



# Indian Register of Shipping

CERTIFICATE NO: 2020TAC010

## TYPE APPROVAL CERTIFICATE

*This is to certify that the product is in accordance with the applicable rules/standards/codes as described below.  
The product is considered to be suitable for use in marine applications and is **included** in the list of approved products.*

MANUFACTURER	SBEM Pvt. Ltd.
MANUFACTURING WORKS	691/A/2, Bibwewadi Industrial Estate, Pune-Satara Road, Pune, Maharashtra, India
REGISTERED OFFICE	691/A/2, Bibwewadi Industrial Estate, Pune-Satara Road, Pune, Maharashtra, India
PRODUCT NAME	TANK GAUGING SYSTEM
MODEL NO. / TRADE NAME	171-TGS
PRODUCT DESCRIPTION	See Annexure I
APPLICABLE RULES/STANDARDS/CODES	IACS UR E10 IRS Rules and Regulations for the Construction and Classification of Steel Ships
CONDITIONS OF APPROVAL	See Annexure I
VALIDITY	The Certificate is valid until 23/02/2025

ISSUE DATE: 24/02/2020

PLACE: MUMBAI

  
Premjit Panigrahi  
Sr. Principal Surveyor

This Certificate is issued upon the following terms and conditions as laid down in the Society's Regulations:-  
Whilst Indian Register of Shipping, a Classification Society, along with its subsidiaries and associates (hereinafter referred to as the Society) and its Board/Committees use their best endeavors to ensure that the functions of the Society are properly carried out, in providing services, information or advice neither the Society nor any of its servants or agents warrants the accuracy of any information or advice supplied. Except as set out herein neither the Society nor any of its servants or agents (on behalf of each of whom the Society has agreed this clause) shall be liable for any loss damage or expense whatever sustained by any person due to any act or omission or error of whatsoever nature and however caused of the Society, its servants or agents or due to any inaccuracy of whatsoever nature and howsoever caused in any information or advice given in any way whatsoever by or on behalf of the Society, even if held to amount to a breach of warranty. Nevertheless, if any person uses services of the Society, or relies on any information or advice given by or on behalf of the Society and suffers loss damage or expenses thereby which is proved to have been due to any negligent act omission or error of the Society, its servants or agents or any negligent inaccuracy in information or advice given by or on behalf of the Society then the Society will pay compensation to such person for his proved loss up to but not exceeding the amount of the fee charged by the Society for that particular service, information or advice.  
Any notice of claim for loss, damage or expense, as referred to above, shall be made in writing to the Society's Head Office within six months of the date when the service, information or advice was first provided, failing which all the rights to any such claim shall be forfeited and the Society shall be relieved and discharged from all liabilities.

**ANNEXURE I**

(TO CERTIFICATE NO. 2020TAC010 DATED 24/02/2020)

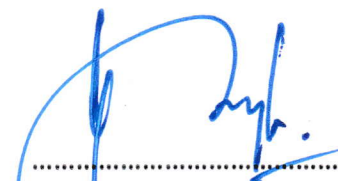
**PRODUCT DETAILS**

1. Our approval covers Tank Gauging system consisting of
  - a. SBEM make Hydrostatic level transmitter model 171-HLT (4-20mA output)
  - b. SBEM make Zener Barrier model 171-ZBI and
  - c. SBEM make Hydrostatic tank level indicator model 171-HTI.

**CONDITIONS OF APPROVAL**

1. The manufacturing unit is to maintain valid ISO 9001 certification at all times.
2. Dimensions, materials and components are to conform to the manufacturing plans (As per Drawing numbers GA-171-0303 R01& GA-171-0304-RO1 & GA-171-0305 -R01 indicated).
3. Detailed instructions for installation/ fitting/ operation and maintenance are to be provided.
4. Any revision to the applicable reference standards/codes would necessitate testing and re approval Of the above products.
5. Intrinsically safe Zener diode safety barrier model 171-ZBI is to be placed in an enclosure certified for the Zone of operation, gases encountered and temperature class.
6. Tank Gauging system will require re-approval under following circumstances:
  - i) Any changes to the design parameters or construction.
  - ii) Any changes in the location/address of the manufacturer as stipulated in the certificate without informing IRS in writing.
  - iii) Any alteration being made to the manufacturing facilities and procedure.
7. Project specific plans are to be submitted for IRS approval for each application.



  
Premjith Panigrahi  
Sr. Principal Surveyor