



Sr. No.	Description	Required	To be declared / confirmed by manufacturer
		Complete electrical system shall be comprising of necessary cable glands, connection for all consumers, control box, indicating lamps for control, selector switches for auto / manual modes, alarms local and for remote mounting, transformers, circuit breakers and fuses for control circuit timers as required etc.	..... ..... ..... ..... ..... ..... ..... ..... ..... .....
7.	Material of construction and Paint	Material of construction and paint as per naval standard and as per standard marine practice.	..... ..... ..... .....
8.	Operating Principle	Operating principle of R.O. Plant shall be based on Disc and Tube type membrane technology. No alternate technology will be acceptable to yard.	..... ..... ..... .....
9.	Instrumentation and Gauges	List of instrumentation and gauges as per requirements and to be specified by the manufacturer along with technical offer.	..... ..... ..... .....
10.	Dimensions, weight and other data for sterilizer to be submitted along with technical offer.	Dimensions: Length:.....mm Width :.....mm Height:.....mm  Weigh:.....Kg	Dimensions: Length:.....mm Width :.....mm Height:.....mm  Weigh:.....Kg
11.	RPM (as applicable) Starting current / no load current / full load current	RPM ..... Starting current .....Amp No load current .....Amp Full load current .....Amp	RPM ..... Starting current:.....Amp No load current:.....Amp Full load current:.....Amp
12.	Equipments, Mountings and fittings	The RO plant should be complete with all pumps filters modules, tanks, valves, pipe work, control panels, flexible connection and other fittings associated with the system. The complete plant will be mounted on AV mounts.  List of equipments, mounting and fittings on R.O. Plant as per requirements to be submitted	..... ..... ..... .....

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		along with technical offer.	
13.	Installation and commissioning assistance.	Installation and commissioning assistance by competent service engineer as per yard schedule to be included in standard scope.	..... ..... ..... .....
14.	Any components not specified here above but found necessary for efficient working of the sterilizer needs to be included in scope of supply and details of the same to be submitted along with technical offer.		..... ..... ..... ..... ..... ..... ..... .....
15.	<u>Drawings and manuals</u>  A) Installation, Operation and maintenance manual (each for complete Purifier arrangement) B) Spare parts catalogues C) Dimensional drawings for all the components and accessories D) Complete electrical system drawings E) Detail description of automation and electrical circuit for the same including interlocks.	A) Four sets  B) Four sets  C) Four sets  D) Four sets  E) Four sets  <b>Note:</b> Submit details separately of Pt. C) to Pt. G) specified above one set each along with the technical offer.	A).....  B).....  C).....  D).....  E).....  ..... ..... .....
16.	Warranty	12 months from the date of commissioning of vessel or 18 months from the date of delivery (whichever is earlier)	..... .....
17.	Delivery	Delivery of Four Ship Sets are required at Shipyard as per following schedule 1 <sup>st</sup> & 2 <sup>nd</sup> shipset :15.03.2008	..... ..... .....

<b>Sr. No.</b>	<b>Description</b>	<b>Required</b>	<b>To be declared / confirmed by manufacturer</b>
		3 <sup>rd</sup> & 4 <sup>th</sup> Shipset: 15.08.2008 5 <sup>th</sup> and 6 <sup>th</sup> Shipset: 15.01.2009  Vendor to propose the lead time of the equipment.	
18.	Training	The Ship's Crew, shore maintenance staff and staff of training school will be trained at the shipyard on the operation and maintenance of hull, machinery and equipment installed onboard. The training schedule will be prepared in consultation with IHQ-MOD (N) well in advance.	





**TOOLS FOR R.O. PLANT AS PER CLASS REQUIREMENT AND MAKER'S STANDARD  
(LIST OF ABOVE TOOLS TO BE SUBMITTED WITH QTY' SPECIFIED)**

<b>No.</b>	<b>Description</b>	<b>Quantity</b>	<b>To be declared / confirmed by manufacturer</b>