

S.No	Description
2	Dock leveler
	The dock leveller shall have a platform plate made of structural steel tear plate with a minimum thickness of 7/8mm, yield strength of 250 Mpa, and tensile strength of 410-600 Mpa. The swing lip plate shall be made of structural steel tear plate with a minimum thickness of 10/11 mm, yield strength of 250 Mpa, and tensile strength of 410-600 Mpa. The lip shall be 400 mm long, with an orthoscopic design and tapered edges on both sides. The lip design shall be tapered for easy loading and unloading of goods. The platform shall have 10 longitudinal structural reinforcements for added strength and stability. The base frame shall be in an H-shape design, providing a sturdy foundation for the dock leveller. The finish shall be an 80-micron thick, exterior-grade epoxy-based powder coating in black, similar to RAL 9005.A rubber pad of size - 400mmx200mmx100mm shall be mounted on the lip to provide a soft landing for the trailer Make - Assa Abloy
	The dock leveller shall have a travel range of 350 mm above the dock and 300 mm below the dock, with a safe working gradient of up to 12.5% of the total length (approx. 7°) in accordance with EN 1398. The load capacity shall be 60 kN or 6118 kg dynamic load capacity as per EN 1398:2009 with a test load of 12848 kg. The lip angle shall be $\pm 4^{\circ}$, with a 50 mm lip length.
	The dock leveller shall be equipped with an electro-hydraulic system, featuring a single push-button with press and hold actuation and return, a rotary on/off switch, and a mushroom head emergency stop. The system shall have an IP 55 enclosure and shall be powered by a 1.1 kW, 380 V / 3Ph, 50 Hz motor. The hydraulic system shall consist of a pump and motor, with a hydraulic tank capacity of 6 liters filled with 32-grade anti-pressure oil. The system shall have two platform cylinders or one platform cylinder, and one swing lip cylinder. The hydraulic system shall be completely closed and shall not be affected by dirt, sand, or dust, even under extreme circumstances.
	The dock leveller shall be designed with safety features, including anti-slip tear-drop patterns on the platform and lip, hose burst protection with an integrated safety burst valve, foot protection guards with self-retracting telescopic design, and lip support with 2 nos. The system shall also have a safety stop feature, which should only be used in emergency situations.
	The dock leveller shall be CE certified in accordance with EN 1398:2009 and shall comply with relevant machinery directives and safety standards, including:
	Machinery Directive: 2006/42/EC Low Voltage Directive: 2014/35/EU EMC Directive: 2014/30/EU EN ISO 12100:2010 EN 60204-1:2018 EN 610006-6-2:2005/AC:2005 EN 610006-6-4:2007/A1:2011 EN 1398: 2009
2.1	Rate shall include supply and installation of dock leveler of following size
2.2	Widths available : 2000mm, 2200 mm,2250mm
	Length available: 2500mm,3000 mm
	Rest height : 500 mm, 600mm



S.No	Description
3	Dock shelter
	Providing and fixing of dock shelter. The dock shelter shall have a framework made of extruded aluminum, anodized for durability and corrosion resistance. The bracing arm shall be made of galvanized steel tubes, providing added strength and stability to the dock shelter. The curtain shall be made of 3 mm thick double-layered PVC coated cloth, with a weight of 3800 GSM. The side panel shall be made of 0.4 mm thick, double-side PVC coated tarpaulin fabric with a matte finish in black color. The top shall be slanted to allow for easy water runoff and to prevent water accumulation. The dock shelter shall have a width of 3450 mm and a height of 3400 mm, with a side projection of 670 mm and a top projection of 670 mm, and side curtains of 650 mm and top curtains of 950 mm. The dock shelter shall be available in standard sizes of 3450 mm (W) x 3400 mm (H), The collapsible frame shall move upwards to the building, and the side frames shall be equipped with springs to keep the front part in shape with pressure towards the truck. The base fabric shall be made of PES (Polyethersulfone) with a yarn count of 1100 dtex, a 2/2 twill weave structure, and a P1 weave type.
	Dock shelter has minimum size of 2600 mm (W) x 2400 mm (H) and a maximum size of 3450 mm (W) x 4500 mm (H).
3.1	Rate shall include supply and installation of inflatable dock shelter of size of 3450mm (W) X 3400 mm(H)

