

Our Ref: 14322.LE01.0

13 March 2026

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Dear Liza

THE SHIP INN, LANGSTONE TRANSFORMER NOISE REVIEW

At the planning stage calculations were undertaken to predict the rating level of plant at the closest noise-sensitive receptors and in the closest amenity areas. Compliance with the ratings limits set out in the planning condition for the proposals was based on a notional unit with an upper sound power limit of 59 dBA.

We have received test data for the proposed transformer at the Ship Inn, Langstone (enclosed). The guaranteed sound level is L_w 58 dBA, and the calculated L_w based on laboratory measurements is 48 dBA. The guaranteed sound power level is 1 dB lower than what was assumed at planning stage. **The proposed unit can therefore be considered suitable in terms of noise on the following bases:**

- The guaranteed sound power level is 1 dBA less than what was assumed at planning, and the level assumed at planning resulted in predicted levels at the receptors comfortably within the requirements of planning Condition.
- The guaranteed sound power level represents a contractual maximum, and is 10 dBA louder than the tested sound power level in the laboratory report. The actual operational noise levels are therefore likely to be less than the guaranteed maximum.
- All other calculation parameters remain as per the planning stage report ref 14322.RP01.PNA.2, dated 9 September 2025, including the build-up, orientation and free area of the transformer room, the application of maximum tonal penalties to achieve the rating level, and distances to receptors.

We trust the above is clear and of use, however should you have any questions, please do not hesitate to contact the undersigned.

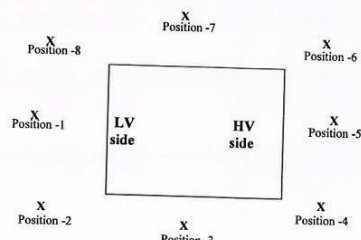
Yours sincerely,
For RBA Acoustics

David Johnston



TOSHIBA	Toshiba Transmission & Distribution Systems (India) Private Limited NOISE LEVEL LABORATORY Works: Rudraram (V), Patancheru (M) Sangareddy (D) -502 329 Telangana, India. Ph: 08455-692298, 692267 Fax: 08455-692245	 NABL Cert.No.TC-7827
NOISE LEVEL TEST REPORT		
		Date: 05th March 2021
ULR Number	: ULR-TC782721500000040F	
Test Report Number	: NOISE 2103003R	
Discipline & Product Group	: Electrical Testing & Inductors and Transformers	
Name & Address of the Customer	: M/s.UK POWER NETWORKS (OPERATIONS) LTD.,UNITED KINGDOM.	
Name & Address of the Manufacturer	: M/s.Toshiba Transmission & Distribution Systems (India) Private Limited., Rudraram(v), Patancheru (M),Sangareddy (D),Telangana, India - 502329	
Particulars of sample tested	: 800 kVA, Three Phase, 11000/433V, 50Hz, CRGO Core, Aluminium Wound Free Breathing Unit Substation Oil filled Radiators Transformer : Specification-EDS 04-6020	
Work Order / Project	: P10702	
Condition of sample on receipt	: New	
Serial number / Job number	: P10702	
Date (s) of test (s)	: 25th February 2021	
Particulars of test Conducted	: Sound Level Measurement Test	
Test in accordance with Standard / Specification	: IEC :60076 Part-10:2016 & TS:35-1 ISSUE 6 2014	
Customer's requirement	: Nil	
Deviations if any	: Nil	
Name of the witnessing person		
Customer representative	: None	
Other than Customer representative	: None	
Documents constituting this report (in Words)		
Number of Sheets	: Three	
Number of drawings	: Two (Drawing Nos: 3 RP 85366 Rev0, 3 OG 80474 Rev2)	
(G.MAHESH KUMAR) Test Engineer		 (M.SUDHAKAR REDDY) Asst.Manager Verified by AUTHORIZED SIGNATORY

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ULR Number	: ULR-TC782721500000040F		
Test Report Number	: NOISE 2103003R		
TRANSFORMER DETAILS			
Rating	: 800 kVA	Frequency (Hz)	: 50Hz
Primary Voltage	: 11000 Volts	Type of Cooling	: ONAN
Secondary Voltage	: 433 Volts	Vector group / Polarity	: Dyn11
Primary Current	: 41.989 Amps	No of Phases	: Three
Secondary Current	: 1066.698 Amps		
Tappings on HV Winding	: +5% to -5% in Steps of 2.5%		
DETAILS OF MEASURING INSTRUMENT		TEST CONDITIONS	
Name of Instrument	: Sound Level Meter	Excitation Voltage (V)	: 433
Make	: Lutron	Frequency (Hz)	: 50
Type	: SL-4022	Measurement Distance	
Range	: 30 to 130db	From Principle	: 0.3mts
Microphone Type	: Class-1	Radiating Surface	
Serial No	: I53587	Tap switch Position	: 3
MICROPHONE POSITION FOR NOISE LEVEL MEASUREMENT			
			
Page No : 02 of 05		 Test Engineer Verified by	

The Ship Inn, Langstone
 Laboratory Test Report for Proposed Plant, Pages 1-2 of 5
 Project 14322

Figure 1
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 Not to Scale





Figure 2
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Not to Scale

