

MUMBAI METRO RAIL CORPORATION LIMITED (MMRC)

(Joint Venture of Govt. of India and Govt. of Maharashtra)

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Bandra (East), Mumbai 400051, India.

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Invitation for Bids for "Design, Manufacture, Supply, Installation, Testing and Commissioning of Rescue Vehicle (Rail-cum-Road Vehicle with Re-Railing & Rescue Equipment) for Project Mumbai Metro Line-3

Date: [17th Oct 2019]

Loan Agreement Number: [ID-P 268] IFB Number: [MM3-CBS-DEQ-9-04]

Addendum No. 1

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
1	Part 1, Bidding Procedure, Section II Bid Data Sheet, 21.1	Replace The Bid Security amount shall be of INR 10,00,000/- (Indian Rupees Ten Lakhs only) or USD 14300/- (US Dollars Fourteen thousand three hundred only) With The Bid Security amount shall be of INR 10,00,000/- (Indian Rupees Ten Lakhs only) or USD 14300/- (US Dollars Fourteen thousand three hundred only) or EURO 13,000/- (Euro Thirteen Thousand only)
2	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.1 (d)	Replace (d) Provisions for Installation of Mobile Train Radio Equipment on board shall be planned by the contractor in interface with STPT (Signalling & Telecom) contractor. This Equipment will be operated at 110 V, the provision of which shall be provided by contractor. With (d) Provision for facilities for Installation of Mobile Train Radio Equipment on board shall be planned by the Contractor in interface with STPT (Signaling & Telecom) Contractor. The Equipment Contractor shall plan for provision of suitable location of Radio Equipment having approx. dimensions (LxHxD) of "485 mm x 135 mm x 330 mm" and provide a power point at 110 V.

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Sr. No.	Bidding Documents Reference and Clause No.	Amendment
3	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.2.2	Replace Transmission: a) Synchromesh reversing transmission equipped with gear box invertor. With Transmission: a) "Synchromesh reversing transmission equipped with gear box invertor or Fully synchronized forward/reverse automatic transmission"
4	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.2.4, Chassis	Replace "(a) Wheel-base approx. 3600 to 3800 mm" With "(a) Wheel-base approx. 3600 to 4200 mm"
5	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.2.10	Replace Accessories: h) Engine number stamped into crankshaft housing, With Accessories: h) Engine number stamped as per the Vehicle Registration requirements of RTO Authorities in India.
6	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.2.15,	Replace "Superstructure a) Outer Dimensions: Length 2800 +/-200 mm" With "Superstructure a) Outer Dimensions: Length 2800 +/-200 mm excluding Personnel Compartment & 4000+/-200 including Personnel compartment"

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
7	Part 2, Employer's Requirements, Section VI-B, Technical Specifications Clause 3.3	Replace 3.3 Specific Requirements of Re-railing and Rescue Equipment: With 3.3 Specific Requirements of Re-railing and Rescue Equipment as given in Appendix A of Section VI-B (enclosed as attachment no 1 with this Addendum No 1).
8	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.1 (a)	Replace "(a) Portable Petrol/Diesel engine about 5.0 kW, two stages, all hydraulic piston pumps capable of generating 300 -550 kg/cm2 pressure with pressure bypass and maximum pressure valve shall be provided. Bypass valve should switch to idle position when jacks are not in operation." With "a) Portable Petrol engine complying with BS IV or higher standard as mandated by Government of India, about 5.0 kW, two stages, all hydraulic piston pumps capable of generating 300 - 550 kg/cm2 pressure with pressure bypass and maximum pressure valve shall be provided. Bypass valve should switch to idle position when jacks are not in operation."
9	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.1, (d)	Replace "(d) Power unit shall have telescopic extendable carrying handles for easy transportation even in rough areas." With "(d) Power unit shall have carrying handles to facilitate ease of storage and transportation, even in rough areas."
10	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.3, (d)	Replace Clause 3.3.3 (d) "Control valves shall be covered with a casing to prevent in-gress of dust, etc. from pump unit to get into the hydraulic system during lifting, lowering and traversing operation." With Clause 3.3.3 (d) Deleted



Sr.	Bidding Documents	Amendment
No.	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.18	Replace "(a) Airbags of following size and capacity shall be supplied: i. Size (Approx.): 600 x 650 - 650 x 0 mm, Lifting capacity: 270 - 320kN, Lifting height: 350 mm (b) Air bag of square/diamond shape sizes as stated above, or equivalent capacity circular shape air bags are acceptable. With "(a) Airbags of following size and capacity shall be supplied: i. Size (Approx.): 600 x 650 - 650 x 650 mm, Lifting capacity: 270 - 320 kN, Lifting height (Approx.): 350 mm
	≌	(b) Air bag of square/diamond/rectangular shape sizes as stated above, or equivalent capacity circular shape air bags are acceptable.
12	Part 1, Bidding Procedure, Section II, Bid Data Sheet, ITB 24.1	Replace "The deadline for Bid submission is: Date: 24/10/2019 Time: 3:00 PM" With "The deadline for Bid submission is: Date: 14/11/2019 (Thursday) Time: 3:00 PM

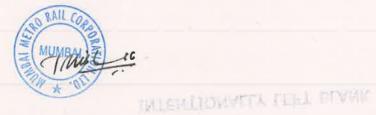


		Replace	0.
		"The Technical Bid opening shall take place at:	
		Date: 24/10/2019	91
	Part 1, Bidding Procedure,	Time: 3.30 PM"	-
13	Section II, Bid Data Sheet,		
	ITB 27.1	With	
		"The Technical Bid opening shall take place at:	
		Date: 14/11/2019 (Thursday)	
		Time: 3:30 PM"	

Place: Mumbai

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Date: 17th Oct 2019



Sd/-(Smt. Ashwini Bhide, IAS) Managing Director, MMRC INTENTIONALLY LEFT BLANK

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Contract: MM3-CBS-DEQ-9-04 Part II – Employers Requirement Section VI-B – Technical Specification

Appendix A to Section VI-B

Details of Quantities for Re-Railing & Rescue Equipment

	Sr.No.	Description of Item	Unit	Otv.
Auxiliary hand pump Control console or Central Control Panel High pressure hose 10 m long with Quick connection coupling High pressure hose 10 m long with Quick connection coupling Low pressure hose 10 m long with Quick connection coupling Low pressure hose 10 m long with Quick connection coupling Telescopic Jack with base plate, 60/30T capacity, maximum closed height 460 mm, minimum stoke 500 mm Telescopic Jack with base plate, 60/30T capacity, maximum closed height 575 mm, minimum stoke 185 mm Displacing / Duo Traversing Jack, minimum stroke 300 mm Re-railing bridge 2.20 m long, 140 mm height Re-rail	1	Power Pack	No.	7
Control console or Central Control Panel High pressure hose 10 m long with Quick connection coupling Littles pressure hose 10 m long with Quick connection coupling Littles by the state of the connection coupling No. Telescopic Jack with base plate, 60/30T capacity, maximum closed height 460 mm, minimum stoke 185 mm Littles by Duo Traversing Jacks, minimum stoke 300 mm Re-railing bridge 2.20 m long, 140mm height Re-railing bridge 2.20 m long, 140mm Re-railing br	2	Auxiliary hand pump	No.	
High pressure hose 10 m long with Quick connection coupling Low pressure hose 10 m long with Quick connection coupling Telescopic Jack with base plate, 60/30T capacity, maximum closed height 460 Telescopic Jack with base plate, 60/30T capacity, maximum closed height 450 Telescopic Jack with base plate, 60/30T capacity, maximum closed height 450 Maximum closed height 575 mm, minimum stoke 300 mm Re-railing bridge 2.20 m long, 140mm height Accessories Accessories Lifting cable ladder Single piston step jack with claw, 35T, 1030 mm height with Accessories Ac	3	Control console or Central Control Panel	No.	2
Compressore hose 10 m long with Quick connection coupling Telescopic Jack with base plate, 60/30T capacity, maximum closed height 460 Telescopic Jack with base plate, 60/30T capacity, maximum closed height 250 Telescopic Jack with base plate, 60/30T capacity, maximum closed height 250 Telescopic Jack with base plate, 60/30T capacity, maximum closed height 250 Mo. Displacing / Duo Traversing Jacks, minimum 12T pushing / 6T pulling capacity, No. Re-ralling bridge 3.30 m long, 140mm height Re-ralling bridge 2.20 m long, 140mm height Re-ralling bridge 3.30 m long, 140mm height Re-ralling bridge 2.20 m long, 140mm height Re-ralling bridge 3.30 m long, 140mm height Re-ralling bridge 2.20 m long, 140mm height Rescuede order consisting of cutter, spreader Anthag Lifting Ht. (Approx) 350mm Airbag Lifting Ht. (Approx) 450mm Rescuedevice consisting of cutter, spreader A Rescuedevice consisting of cutter, spreader Rescuedevice consisting of cutter, with high pressure hoses, pulling chains, etc. Hydraulically operated Cutter, with high pressure hoses, pulling chains, etc. Hydraulically operated Spreader with high pressure hoses, pulling chains, etc. Hydraulically operated Spreader with high pressure hoses, pulling chains, etc. Rescuedevice consisting of cutter, spreader Rescuedevice consisting of cutter, suth high pressure hoses, pulling chains, etc. Hydraulically operated Spreader with high pressure hoses, pulling chains, etc. Rescuedevice consisting of cutter, spreader Rescuedevice consisting of cutter, spreade	4	High pressure hose 10 m long with Quick connection coupling	No.	∞
Telescopic Jack with base plate, 60/30T capacity, maximum closed height 460 mm, minimum stoke 500 mm Telescopic Jack with base plate, 60/30T capacity, maximum closed height 250 mm, minimum stoke 500 mm Telescopic Jack with base plate, 60/30T capacity, maximum closed height 250 mm, minimum stroke 300 mm Displacing / Duo Traversing Jacks, minimum 12T pushing / 6T pulling capacity, No. Re-railing bridge 2.30 m long, 140 mm height Re-railing bridge 2.20 m long, 140 mm height with Accessories Re-railing bridge 2.20 m long, 140 mm height with Accessories Re-railing bridge 2.20 m long, 140 mm height with Accessories Re-railing bridge piston step jack with claw, 35T, 1030 mm height with Accessories Re-railing bridge piston step jack with Claw, 35T, 1030 mm height with Accessories Re-railing bridge piston step jack with Accessories Rescue device 25T capacity Rescue device consisting of cutter, preader Rescue device consisting of cutter, with high pressure hoses, pulling chains, etc. Rescue device bridge pight weight combination tool for cutting 8 spreading with Rescue device bridge bridge pight weight combination tool for cutting 8 spreading with Rescue device bridge	5	Low pressure hose 10 m long with Quick connection coupling	No.	n
Titing cable ladder Mocassories Macessories Macessories Macessories Maling bridge 2.20 m long, 140mm height Mocassories Mocasories Mocasorie	U	Telescopic Jack with base plate, 60/30T capacity, maximum closed height 460		
Interscoptic Lack with base plate, 60/30T capacity, maximum closed height 250 No. Interscoptic Lack with base plate, 60/30T capacity, maximum stoke 185 mm. Displacing / Dur Traversing Lack, minimum stroke 300 mm No. Re-railing bridge 2.20 m long, 140 mm height No. Re-railing bridge 2.20 m long, 140 mm height No. Re-railing bridge 1.10 m long, 140 mm height No. Re-railing bridge 1.10 m long, 140 mm height No. Re-railing bridge 1.10 m long, 140 mm height No. Re-railing bridge 1.10 m long, 140 mm height No. Re-railing bridge 1.10 m long, 140 mm height No. Re-railing bridge 2.20 m long, 140 mm height No. Re-railing bridge 1.10 m long, 140 mm height with Accessories Set Accessories Set No. Holding rope No. Dishackles Single piston step jack with claw, 35T, 1030 mm height with Accessories Set Axle pusher Single piston step jack with claw, 35T, 1030 mm height with Accessories Set Axle pusher Single piston step jack with claw, 35T, 1030 mm height with Accessories Set Axle pusher Single piston step jack with high pressure hoses, pulling chains, etc. No. Airbag Lifting Ht. (Approx) 350 mm Airbag Lifting Ht. (Approx) 350 mm Airbag Lifting Ht. (Approx) 450 mm Hauling device consisting of cutter, spreader Hydraulically operated Spreader with high pressure hoses, pulling chains, etc. No. Hydraulically operated Spreader with high pressure hoses, pulling chains, etc. No. Battery Operated Light weight combination tool for cutting & spreading with Integrated pump No. Portable inflatable emergency light	0	mm, minimum stoke 500 mm	No.	4
Maximum stoke 185 mm		Telescopic Jack with base plate, 60/30T capacity, maximum closed height 250	-	
Displacing / Duo Traversing Jacks, minimum 12T pushing / 6T pulling capacity, Maximum closed height 575 mm, minimum stroke 300 mm Re-railing bridge 3.20 m long, 140mm height Re-railing bridge 1.10 m long, 140mm height Relating bridge 1.10 m long, 140mm height Roller Carriage Rocessories Roller Carriage Rocessories Roller Carriage Roller Carriage Roller Carriage Roller Carriage Roller Carriage Rocessories Roller Carriage Roller Carriage Roller Carriage Roller Carriage Rocessories Roller Carriage Roller Carri	_	mm, minimum stoke 185 mm	No.	7
Maximum closed height 575 mm, minimum stroke 300 mm No.		Displacing / Duo Traversing Jacks, minimum 12T pushing / 6T pulling capacity,		
Re-railing bridge 3.30 m long, 140mm height Re-railing bridge 2.20 m long, 140mm height Re-railing bridge 1.10 m long, 140mm height Bridge coupling Accessories Cacessories Accessories Recessories Distance bars Recessories Accessories Recessories Recessories Accessories Recessories Recessories Accessories Recessories Accessories Recessories Accessories Ac	∞	Maximum closed height 575 mm, minimum stroke 300 mm	No.	7
Re-railing bridge 2.20 m long, 140mm height Re-railing bridge 1.10 m long, 140mm height Re-railing bridge 1.10 m long, 140mm height No.	6	Re-railing bridge 3.30 m long, 140mm height	No.	₩
1. Re-railing bridge 1.10 m long, 140mm height 2. Roller Carriage 3. Bridge coupling 4. Distance bars 5. Tilting jack 20 T Capacity 6. Accessories 1. Lifting cable ladder 1. Lifting cable ladder 1. Lifting cable ladder 2. Set 3. Lifting cable ladder 3. Lifting sable ladder 4. Holding rope 6. D-Shackles 8. Axle pusher 9. Axle pusher 9. Axle pusher 1. Compressor, 230 lpm at10 bar 1. Compressor, 230 lpm at10 bar 1. Compressor, 230 lpm at10 bar 2. Airbag Lifting Ht. (Approx) 350mm 3. Airbag Lifting Ht. (Approx) 450mm 4. Rescue device consisting of cutter, spreader 5. Battery Operated Cutter, with high pressure hoses, pulling chains, etc. 6. Hydraulically operated Spreader with high pressure hoses, pulling chains, etc. 7. Manually operated Light weight combination tool for cutting & spreading with integrated pump 6. Integrated pump 7. Portable inflatable emergency light 8. Roll of the compressor of the compressor of the compressor of the complete inflatable emergency light	10	Re-railing bridge 2.20 m long, 140mm height	No.	Н
2 Roller Carriage 3 Bridge coupling 4 Distance bars 5 Tilting jack 20 T Capacity 6 Accessories 7 Lifting cable ladder 8 Accessories 9 Lifting cable ladder 1 Lifting cable ladder 9 Lifting cable ladder 1 Single piston step jack with claw, 35T, 1030 mm height with Accessories 8 Axle pusher 8 Axle pusher 9 Auxiliary Truck 25 T capacity with Accessories 1 Compressor, 230 lpm at 10 bar 1 Compressor, 230 lpm at 10 bar 2 Airbag Lifting Ht. (Approx) 350mm 3 Airbag Lifting Ht. (Approx) 350mm 4 Rescue device consisting of cutter, spreader 1 Hydraulically operated Cutter, with high pressure hoses, pulling chains, etc. 1 Hydraulically operated Spreader with high pressure hoses, pulling chains, etc. 1 Hydraulically operated Rescue devices 1 Rower Pack for hydraulically operated Rescue devices 2 Battery Operated Rescue devices 3 Battery Operated Rescue devices 4 Manually operated Light weight combination tool for cutting & spreading with integrated pump 6 Integrated pump 7 Portable inflatable emergency light	11	1.10 m long,	No.	-1
8 Bridge coupling 9 Distance bars 1 Distance bars 1 Tilting jack 20 T Capacity 1 Lifting cable ladder 1 Lifting cable ladder 2 Accessories 1 D-Shackles 2 Axle pusher 2 Axwiliary Truck 25 T capacity 3 Hauling device 25T capacity with Accessories 4 Axwiliary Truck 25 T capacity 5 Axwiliary Truck 25 T capacity 6 Axwiliary Truck 25 T capacity 7 Compressor, 230 lpm at10 bar 8 Axibag Lifting Ht. (Approx) 350mm 9 Airbag Lifting Ht. (Approx) 450mm 9 Airbag Lifting Ht. (Approx) 450mm 1 Hydraulically operated Cutter, with high pressure hoses, pulling chains, etc. 1 Hydraulically operated Spreader with high pressure hoses, pulling chains, etc. 2 Battery Operated Rescue devices 3 Battery Operated Rescue devices 4 Battery Operated Rescue devices 5 Battery Operated Light weight combination tool for cutting & spreading with integrated pump 6 Integrated pump 7 Portable inflatable emergency light Portable inflatable emergency light	12		No.	4
1 Distance bars 2 Tilting jack 20 T Capacity 3 Lifting cable ladder 3 Lifting cable ladder 3 Lifting cable ladder 4 De-Shackles 5 Dingle piston step jack with claw, 35T, 1030 mm height with Accessories 6 Axle pusher 7 Single piston step jack with claw, 35T, 1030 mm height with Accessories 8 Axle pusher 8 Axle pusher 9 Auxiliary Truck 25 T capacity Hauling device 25T capacity with Accessories 9 Auxiliary Truck 25 T capacity 1 Compressor, 230 lpm at 10 bar 1 Compressor, 230 lpm at 10 bar 2 Airbag Lifting Ht. (Approx) 350mm 3 Airbag Lifting Ht. (Approx) 350mm 4 Rescue device consisting of cutter, spreader i Hydraulically operated Cutter, with high pressure hoses, pulling chains, etc. No. ii Hydraulically operated Rescue devices 5 Battery Operated Rescue devices 6 Manually operated Light weight combination tool for cutting & spreading with 6 integrated pump 7 Portable inflatable emergency light 8 Integrated pump 9 No. 9	13		Set	2
16. Accessories Set Capacity Processories Set Capacity Profiling jack 20 T Capacity Processories Set Capacity Profiling cable ladder Set Capacity Profiling cable ladder Set Capacity Profiling cable ladder Set Capacity Set Capacity Money Pauling device 25T capacity With Accessories Set Capacity With Manually Derson Set Capacity With high pressure hoses, pulling chains, etc. No. Hydraulically operated Cutter, with high pressure hoses, pulling chains, etc. No. Hydraulically operated Rescue devices Set Manually operated Rescue devices Set Manually operated Light weight combination tool for cutting & spreading with Set Capacity Portable inflatable emergency light	14		Pair	2
1. Lifting cable ladder 2. Lifting cable ladder 3. Lifting cable ladder 3. Holding rope 3. D-Shackles 4. Axle pusher 5. Single piston step jack with claw, 35T, 1030 mm height with Accessories Set 6. Axle pusher 7. Single piston step jack with claw, 35T, 1030 mm height with Accessories Set 7. Single piston step jack with claw, 35T, 1030 mm height with Accessories Set 8. Axle pusher 8. Axle pusher 9. Auxiliary Truck 25 T capacity 1. Compressor, 230 lpm at 10 bar 1. Compressor, 230 lpm at 10 bar 2. Airbag Lifting Ht. (Approx) 350mm 3. Airbag Lifting Ht. (Approx) 450mm 4. Rescue device consisting of cutter, spreader i Hydraulically operated Cutter, with high pressure hoses, pulling chains, etc. ii Hydraulically operated Rescue devices ii Power Pack for hydraulically operated Rescue devices 5. Battery Operated Light weight combination tool for cutting & spreading with 6. Integrated pump 7. Portable inflatable emergency light 7. Portable inflatable emergency light	15	Capacity	Set	2
1) Lifting cable ladder No. 1) Holding rope 1) D-Shackles 2) D-Shackles 3 Axle pusher 8 Axle pusher 9 Auxiliary Truck 25 T capacity 1 Compressor, 230 lpm at10 bar 1 Compressor, 230 lpm at10 bar 2 Airbag Lifting Ht. (Approx) 450mm 3 Airbag Lifting Ht. (Approx) 450mm 4 Rescue device consisting of cutter, spreader i Hydraulically operated Spreader with high pressure hoses, pulling chains, etc. ii Power Pack for hydraulically operated Rescue devices 5 Battery Operated Light weight combination tool for cutting & spreading with 6 integrated pump 7 Portable inflatable emergency light 8 Policy Derivation (1994) 9 Portable inflatable emergency light	16			
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D-Shackles Single piston step jack with claw, 35T, 1030 mm height with Accessories Set Axle pusher No. Auxiliary Truck 25 T capacity Hauling device 25T capacity Compressor, 230 lpm at10 bar Compressor, 230 lpm at10 bar Airbag Lifting Ht. (Approx) 350mm Airbag Lifting Ht. (Approx) 450mm Bescue device consisting of cutter, spreader i Hydraulically operated Cutter, with high pressure hoses, pulling chains, etc. No. ii Hydraulically operated Rescue devices Manually operated Rescue devices Manually operated Light weight combination tool for cutting & spreading with in eintegrated pump Portable inflatable emergency light Portable inflatable emergency light	p)	Holding rope	No.	2
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8Axle pusherNo.9Auxiliary Truck 25 T capacityNo.1Compressor, 230 lpm at10 barNo.2Airbag Lifting Ht. (Approx) 350mmNo.3Airbag Lifting Ht. (Approx) 450mmNo.4Rescue device consisting of cutter, spreaderNo.iHydraulically operated Cutter, with high pressure hoses, pulling chains, etc.No.iiPower Pack for hydraulically operated Rescue devicesNo.iiiPower Pack for hydraulically operated Rescue devicesSetiiiPower pack for hydraulically operated Rescue devicesSetiiiPower Pack for hydraulically operated Rescue devicesSetiiiPower pack for hydraulically weight combination tool for cutting & spreading withNo.iiiPortable inflatable emergency lightNo.	17	step jack with claw, 35T,	Set	2
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Hydraulically operated Spreader with high pressure hoses, pulling chains, etc. No. Power Pack for hydraulically operated Rescue devices Battery Operated Rescue devices Manually operated Light weight combination tool for cutting & spreading with integrated pump Portable inflatable emergency light		Hydraulically operated Cutter, with high pressure hoses, pulling chains, etc.	No.	7
Power Pack for hydraulically operated Rescue devices Battery Operated Rescue devices Manually operated Light weight combination tool for cutting & spreading with integrated pump Portable inflatable emergency light	:=	Hydraulically operated Spreader with high pressure hoses, pulling chains, etc.	No.	
Manually operated Light weight combination tool for cutting & spreading with integrated pump No.	≔	Power Pack for hydraulically operated Rescue devices	No.	1
Manually operated Light weight combination tool for cutting & spreading with integrated pump Portable inflatable emergency light	25	Battery Operated Rescue devices	Set	П
Portable inflatable emergency light	26	Manually operated Light weight combination tool for cutting & spreading with integrated pump	N C	·
	77	Portable inflatable emergency light		1 (



