

pressure wash of cold water to remove any remaining surface debris and promote the formation of an oxidized passive layer which is critical to the long life of the stainless steel.

- J. The bar rack shall consist of equally spaced, straight bars that are inclined from the horizontal with the inclination angle.
- K. The bar screen shall be provided with a dead plate extending from the bar rack to the discharge chute. The dead plate shall be made of stainless steel plate
- L. A discharge chute shall be provided that fully encloses the discharge section of the screen. An access hatch with hinges and a handle shall be provided in the chute permitting easy access. The discharge chute shall be mounted to direct screenings into the appropriate receiving container or conveyor. The chute shall have a slope of minimum 45 degrees. The discharge chute shall be made of stainless steel plate.
- M. A frame shall be provided supporting all required loads. Side frames shall be made 316L stainless steel plates.
- N. An electro-mechanical overload protection shall be provided between the drive unit and the shaft to protect all screen components from overload. An inductive proximity switch shall be provided for providing the signal for screen overload.
- O. The drive unit shall be designed for continuous service and intermittent spray water contact.
- P. The bevel gear reducer shall be a totally enclosed unit. Gear reducer shall have ball or roller bearings throughout with all moving parts immersed in oil. Gear reducers which require periodic disassembly of the unit and manual re-greasing of bearings are not acceptable. The nominal input power rating of the gear reducer shall be at least equal to the nominal horsepower of the drive motor. Gear reducer shall be designed and manufactured in compliance with applicable DIN and ISO or equivalent standards. During continuous operation the oil temperature shall not exceed 95 °C.

Control System

- A. The control system shall be provided by the screen supplier/ manufacturer. The screen shall be pre-wired so that the Contractor is only required to make the electrical connections to the control panel and from the control panel to a junction box at the screens.