, and then spray acrylic polyurethane for middle coat and finishing coating, achieving total film thickness of 90 to 110 microns. Kindly accept.	Provision of tender clause shall prevail.
45	Section-IV clause-5.4	The roof glass should be sun controlled to enable the operator to view elevated loads. The glass provided on the cabin shall be splinter proof and toughened.	We provide single toughened glass with film coating to release this function.	Provision of clause shall prevail.
46	Section-IV clause-5.6	There should be an adjustable type steering column, which should be locatable at any angle	Steering column is adjustable but to certain angles due to limitation of space. So kindly remove "any angle".	Provision of tender clause shall prevail.

47	Section-IV clause-5.8	5.8 The cabin should be equipped with electric windscreen wiper on the front screen and on the roof and also air-cooling system. Suitable heater for working in extreme winter season should also be provided.	We provide the air-conditioner inside the operator's cabin, so the heating function (as per requirement of Indian climate) can be realized. No need of extra heater for the operator's cabin. Kindly Accept.	Provision of tender clause shall prevail.
48	Section-IV clause-5.10	5.10 The maximum noise level inside the cabin should not exceed 75 db according to DIN 45635/EN 12053	We adhere to the requirement of, "The maximum noise level inside the cabin should not exceed 75 db" but as per Chinese standard.	Provision of tender clause shall prevail.
49	Section-IV clause-6.1	6.1 Engine should be of reputed make such as VOLVO or Cummins, or Caterpillar etc. It should be provided with electronic fuel injection and control system. The turbo charger used in the engine should be proven design in the Indian Operating conditions mentioned in clause 1.1 above.	As per the standard of the specified Engine manufacturing OEM.	Provision of clause shall prevail.
50	Section-IV clause-6.6	6.6 Engine should have minimum torque of 1500 Nm at lower RPM.	Since the tender has already specified the brand of the engine manufacture, so the minimum torque will be as per the engine manufacturer's own design.	Provision of clause shall prevail.
51	Section-IV clause-6.8	6.8 Engine should have provision of important and standard safety features i.e. indication/warning in the operator's cabin and shutdown in case of <ul style="list-style-type: none"> • low lubricating oil level • low water level • low lubricating oil pressure • Idling of engine in case of high cooling water temperature • Engine starting only when the gear is in neutral position. 	In VOLVO engine, there is an interface for low lubricating oil level. But in Cummins, this function is not available. So kindly accept that this term will be as per the choice of the engine .	These are standard safety features and should have provision in terms of indication / warning in the operator cabin. Provision of clause shall prevail
52	Section-IV clause-6.10	6.10 For Diesel Engine, supplier shall submit component manufacturing standard quality certificate for the Diesel Engine. Engine used for the machines should conform to the	Kindly confirm, whether CONCOR needs the CPCB certification for the engines to be supplied ?	Clause is very clear and the supplied engine should confirm to the prevailing

		prevailing pollution control norms in Union of India.		pollution control norms in India. Provision of clause shall prevail.
53	Section-IV clause-7.2	7.2 DANA make TE 27 series or latest transmission with electronic transmission control. In case other transmission are planned to be provided, they shall have equivalent features, the details of which should be furnished along with the offer the detail should be furnished in a comparative format.	TE-30 / Dana 15.5 HR 36000 should be accepted. Kindly clarify.	Transmission should have the features as per clause 7.1 to 7.7 of section-IV of tender document. Provision of clause shall prevail.
54	Section-IV clause-9.2	9.2 The steering assembly shall be mounted to the chassis through a cradle arrangement providing an articulation of (+)/(-) 3 - 5 degree approximately with an. Electronic Overload Protection. This arrangement for providing relative movement between the rear axle and chassis by providing rubber bushings along with connecting pin to enable smooth movement over uneven surface.	Kindly elaborate the meaning of cradle & articulation in the specified context. Kindly clarify what is the meaning of the "Electric Overload Protection" in steering assembly.	Provision of clause shall prevail
55	Section-IV clause-9.4	9.4 The bearings used shall be tapered roller bearings thrust bearings capable of taking thrust loads. The bearing should be reputed make such as FAG, TIMKEN, SKF etc. of European /American origin only.	We choose LYC, China Make, with large-scale & long term use & already proven quality. Kindly accept. If CONCOR insist to use FAG, TIMKEN, SKF make bearings, then we request to accept the country of origin as China also , because they have the plant at China also. In case of European / American origin is mandatory, then it will take at least 5 months to receive the deliveries, which in turns will affect the contract execution	Provision of tender clause shall prevail.

			period.	
56	Section-IV clause-9.6	9.6 Alternate arrangement of overload, triggering device will be accepted. The details of alternate arrangement should be furnished.	We do have the Roll over protection system in which, in case the reachstacker handles an overload then it will automatically restrict the boom up function & only the boom down function can be realised. Is it acceptable to CONCOR? Or else kindly elaborate the requirement in a proper manner for better understanding.	Provision of tender clause shall prevail.
57	Section-IV clause-10.11	10.11 LED light should be used for indicating Twist lock position in the cab as well as on the spreader.	As per our design the indication of twist lock position is already incorporated in the operator's cabin display, so do CONCOR need LED light inside the operator's cabin also?	Provision of tender clause shall prevail.
58	Section-IV clause-12.1.d	12.0 Hydraulics system – The machine shall be equipped with the reliable hydraulic system with suitable hydraulic pumps for control, derricking, telescoping, spreader and steering functions. The hydraulic system should be designed to ensure smooth and consistent actuators movement, high operational speeds with low oil hydraulic pressure and low oil temperature. The machine hydraulics should be laid as per ISO:4401/4400 or DIN 24346/24340 or CETOP-3 or equivalent-----: 1. Hydraulic tank- d)Oil filtered air breather with a rating of 10 micron size.	Since the oil filtered air breather is only for air breather function, normally the rating is above 100 micron size. Kindly accept.	Provision of tender clause shall prevail.
59	Section-IV clause-12.3	3 Hydraulic system piping a) Pipe should conform to DIN 2391C, if any. b) Pipe should be given anti corrosive treatment.	Sany use 20# steel according to GBT3639 standard, corresponding to E255 in EN 10305-1.	Provision of tender clause shall prevail.

			Please kindly accept.	
60	Section-IV clause-12.4	4 Hydraulic filter a) Pressure filters and return filter of 10-micron size	Sany standard configuration, hydraulic system 10µm pilot filter, 10µm oil return filter brake system 20µm pressure filter, 100 µm oil suction filter. Please kindly accept.	Provision of tender clause shall prevail.
61	Section - IV clause-12.0.5	5 Hydraulic cylinder a) Made of high-grade single piece pipe/forging alloy steel such as C-50 or equivalent EN grade. b) Inner surfaced of cylinder honed/super finished with a Ra value of 0.1 – 0.40 micron c) Ovality and cylindricity should be within 40 - 50 micron d) Cylinder to be tested as per ISO 10100.	a) We Provide cylinder material grade as 27SiMn/25Mn. d) We follow GB/T15622 standard Kindly accept.	Provision of tender clause shall prevail.
62	Section - IV clause-12.0.6	Hydraulic piston rod a) Made of high-grade single piece forging alloy steel such as C-50 or equivalent EN grade. b) Heat-treated to have surface hardness of 58 +/- 4 HRC. c) Surface finish of the piston – 0.1 – 0.2 micron. d) Ovality and cylindricity within 40 micron.	a) We use this kind of 40Cr/45 material alloy. b) We provide: 255HB-305HB Kindly accept.	Provision of tender clause shall prevail.
63	Section-IV clause-13.2	13.2 Arrangement of fail-safe hydraulic braking system has to provide separate tank, cooling and filtering arrangement. The cooling system should have thermostatic control. Instead of separate tank for brake system, a common tank with hydraulic system and cooling system will be alternatively acceptable.	Kindly clarify the "thermostatic control" need for cooling system.	Provision of clause shall prevail.
64	Section-IV clause-14.1	14.1 An electronic CANBUS system should be designed to interlink engine, transmission, spreader, joystick, accelerator pedal and hydraulic system. The CANBUS system including its components such as sensors, connectors etc should be designed to work in temperature of 0-70 degree centigrade and shock level to 32 g acceleration.	Shock level to 32g acceleration is extremely high & not required for Reach stacker. We provide the shock level to 10g acceleration. Kindly accept.	Provision of tender clause shall prevail.

65	Section-IV clause-14.3	<p>The wires/cables used in the system should conform to DIN Standard or equivalent IEC, CE, ISO, SAE or UL Standards i.e.</p> <table><tr><th>S L</th><th>Type of Wire</th><th>Standard s</th></tr><tr><td>1</td><td>Wire for Engines, Fans, Pumps, Switches etc.</td><td>VDE 0295 Class- 5/IEC 228/</td></tr><tr><td>2</td><td>Wire for Thermo Contact 24 Volt of Engines, Fans, etc.</td><td>VDE 0812</td></tr><tr><td>3</td><td>Wire for Temperature Sensors</td><td>VDE 0812</td></tr><tr><td>4</td><td>Wire for Lighting Circuit</td><td>VDE 0293</td></tr><tr><td>5</td><td>Wire for Communicati on</td><td>VDE 0295 Class5/IE C 228</td></tr></table> <p>Note: Wires / cables of alternative standards such as</p>	S L	Type of Wire	Standard s	1	Wire for Engines, Fans, Pumps, Switches etc.	VDE 0295 Class- 5/IEC 228/	2	Wire for Thermo Contact 24 Volt of Engines, Fans, etc.	VDE 0812	3	Wire for Temperature Sensors	VDE 0812	4	Wire for Lighting Circuit	VDE 0293	5	Wire for Communicati on	VDE 0295 Class5/IE C 228	<p>We normally follow ISO /CE /DIN standard for cables which are widely accepted. Kindly accept. We cannot follow VDE standard.</p>	<p>Provision of tender clause shall prevail.</p>
S L	Type of Wire	Standard s																				
1	Wire for Engines, Fans, Pumps, Switches etc.	VDE 0295 Class- 5/IEC 228/																				
2	Wire for Thermo Contact 24 Volt of Engines, Fans, etc.	VDE 0812																				
3	Wire for Temperature Sensors	VDE 0812																				
4	Wire for Lighting Circuit	VDE 0293																				
5	Wire for Communicati on	VDE 0295 Class5/IE C 228																				

		CE/ISO/SAE etc. can also be accepted provided their performance is equivalent / superior to the specified one. The bidder would provide test certificate in support of wire / harness conforming to the VDE / IEC / CE / ISO/UL standards to the inspecting officials at the time of inspection of reach stackers at bidder's premises.		
66	Section-IV clause-14.4.a	<p>14.4 Lighting – The reach stacker shall be equipped with the following lighting arrangement: -</p> <ul style="list-style-type: none"> a) Halogen Elect. Lamps (High beam light) b) Parking-cum-traffic indication-cum brake lights c) Front. Rear and Boom mounted night working lamp.(min. 4 nos.) d) Fog Lights e) Overhead blinking warning lamps f) Cabin Lights g) Twist lock illumination at all spreader positions h) Side Light i) Minimum two head lights. <p>Note: The bidder should provide LED lamps for the lighting system to the extent possible.</p>	We provide LED type. Kindly Accept.	Provision of clause shall prevail.
67	Section-IV clause-14.4.d	14.4 Lighting – The reach stacker shall be equipped with the following lighting arrangement: - d) Fog Lights	In our reach stackers, there is no Fog Lights, but we provide high illumination level LED head light. Kindly Accept.	Provision of clause shall prevail.
68	Section-IV clause-14.6	14.6 Five laptops alongwith required connectors with requisite software/tools for downloading data from machine of various sub-assemblies and fault diagnostics	We understand that, a total no. of laptops will be five for this contract. Kindly clarify? Also the programme for the engine cannot be provided because of engine manufacturer's exclusivity terms. Kindly clarify.	Total 5 nos of Laptops are required in the contract. Provision of clause shall prevail.

69	Section-IV clause-15.1.ii	<p>15.1 The following safety features should be provided.</p> <p>(i) Anti-tipping device with automatic hydraulic cut off system. The system provided should be explained in the offer.</p> <p>(ii) All hydraulic cylinders to be fitted with a suitable lock valve to prevent load slipping due to hydraulic failure or hose breakage.</p> <p>(iii) Hydraulic circuits fitted with over pressure by-pass valve.</p> <p>(iv) Brake system provided with fail-safe engagement in case of pressure drop.</p> <p>(v) Protection for unlocking of circuit locks during lifting function. Further, twist lock should be operated only if spreader landed properly on the container. Twist lock control monitor at all time.</p> <p>(vi) Lifting only possible if all the locks are either totally latched or unlatched.</p> <p>(vii) Reverse horn with blinking light operated automatically while reversing the reach stackers.</p> <p>(viii) Load Management System and Overload protection. The details of alternative arrangement should be furnished.</p> <p>(ix) Container should not touch with boom while handling.</p> <p>(x) Prevent collision of Boom and spreader.</p> <p>(xi) Gearbox anti-reverse protection.</p> <p>(xii) Protective PVC or other suitable material sleeves over the hoses at critical locations having possibility of rubbing or other damages.</p> <p>(xiii) 02 nos. fire extinguisher to be kept in cabin as part of the standard equipments in RSTs.</p>	As per our design, the lifting cylinder and the telescopic boom cylinder are with said function. Rest of the cylinders does not require this function. So kindly limit this requirement only upto lifting cylinders & boom telescopic cylinder.	Provision of tender clause shall prevail.
70	Section-IV clause-15.1	<p>15.1 The following safety features should be provided.</p> <p>(i) Anti-tipping device with automatic hydraulic cut off</p>	We can realize this function by using our own make spreader only. By using other make, we	Provision of clause shall prevail.

		<p>system. The system provided should be explained in the offer.</p> <ul style="list-style-type: none"> (ii) All hydraulic cylinders to be fitted with a suitable lock valve to prevent load slipping due to hydraulic failure or hose breakage. (iii) Hydraulic circuits fitted with over pressure by-pass valve. (iv) Brake system provided with fail-safe engagement in case of pressure drop. (v) Protection for unlocking of circuit locks during lifting function. Further, twist lock should be operated only if spreader landed properly on the container. Twist lock control monitor at all time. (vi) Lifting only possible if all the locks are either totally latched or unlatched. (vii) Reverse horn with blinking light operated automatically while reversing the reach stackers. (viii) Load Management System and Overload protection. The details of alternative arrangement should be furnished. (ix) Container should not touch with boom while handling. (x) Prevent collision of Boom and spreader. (xi) Gearbox anti-reverse protection. (xii) Protective PVC or other suitable material sleeves over the hoses at critical locations having possibility of rubbing or other damages. (xiii) 02 nos. fire extinguisher to be kept in cabin as part of the standard equipments in RSTs. 	may not realize this function.	
71	Section-IV clause-17.7	17.7 Group greasing/common point greasing facilities for sub-assemblies such as spreader, boom, drive, and steering axles etc. should be provided so as to minimize the greasing	Please kindly note: it is group points greasing by manual operation, not automatic	Provision of clause shall prevail.

		efforts and maintenance time	lubrication system.	
72	Section-IV clause-17.11	<p>17.11 Successful bidder should submit assembly and disassembly sequence structure of major sub assemblies such as engine, transmission, pumps, brakes, cylinders, hydraulic motors, wheels, axles, valve blocks.</p> <p>Further a parent-child relationship for the subassemblies and assemblies (BOM), with individual part nos. is to be provided by the successful bidder in .xml format for use in inventory management system of CONCOR.</p>	<p>We shall provide an exhaustive list of major components only along with the product catalogue of the major bought out items. As per confidentiality policy we may not reveal the BOM & part numbers to CONCOR. Kindly accept.</p>	<p>Individual OEM and/or OPM part nos. needs to be provided by the successful bidder in .xml format for use in inventory management system of CONCOR.</p> <p>Provision of tender clause shall prevail.</p>
73	Section-IV clause-18	18.0 Acceptance Test - Testing of the reach stacker should be in accordance of following latest standards:	-	-
74	Section-IV clause-18.9	<p>18.9.1 Testing of Hydraulic Cylinders – The testing of hydraulic cylinder should be carried out as per ISO 10100 Second Edition or latest. In case this is procured from outside agency, a copy of Test Certificate for each cylinder should be shown to the Inspecting Agency at the time of inspection of the machines at the bidder’s premises.</p> <p>18.9.2 Contamination level – A test certificate indicating the level of contamination in hydraulic oil for each machine should be shown to the inspecting agency at the time of inspection of the machines at the bidder’s premises.</p>	<p>Please kindly note: as an OEM, we have our own way to test the hydraulic system, which may not be in line with Tender content.</p>	<p>Provision of tender clause shall prevail.</p>
75	Section-IV clause-18.9.1	<p>18.9.1 Testing of Hydraulic Cylinders – The testing of hydraulic cylinder should be carried out as per ISO 10100 Second Edition or latest. In case this is procured from outside agency, a copy of Test Certificate for each cylinder should be shown to the Inspecting Agency at the time of inspection of the machines at the bidder’s premises.</p> <p>18.9.2 Contamination level – A test certificate indicating the level of contamination in hydraulic oil for each machine should be shown to the inspecting agency at the time of inspection of the machines at the bidder’s premises.</p>	<p>Since we are using our sister concern company cylinder- Loudi Zhongxin Make cylinder, the test will be as our own standard. These cylinders are designed & manufactured according to ISO standard.</p>	<p>Provision of tender clause shall prevail.</p>

76	Section-IV clause-18.12.1	18.12.1 The successful bidder shall prepare and submit a comprehensive scheme of training to have long term interests in the need to build up the trained technical manpower for maintenance of these RSTs. The supplier shall implement/undertake to impart on job training to Purchaser's personnel. The supplier shall depute their qualified trainer for two days at each locations (17 Locations) of CONCOR where machines under the contract will be commissioned to impart training on operation and maintenance of Engine , Transmission, Spreader, Hydraulics and Electricals etc.			Since the COVID-19 is still not under control, please kindly accept online training.	In the clause, on job training is mentioned where qualified trainer need to be deputed for two days at each location for imparting training on operation and maintenance. COVID-19 protocol needs to be followed. Provision of clause shall prevail.
77	Schedule- II clause-5	5	SLEW RING	ROTHE ERDE, ELME (SWEDEN), SKF (GERMANY – SWEDEN), FAG (GERMANY)	We have our own make of slew ring which is well proven. Kindly accept.	Provision of tender clause shall prevail.
78	Schedule- II clause-7	7	LMI	3 B6/COBO, ITALY / PARKER IQAN / OWN MAKE CONFIRMING TO CE / ISO / DIN STANDARD	As per our understanding 3 B6/COBO is only sensor to realize the LMI. Please kindly clarify .	Provision of tender clause shall prevail.
79	Schedule- II clause-9	9	HYDRAU LIC CYLINDE RS	REXROTH / YUKEN/PARKER / VAGGERYDS/ Equivalent MAKE CONFIRMING TO CE / ISO / DIN STANDARD/WIPRO/P MC CYLINDERS	We have our own make cylinders for all range of products and well proven globally. As a policy matter, we may not use other make. Kindly accept supplier's make cylinder.	Provision of tender clause shall prevail.

80	Schedule- II clause-16	16	JOYSTIC K CONTRO L	REXROTH, Kiepe (Germany), Penny Giles (UK), Monsun Tison (Sweden), GESSMAN, DANFOSS, CALADA/ ELOBAU, HYDRECO, DAVID BROWN, WALVOIL,CONFIRMING TO CE / EN STANDARDS		We suggest to add one more reputed brand - Danfoss. Also please kindly note Penny Giles plant has shifted to China in 2019 from UK, now the COO of Penny Giles will be China only.	Provision of tender clause shall prevail.				
81	Schedule- III clause-18	<table><tr><td>18</td><td>7.7</td><td>Is transmission have provision of automatic power shift and have four forward four reverse speeds</td><td>Automati c power shift, Min-4 Forward Min-3 Reverse</td></tr></table>				18	7.7	Is transmission have provision of automatic power shift and have four forward four reverse speeds	Automati c power shift, Min-4 Forward Min-3 Reverse	As it has mentioned in tender,TE27 or latest transmission will be accepted, TE30 as DANA latest Transmission Forward:5 Reverse: 3	Provision of clause shall prevail.
18	7.7	Is transmission have provision of automatic power shift and have four forward four reverse speeds	Automati c power shift, Min-4 Forward Min-3 Reverse								
82	Schedule- III clause-22	22	9.4 Submit make of bearing to be used FAG, TIMKEN, SKF, Etc. of European/American origin.			Since FAG, TIMEN, SKF has global factory, COO should not be restricted in Europe.	Provision of tender clause shall prevail.				
83		<table><tr><td>8</td><td>Date and time opening of Bid</td><td colspan="2">03.09.2021 at 11:00 Hrs</td></tr></table>			8	Date and time opening of Bid	03.09.2021 at 11:00 Hrs			Request to grant extension for bid submission to date 04/10/2021.	Corrigendum-1 issued for extension of bid opening date to 17.09.2021
8	Date and time opening of Bid	03.09.2021 at 11:00 Hrs									

84	Clause No. 2.0 of Section II	<p>2.0 Qualification Criteria</p> <p>The bidder shall provide satisfactory evidence acceptable to the Purchaser to show that -</p> <p>2.1 The bidder is a manufacturer or an authorized dealer of a manufacturer (as per Annexure 15) having experience of:</p> <p>a) Having successfully supplied / executed at least one single purchase order of Government departments/CPSEs/SPSEs/Public listed companies/ICD/DCT/MMLP /Ports/CFS/ CTOs for similar item during previous three financial years and current financial year last day of month previous to the one in which tender is invited. The said item should have been supplied and commissioned successfully during the period mentioned above. Work experience certificate issued by private individual shall not be considered. Work experience certificate as per format attached at Annexure-14 should be submitted. The work experience certificate should have been issued within 90 days prior to tender opening date. If an authorized dealer submits bid on behalf of the manufacturer, the same dealer shall not submit a bid on behalf of another manufacturer in the same tender for the same item/product. Either Manufacturer OR their authorised dealer can quote. But both cannot bid simultaneously for the same item/product in the same tender.</p>	<p>Against the Tender enquiry of 35 Nos. machines, it is mentioned under Qualification Criteria that the bidder should have successfully just one similar item. There is no proven-ness criteria that the machine should have successfully been running for past 3 – 5 years or so. It is pertinent to note that In the previous tenders published in 2015 and 2017 of 20 Nos. and 49 Nos. respectively, the qualification criteria was for supply of 12 RSTs and 30 RSTs in past 3 years so that CONCOR gets a proven machine. In this tender, such a diluted QR will allow suppliers without any proven record to participate which will be a disadvantage to suppliers who quote international standards, technologically upgraded machine. CONCOR has already taken a cognizance that 'Reach Stackers are the type of equipment which are related to public safety thus only proven suppliers should be qualified.</p>	Provision of clause shall prevail.
85	Clause No. 2.0 of Section II	<p>b) The Tenderer must have received total contractual payments/ turnover/revenue (income) from operations of Rs.1333 Lakhs in the previous three financial Years (i.e.FY</p>	<p>The estimated cost of the tender is 88.90 Crores. However, the QR mentions total revenue for 3 FYs</p>	Provision of clause shall prevail.

		<p>2018-19, FY2019-20 & FY2020-21) and the current Financial Year last day of month previous to the one in which tender is invited.</p> <p>The tenderers shall submit Certificates to this effect which may be an attested Certificate from the concerned department / client or Audited Balance Sheet duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet. For current Financial Year certificate with regard to received total contractual payment/turnover/revenue (income) from operation should be duly certified by the Chartered Accountant.</p> <p>Note: Client certificate from other than Govt Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax Department of India.</p>	<p>should be just 1333 Lacs which is an average of not even 5 Crores per annum. Going by this, any manufacturer will take 18 years to supply all the machines. This is again not justifiable for the prospective bidders.</p>	
86	Clause 19.6 of Section IV	<p>19.6 The bidder should confirm and submit certificate from the manufacturer of sub-assemblies that the product offered / sub-assemblies shall not have “End of Sale” (withdrawal from market) for at least 2 years and “End of Service”(stoppage of after sale service and spare parts support) for at least 8 years form the date of NOA</p>	<p>It is prudent to note that there is no criteria mentioning the experience of manufacturing of Reach Stackers by the bidder. The bidder might not be in the business of RSTs for past 8 years. The proven manufacturers shall be on major disadvantage due to participation of inexperienced bidders.</p>	<p>Clause stipulates that the product offered / sub-assemblies shall not have “End of Sale” (withdrawal from market) for at least 2 years and “End of Service” (stoppage of after sale service and spare parts support) for at least 8 years form the date of NOA . It has no linkage to the bidder being in the business for last 8 years.</p> <p>Provision of clause shall prevail.</p>
	Clause 6.8 of Section-IV	<p>6.8 Engine should have provision of important and standard safety features i.e. indication/warning in the operator’s cabin and shutdown in case of</p>	<p>With modern engines with electronic controls some of these safety features are incorporated</p>	<p>Provision of clause shall prevail.</p>

		<ul style="list-style-type: none">• low lubricating oil level• low water level• low lubricating oil pressure• Idling of engine in case of high cooling water temperature• Engine starting only when the gear is in neutral position.			in engine ECM with sensors thus separate indications should not be required. Therefore the first sentence should be changed as below: Engine should have provision of important and standard safety features i.e. indication/warning in the operator's cabin/incorporation in engine control unit and/or shutdown in case of																									
87	Schedule of Requirements Section – V		<table><tr><td>1st lot of 03 nos. of RST machine</td><td>D + 150</td></tr><tr><td>2nd lot of 03 nos. of RST machine</td><td>D + 180</td></tr><tr><td>3rd lot of 03 nos. of RST machine</td><td>D + 210</td></tr><tr><td>4th lot of 03 nos. of RST machine</td><td>D + 240</td></tr><tr><td>5th lot of 03 nos. of RST machine</td><td>D + 270</td></tr><tr><td>6th lot of 03 nos. of RST machine</td><td>D + 300</td></tr><tr><td>7th lot of 03 nos. of RST machine</td><td>D + 330</td></tr><tr><td>8th lot of 03 nos. of RST machine</td><td>D + 360</td></tr><tr><td>9th lot of 03 nos. of RST machine</td><td>D + 390</td></tr><tr><td>10th lot of 03 nos. of RST machine</td><td>D+420</td></tr><tr><td>11th lot of 03 nos. of RST machine</td><td>D+450</td></tr><tr><td>12th lot of 02 nos. of RST machine</td><td>D+480</td></tr></table>	1st lot of 03 nos. of RST machine	D + 150	2nd lot of 03 nos. of RST machine	D + 180	3rd lot of 03 nos. of RST machine	D + 210	4th lot of 03 nos. of RST machine	D + 240	5th lot of 03 nos. of RST machine	D + 270	6th lot of 03 nos. of RST machine	D + 300	7th lot of 03 nos. of RST machine	D + 330	8th lot of 03 nos. of RST machine	D + 360	9th lot of 03 nos. of RST machine	D + 390	10th lot of 03 nos. of RST machine	D+420	11th lot of 03 nos. of RST machine	D+450	12th lot of 02 nos. of RST machine	D+480		Considering the global pandemic situation the supplies from various vendors are badly affected. There are worldwide component shortages. We, therefore, request you to amend the Delivery period as D+240 for the first lot. We also suggest that subsequent lots sizes can be increased so that the completion date of the contract remains as D+480.	Provision of tender clause shall prevail.
1st lot of 03 nos. of RST machine	D + 150																													
2nd lot of 03 nos. of RST machine	D + 180																													
3rd lot of 03 nos. of RST machine	D + 210																													
4th lot of 03 nos. of RST machine	D + 240																													
5th lot of 03 nos. of RST machine	D + 270																													
6th lot of 03 nos. of RST machine	D + 300																													
7th lot of 03 nos. of RST machine	D + 330																													
8th lot of 03 nos. of RST machine	D + 360																													
9th lot of 03 nos. of RST machine	D + 390																													
10th lot of 03 nos. of RST machine	D+420																													
11th lot of 03 nos. of RST machine	D+450																													
12th lot of 02 nos. of RST machine	D+480																													
88	Clause 6.4 & 6.6 of Section IV	6.4 The displacement of engine should not be less than 10 litres design to meet the tender conditions and power not less than 245 KW rating should be decided as per ISO 1585. 6.6 Engine should have minimum torque of			a) It may please be noted that Hyster TIL reach stackers would incorporate two models of engines complying to the above specifications and having displacements of 11 (10.8) and	Provision of tender clause shall prevail.																								

		1500 Nm at lower RPM.	<p>12 (11.9) Litres respectively, taking care that machines in same terminal would have the same model of engine. This is based on technical upgradations considering long delivery schedules.</p> <p>b) As long as RST is able to meet the performance and productivity criterion, the clause 6.4 & 6.6 mentioning displacement & torque should be removed</p>	
89	Clause 10 of Section – IV	<p>10.0 Spreader:</p> <p>10.1 The spreader shall be telescopic and capable to handle standard ISO dimension containers at 20 ft and 40 ft. location. The spreader should be of reputed make such as BROMMA, or ELME or RAM The spreader should have all the features listed in the following para's.</p> <p>10.2 The spreader should be designed as per DIN 15018 H2B4. It should be fabricated from high tensile alloy steel</p> <p>10.3. Self-leveling & hydraulically damped top lift</p> <p>10.4 Rotations – 95 Degree To + 185 Degree.</p> <p>10.5 Power Side Shift Movement Range +/- 800mm</p> <p>10.6 The Spreader Rotation Should Be Through Two Hydraulic Motor for Load Sharing</p>	<p>As this is a 'Make In India' tender, we strongly recommend to allow the bidders to supply the Spreader as per the Specifications mentioned under Clause 10.</p> <p>As per the feedback from various terminals of CONCOR, few terminal managers have strongly recommended indigenous spreader due to availability of spare parts and their prices. Accordingly, we request you to add "Or equivalent" make spreader in the "Makes' under Sl. No. 6 of Schedule - II</p>	Provision of clause shall prevail.

		<p>10.7 Spreader 40' To 20' Shift in Max. 20 Seconds for Spreader. The Side Shift Hydraulic Cylinders/Mechanism Should Have Adequate Rigidity/Protection To Have Longer Life Of Oil Seals And Reliability. Adequate Strengthening Of Cylinders/Mechanism to Be Made To Reduce Possibility Of Spreader Extension Cylinder/Mechanism (20 – 40) Getting Bent Or Having Failure Of Its Mounting.</p> <p>10.8. Electronic Safety Overload System.</p> <p>10.9 The Spreader Should Have Controls For Spreader Extension Through A PLC And Operator Interface.</p> <p>10.10 The spreader shall be equipped with a standard ISO twist locks.</p> <p>10.11 LED light should be used for indicating Twist lock position in the cab as well as on the spreader.</p>		
90	Clause 16 of Section – II & Annexure 5	<p>16.0 PERFORMANCE GUARANTEE</p> <p>The successful bidder shall be required to submit performance guarantee equivalent to 3% of the contract price as per format given in Annexure-5 within 30 days of issue of Notification of Award.</p> <p>Extension of time for submission of PBG beyond 30 days and upto a maximum of 60 days from the date of issue of NOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12 % per annum shall be charged for the delay beyond 30 days i.e. 31 day after the issue of the NOA. Further, if the 60th day happens to be a declared holiday in the concerned office, submission of PBG can be accepted on next working day.</p>	One single Bank guarantee has been mentioned. However, the warranty an delivery period of each RST is different and lasts up to 480 days. We request you to consider our request for offering of 12 separate BGs – One for each lot against a single BG applicable for D+1300 days.	Provision of clause shall prevail.

		<p>If the contractor fails to submit the requisite PBG even after 60 days from the date of issue of the NOA, the contract shall be terminated. In case contract is terminated CONCOR shall be entailed to take necessary action as per Clause 3.3 of Section-II of the tender document.</p> <p>The Performance Bank Guarantee shall be from any Nationalized/Scheduled Commercial Bank in India.</p> <p>The Reach Stackers shall be guaranteed against any defects or omissions in construction, poor workmanship, or defective materials for a period of Twenty four (24) months after receipt and commissioning of each Reach Stacker Machine at consignee locations. The validity of performance bank guarantee should be 3 month (90 days) more than the stipulated guarantee period of 24 months from the receipt and commissioning of the last lot of machine as per Delivery Schedule (Section-V).</p> <p>The performance guarantee shall be in favour of "Container Corporation of India Ltd.", New Delhi.</p>		
91	Clause 8.3 of Section - III	<p>8.3 Attention to Warranty/Guarantee Requirement (Repair) – CONCOR shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon being notified by CONCOR, the supplier or their authorized representative should respond within two (2) hours irrespective of whether it is night or day, Saturday, Sunday or Public Holiday and make all necessary arrangements to carry out the repairs in the shortest possible time. The supplier should repair or replace the defective sub-assemblies of RST machines without cost to CONCOR within 48 (forty eight) hours of being informed by CONCOR of the defects unless good reasons acceptable to CONCOR are given. For repairs, which in the opinion of CONCOR cannot</p>	<p>TIL will put in all possible efforts to respond and repair the RSTs within the stipulated time periods mentioned in the tender. Further, any Accidents, misuse or not adhering to warranty norms of the manufacturers will not be covered in any penalty. However, considering:</p> <p>(a) The RSTs will be supplied at various 17 different locations.</p> <p>(b) The criticality of the problem.</p> <p>(c) Usage of the machines</p>	<p>Provision of clause shall prevail.</p>

		be completed within the said 48 hours, the supplier and CONCOR shall agree as to the time required for repairs. In case supplier is not able to arrange material/repair the failed item within 48 Hours, a penalty of Rs. 5000/- per day will be imposed. The Supplier should pay the penalty amount to CONCOR or the same will be recovered/adjusted against their pending bills or from performance guarantee at the time of releasing of Performance security.	(d) Force Majeure and other related circumstances. etc. It would not be possible to accept such a stringent penalty clause. Request you to amend and delete this clause.	
92	Annexure -9 of Section – VI	ANNEXURE – 9 SAMPLE SHEET FOR EVALUATING PRICE BID	As the price has to be quoted in Sept 2021 and deliveries will continue till Mid 2023, Would appreciate if the prices are indexed to Steel price and Euro/INR exchange rate. Thus we request you to allow price Escalation based on this. Actual price at the time of delivery can be adjusted based on inflation.	Provision of clause shall prevail.
93	Annexure -9 of Section – VI	ANNEXURE – 9 SAMPLE SHEET FOR EVALUATING PRICE BID	As per Circular No. 13 of 2021 dated 30th June 2021, Ministry of Finance, Govt. of India has proposed to apply TCS (Tax Collection at Source on the total invoice Value of the RST. We request you to make a provision in the Price Bid to quote for the TCS also.	Provision of clause shall prevail.
94	Technical Recommendation		During our visits to various terminals, it	Provision of clause shall prevail.

	n				has been observed that one helper is generally standing alongside the operator of the machine which is not at all recommended at per safety norms. We, therefore, strongly recommend to mention an additional seat in the operator cabin to ensure safe operations.	
95	Clause 9.2 of Section – IV	9.2 The steering assembly shall be mounted to the chassis through a cradle arrangement providing an articulation of (+)/(-) 3 - 5 degree approximately with an. Electronic Overload Protection. This arrangement for providing relative movement between the rear axle and chassis by providing rubber bushings along with connecting pin to enable smooth movement over uneven surface.			The following is not the part of the design of steering assembly and should be deleted from the Clause. It is technically not feasible to offer and supply. Further, This was not mentioned in the earlier tenders also: This arrangement for providing relative movement between the rear axle and chassis by providing rubber bushings along with connecting pin to enable smooth movement over uneven surface.	Provision of tender clause shall prevail.
96	Clause 17.11 of Section - IV	17.11 Successful bidder should submit assembly and disassembly sequence structure of major sub assemblies such as engine, transmission, pumps, brakes, cylinders, hydraulic motors, wheels, axles, valve blocks. Further, a parent-child relationship for the sub assemblies and assemblies (bill of material), with individual part numbers is to be provided by the successful bidder in .xml format for use in inventory management system of CONCOR.			Necessary Operation, Maintenance and Parts Manuals would be provided for the supplied machines. Submission of bill of Material with individual part numbers would be done only to the extent without disclosure of proprietary data.	Individual OEM and/or OPM part nos. needs to be provided by the successful bidder in .xml format for use in inventory management system of CONCOR. Provision of tender clause shall prevail.
97	Schedule II Sec-IV . SI	12 HYDRAULIC OIL COOLER	RITTAL/EMMEGI /WERNER FINLAY		Request CONCOR to add the reputed makes of “AKG India”	Provision of tender clause shall prevail.

	No. 12		(AIR COOLED) / AKG GERMANY / STANDARD RADIATOR /OIL TECH /PARKER/Ymer/ OLAER		and “Nissens”.	
98	Clause-2.0 of Section-III	2.0 INSPECTION The supplier shall appoint an Inspection agency i.e. BV (Bureau Veritas)/LR (Lloyd’s Register)/ABS Group (ABS Industrial verification /GL (Germanischer Lloyd)/ IRS (IR CLASS Industrial Service) at his own cost for carrying out inspection as per the Technical specifications of the tender document at Suppliers/Purchaser site. Scope of work of inspection has to be got approved by the successful bidder from CONCOR within 60 Days of issue of LOA. The charges payable to inspection agency shall be deemed to be included in the Machine price.			We request to add TUV as an inspection Agency	Provision of tender clause shall prevail.
99	Section –II Of Clause- 2.1.a.	2.0 Qualification Criteria The bidder shall provide satisfactory evidence acceptable to the Purchaser to show that - 2.1 The bidder is a manufacturer or an authorized dealer of a manufacturer (as per Annexure 15) having experience of: a) Having successfully supplied / executed at least one single purchase order of Government departments/CPSEs/SPSEs/Public listed companies/ICD/DCT/MMLP /Ports/CFS/ CTOs for similar item during previous three financial years and current financial year last day of month previous to the one in which tender is invited. The said item should have been supplied and commissioned successfully during the period mentioned			Loadstar is the only 100% Indian company without any foreign tie-ups, meeting the goals of the Atmanirbhar programme of the Government of India. Loadstar comes with 32 years of experience, from the Indital brand, having made hundreds of Reach stackers. Loadstar is also a startup, having begun operations only in December of 2017. The lockdowns due to the COVID19 pandemic also severely limited our operations. With the above, it is unfair to ask this lone MSME	As per the qualification criteria, successful execution of a one single purchase order of Government departments/CPSEs/SPSEs/Public listed companies/ICD/DCT/MMLP /Ports/CFS/ CTOs for similar item during previous three financial years and current financial year last day of month previous to the one in which tender is invited. The said item should have been supplied and commissioned

		<p>above. Work experience certificate issued by private individual shall not be considered. Work experience certificate as per format attached at Annexure-14 should be submitted. The work experience certificate should have been issued within 90 days prior to tender opening date.</p> <p>If an authorized dealer submits bid on behalf of the manufacturer, the same dealer shall not submit a bid on behalf of another manufacturer in the same tender for the same item/product. Either Manufacturer OR their authorized dealer can quote. But both cannot bid simultaneously for the same item/product in the same tender.</p>	<p>participant to have supplied to government departments as pre-qualification. We request that CONCOR to please include work experience certificates from private customers as well.</p>	<p>successfully during the period mentioned above. Work experience certificate issued by private individual shall not be considered.</p> <p>Provision of clause shall prevail.</p>
100	Section-II of Clause- 3.2. (vii)	<p>3.2 Exemption: Indian bidders registered as “Micro and Small Enterprises” (MSE’s) for the tendered item with any of the following agencies shall be considered eligible for treatment as MSE’s for the purpose of this tender:</p> <ul style="list-style-type: none"> (i) District Industries Centers (ii) Khadi and Village Industries Commission (iii) Khadi and Village Industries Board (iv) Coir Board (v) National Small Industries Corporation (vi) Directorate of Handicraft and Handloom (vii) MSEs have started Udyog Aadhar Memorandum (UAM), an online registration system since 18th September, 2015 and all MSEs who are having Udyog Aadhar Memorandum will be given all benefits available under Public Procurement Policy for MSEs issued in 2012 and amended from time to time. (viii) Any other body specified by the Ministry of MSME, Government of India <p>Such MSE bidders shall submit copy of valid Registration Certificate/Udyog Aadhar along with the bid as per latest MSME guidelines, clearly including the tendered item in the</p>	<p>The Udyog Aadhar Memorandum is revised to UDYAM Certificate in 2021. Loadstar has an Udyam certificate identifying us as an MSE.</p> <p>It is mentioned that the certificate should include the tendered equipment, i.e. Reach stacker.</p> <p>It should be noted that all equipment have been brought under NIC (National Industrial Classification) Division 28. Under this classification, Reach stackers are not specifically mentioned. It falls under division 28162 ‘Manufacture of other Lifting and Handling Equipment and parts thereof’, which will include Reach stackers.</p> <p>So, the clause asking for the mention of the tendered</p>	<p>Amendment No, 1 is issued as under:</p> <p>(ix) MSEs having Udyam Registration Certificate issued by Ministry of MSME.</p> <p>MSE’s Broad classification under NIC (National Industrial Classification) covering the tendered item in that category would be acceptable.</p>

		<p>registration certificate and the terminal validity date of registration. E-bids not accompanied by a valid Registration Certificate/Udyog Aadhar shall be treated as e-bids from non-MSEs.</p>	<p>equipment in the certificate is to be replaced by a requirement of division 28162 of the NIC.</p>	
101	Section-II of Clause 24.0	<p>24.0 Public Procurement (Preference to Make In India):-</p> <p>Definitions:</p> <p>Local Content:- Local content means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.</p> <p>Class-I Local Supplier:- Class-I Local supplier' means a supplier or service provider, whose goods, services or works offered for procurement has local content equal to or more than 50%.</p> <p>Class-II Local Supplier:- Class-II Local Supplier means a supplier or service provider whose goods, services or works offered for procurement has local content more than 20% but less than 50%.</p> <p>Non Local Supplier:- Non Local Supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%.</p> <p>L-1:- L1 means the lowest tender or lowest bid or the lowest quotation received in a tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.</p>	<p>The following main aggregates have to be imported to meet the tender technical specifications: Spreader, Engine, Transmission, Drive Axle, and Hydraulics. The aforementioned aggregates constitute the major portion of the input. As such, a Class-1 supplier cannot practically exist, according to the tender specifications. By giving an option for the locally-made Loadstar Spreader, for which we can give double the warranty of imported Spreaders, we can participate as a Class-1 supplier.</p>	<p>Provision of clause shall prevail.</p>

		<p>Margin of Purchase Preference:- Margin of purchase preference means the maximum extent to which the price quoted by a Class-I local supplier may be above the L1 for the purpose of purchase preference. The margin of purchase preference shall be 20%.</p> <p>Nodal Ministry:- Nodal Ministry means the Ministry or Department identified pursuant to this order in respect of a particular item of goods or services or works.</p>		
102	Section-IV of Clause- 5.3	5.3 The cabin should be sliding on rail through a hydraulic arrangement controlled by the operator and should provide all around view to the operator on all spreader positions.	A sliding cabin is normally used for handling of swap-body containers and to expose the engine for routine maintenance. Swap-body container operations are not prevalent in India. In our unique chassis design, since the engine is mounted in front of the cabin, routine maintenance is easily possible with a fixed cabin. Hence, we request CONCOR to amend this clause to permit fixed cabins. It is also not clear whether or not HVAC system is required. Please clarify.	Provision of tender clause shall prevail.
103	Section –IV of Clause- 7.3	7.3 Transmission should provide with automatic gearshift under proportional control.	Please clarify the specification that ‘the transmission should have a gearshift under proportional control’.	Provision of tender clause shall prevail.
104	Section –IV of Clause- 12.0	12.0 Hydraulics system – The machine shall be equipped with the reliable hydraulic system with suitable hydraulic pumps for control, derricking, telescoping, spreader and steering functions. The hydraulic system should be designed to ensure smooth and consistent actuators movement, high operational speeds with low oil hydraulic pressure and low	Point 5 – The hydraulic cylinder material is specified as C-50. We need alternatively St-55, which is commonly used for hydraulic cylinder barrel. Would CONCOR allow St-55 material as well?	Provision of tender clause shall prevail.

		<p>oil temperature. The machine hydraulics should be laid as per ISO:4401/4400 or DIN 24346/24340 or CETOP-3 or equivalent standard. The system should have feature of load sensing and overload protection. The hydraulic system should be fitted with glycerin filled pressure gauge or latest systems of pressure transducers. The make of various hydraulic system components should be as indicated in Schedule-II. The other salient features of hydraulic system would be as under:-</p> <table><tr><td>5</td><td>Hydraulic cylinder</td><td><p>a) Made of high-grade single piece pipe/forging alloy steel such as C-50 or equivalent EN grade.</p><p>b) Inner surfaced of cylinder honed/super finished with a Ra value of 0.1 – 0.40 micron</p><p>c) Ovality and cylindricity should be within 40 - 50 micron</p><p>d) Cylinder to be tested as per ISO 10100.</p></td></tr></table>	5	Hydraulic cylinder	<p>a) Made of high-grade single piece pipe/forging alloy steel such as C-50 or equivalent EN grade.</p> <p>b) Inner surfaced of cylinder honed/super finished with a Ra value of 0.1 – 0.40 micron</p> <p>c) Ovality and cylindricity should be within 40 - 50 micron</p> <p>d) Cylinder to be tested as per ISO 10100.</p>		
5	Hydraulic cylinder	<p>a) Made of high-grade single piece pipe/forging alloy steel such as C-50 or equivalent EN grade.</p> <p>b) Inner surfaced of cylinder honed/super finished with a Ra value of 0.1 – 0.40 micron</p> <p>c) Ovality and cylindricity should be within 40 - 50 micron</p> <p>d) Cylinder to be tested as per ISO 10100.</p>					
105	Section-IV of Clause- 12.0	12.0 Hydraulics system – The machine shall be equipped with the reliable hydraulic system with suitable hydraulic pumps for control, derricking, telescoping, spreader and steering functions. The hydraulic system should be designed to ensure smooth and consistent actuators movement, high	Point 6 – The material specified is C-50, which is a high-carbon steel and normally through-hardened. But, the specification calls for surface-hardening. This normally	Provision of tender clause shall prevail.			

		<p>operational speeds with low oil hydraulic pressure and low oil temperature. The machine hydraulics should be laid as per ISO:4401/4400 or DIN 24346/24340 or CETOP-3 or equivalent standard. The system should have feature of load sensing and overload protection. The hydraulic system should be fitted with glycerin filled pressure gauge or latest systems of pressure transducers. The make of various hydraulic system components should be as indicated in Schedule-II. The other salient features of hydraulic system would be as under:-</p> <table><tr><td>6</td><td>Hydraulic piston rod</td><td><p>a) Made of high-grade single piece forging alloy steel such as C-50 or equivalent EN grade.</p><p>b) Heat-treated to have surface hardness of 58 +/- 4 HRC.</p><p>c) Surface finish of the piston – 0.1 – 0.2 micron.</p><p>d) Ovality and cylindricity within 40 micron.</p></td></tr></table>	6	Hydraulic piston rod	<p>a) Made of high-grade single piece forging alloy steel such as C-50 or equivalent EN grade.</p> <p>b) Heat-treated to have surface hardness of 58 +/- 4 HRC.</p> <p>c) Surface finish of the piston – 0.1 – 0.2 micron.</p> <p>d) Ovality and cylindricity within 40 micron.</p>	<p>needs a case-carburising steel. CONCOR may kindly confirm whether heat treatment is required for boom lift cylinder and extension cylinder rods due to the excessive length involved. Choice of steel of case-hardening type may also be offered.</p>	
6	Hydraulic piston rod	<p>a) Made of high-grade single piece forging alloy steel such as C-50 or equivalent EN grade.</p> <p>b) Heat-treated to have surface hardness of 58 +/- 4 HRC.</p> <p>c) Surface finish of the piston – 0.1 – 0.2 micron.</p> <p>d) Ovality and cylindricity within 40 micron.</p>					
106	Section-IV of Clause- 14.6	14.6 Five laptops alongwith required connectors with requisite software/tools for downloading data from machine of various sub assemblies and fault diagnostics	Please clarify if five laptops are required in total or per Reachstacker.	<p>Total 5 nos of Laptops are required. Hence,</p> <p>Provision of clause shall prevail.</p>			
107	Section-IV of Clause- 18.3	18.3 Overload Test – Capability to lift a minimum of 25% over the specified maximum load of the Reach stacker (i.e.	Since we are an MSE, with technical limitations to provide	Provision of clause shall prevail.			

		<p>56.25 Tonnes) at manufacturer's premises under static condition. The load test is to be carried out as per ISO 10525 or equivalent international standard.</p> <p>The overload under dynamic conditions would be 10% of the specified maximum load (49.5 T) of the reach stackers.</p>			<p>for such an overload test with 56.25 tonne load (static overload) / 49.5 tonne load (dynamic) at our premises, can CONCOR permit a computer simulation test?</p>	
108	Section-IV of Clause-18.5/18.7	<p>18.5 Travel speed – Loaded/empty conformance as specified in Para 1.2.5 & 1.2.6 of Schedule-1.</p> <p>Cycle time: The cycle time of less than or equal to 85 seconds will be permissible as indicate in SN 1.6 of schedule-1</p> <p>18.6 Endurance test – Cycle testing for 24 (Twenty Four) hours (with 20/40 feet loaded containers) as per Annexure 12. This test should also cover all the functional tests, safety checks, tests for spreaders etc.</p> <p>18.7 Brake performance test-Brake Performance Test to be carried out as per ISO 6292:2008.</p>			<p>Since we are an MSE, space constraints will not permit a practical travel speed test on our premises. Alternatively, will CONCOR accept detailed theoretical calculations for travel speeds in laden and unladen conditions vetted by a chartered engineer?</p>	Provision of clause shall prevail.
109	Schedule II of Point 12	12	HYDRAULIC OIL COOLER (AIR COOLED)	RITTAL/EMMEGI/WERNER FINLAY / AKG GERMANY / STANDARD RADIATOR /OIL TECH /PARKER/Ymer/OLAER	<p>Would CONCOR kindly include Italian-make Bondioli & Pavesi brand of oil cooler, which is very a popular oil cooler for material handling equipment?</p>	Provision of tender clause shall prevail.
110	Schedule II of Point 16	16	JOYSTICK CONTROL	REXROTH, Kiepe (Germany), Penny Giles (UK), Monsun Tison (Sweden), GESSMAN, DANFOSS, CALADA/ ELOBAU, HYDRECO, DAVID BROWN, WALVOIL,CONFIRMING TO CE / EN STANDARDS	<p>Please include Parker make as well, as the joystick is custom-matched with the Parker control valves' solenoid controls.</p>	Provision of tender clause shall prevail.

111	Schedule of Requirements Section – V		1st lot of 03 nos. of RST machine	D + 150	<p>As the Schedule of Requirements was discussed, one other participant brought up the difficulty in adhering to a deadline of D + 150 days for the 1st lot of 3 nos. of RSTs, citing the reason as lead-time constraints for imported aggregates.</p> <p>In the course of the past week, we have also noted that the supply of material within the stipulated deadline may be extremely difficult for the same reason.</p> <p>As such, we would also like to endorse the suggestion that the deadline for the delivery of the 1st lot of 3 nos. be modified to D + 240 days and to stagger the deliveries of subsequent lots by 30 days (as originally stipulated).</p>	Provision of clause will prevail.
			2nd lot of 03 nos. of RST machine	D + 180		
			3rd lot of 03 nos. of RST machine	D + 210		
			4th lot of 03 nos. of RST machine	D + 240		
			5th lot of 03 nos. of RST machine	D + 270		
			6th lot of 03 nos. of RST machine	D + 300		
			7th lot of 03 nos. of RST machine	D + 330		
			8th lot of 03 nos. of RST machine	D + 360		
			9th lot of 03 nos. of RST machine	D + 390		
			10th lot of 03 nos. of RST machine	D+420		
			11th lot of 03 nos. of RST machine	D+450		
			12th lot of 02 nos. of RST machine	D+480		