Submission No.	291
Organisation Name or Name of Submitter	The Abbey Theatre Amharclann na Mainistreach

Item No.	Section Ref.	clann na M	Observation Statement lainistreach Cover Letter - Re: Railway (Metrolink - Estuary to Charlemont via Du	TII Response blin Airport) Order [2022]
Metrolink. E	stuary through	Swords, E	Oublin Airport, Ballymun, Glasnevin and City Centre to Charlemont, Co. Dublin	T
1	Cover letter - Planning Policy	8	RPO 9.24 Promote and facilitate the role of arts and culture in recognition of its importance to people's identity and the potential for economic development through a unique cultural tourism offering throughout the Region. Cultural and the arts are important elements to the Irish society and Irish economy, generating revenue from local, national and international tourists. The Abbey Theatre is notably the national theatre of Ireland. Thus, the protection of its operations should be facilitated. This is not evidenced within the submitted railway order documentation.	TII recognise the National (and International) importance of the Abbey Theatre and are of the view that a high quality transportation corridor that MetroLink will provide will only serve to enhance this theatre and other nationally important arts and cultural venues in Dublin City Centre. As described in our response to specific observations with regards to noise and vibration below, MetroLink will not cause any significant long term impact on the operation of the Abbey Theatre. There will be potential for a short term impact during the progression of the Tunnel Boring Machine which would last for approximately 2 weeks. TII and their contractors will undertake advanced consultation and stakeholder engagement to provide significant advanced notice for the Abbey Theatre to prepare for the passing of the TBM so that any impacts can be effectively mitigated during this short duration.
2	Cover letter - Dublin City Development Plan 2022- 2028	10	The relevant development plan against which any planning application at our clients' premises would be assessed against is the Dublin City Development Plan 2022-2028. This plan is set to come into effect in December 2022, replacing the current Dublin City Development Plan 2022-2028.	Please refer to Response (7) below.
3	Cover letter - Concerns on Submitted Application	12	As stated, our clients are generally supportive of necessary improved public transport infrastructure within Dublin City and County, as well as the improvement of national connectivity. However, the submitted railway order application causes some concerns, primarily relating to the lack of communication by the Applicant with the Abbey Theatre and possible adverse impacts arising from the proposal on the operations of the theatre.	TII are appreciative of Abbey Theatre's support for the Project. Since the receipt of this submission, TII have engaged with the Abbey Theatre to discuss mitigation measures that will be necessary in respect of the effect of ground borne noise which will occur during the passage of the TBM. This will occur over a period of two weeks. Mitigation measures will be put in place to ensure operational noise and vibration impacts are kept within and beneath stated thresholds contained in the EIAR.

Submission I	No.		291	
	Name or Nam	ne of	The Abbey Theatre Amharclann na Mainistreach	
Item No.	Section Ref.	Page No.	Observation Statement	TII Response
			lainistreach Cover Letter - Re: Railway (Metrolink - Estuary to Charlemont via Du Dublin Airport, Ballymun, Glasnevin and City Centre to Charlemont, Co. Dublin	blin Airport) Order [2022]
4	Cover letter - Concerns on Submitted Application	12	The Abbey Theatre is located along the red Luas line. This light railway system has extremely high frequency during peak hours as well as having regular frequency trams at non-peak times of the day. This proximity currently results in disturbance to the Abbey Theatre. Our clients seek reassurance that Metrolink will not result in any additional disturbance of performances are rehearsals space. The purpose of the rehearsal is to prepare the performance space, allowing for familiarity with the surrounds. This could be adversely impacted by any adjoining vibrations, noise and/or disturbance which may result from the operation of Metrolink or the tunnelling works related to same.	Regarding the possible disturbance to the Abbey Theatre during the construction and operational phases, the only possible disturbance will occur due to noise and vibration arising from (i) the passage of the Tunnel Boring Machine (TBM) and (ii) from train movements during the operational phase. Construction Phase EIAR Chapter 14, Ground-borne Noise and Vibration, section 14.4.1.8 AZ4 Groundborne Noise during Construction, Table 14.29, presents the predicted noise levels during TBM Passage compared to the threshold values for noise for various sensitive receptors (including Abbey Theatre), Table 14.29 shows the LAmax's for TBM Passage at Abbey Theatre has a value of 45 dB while the Threshold Level for this building is 30 dB, resulting in a significant impact on the buildings operation during TBM passage. It is important to note that the TBM advancement will only potentially effect the Abbey Theatre for a short period of time (up to 2 weeks). As noted above, unfortunately, there are no effective methods available to reduce groundborne noise or vibration from the TBM at source. As a result principal mitigation measure to minimise effects on the Abbey Theatre will be advance public consultation and stakeholder engagement to reduce the significance of groundborne noise effects during constructions so that the Abbey Theatre is prepared for the passage of the BM and resultant elevated noise levels. IT will all accept and consider applications for additional measures on a case-by case basis, in accordance with its Noise and Vibration Mitigation Policy (see Appendix Al4.6 of the ELRA). Avith regards to Groundborne Vibration, EIAR Chapter 14, section 14.4.1.9 AZ4, Groundborne Vibration during Construction, Table 14.32 shows the POV (Vibration Dose Value is a parameter that combines the magnitude of vibration and the time for which it occurs) for TBM Passage compared to the threshold values for vibration for various sensitive receptors (including Abbey Theatre). Table 14.32 shows the POV (Vibration Dose Value is a para

Submission	No.		291		
Organisatior Submitter	n Name or Nam	ne of	The Abbey Theatre Amharclann na Mainistreach		
Item No.	Section Ref.	Page No.	Observation Statement	TII Response	
	The Abbey Theatre Amharclann na Mainistreach Cover Letter - Re: Railway (Metrolink - Estuary to Charlemont via Dublin Airport) Order [2022] Metrolink. Estuary through Swords, Dublin Airport, Ballymun, Glasnevin and City Centre to Charlemont, Co. Dublin				
5	Cover letter - Concerns on Submitted Application	12	The Applicant has not directly consulted with the Abbey Theatre group, nor have they submitted adequate information, models or details to demonstrate that rehearsals or performances will not be impacted upon. Such relevant information includes possible additional contaminants from electromagnetic interference to instruments, amplifiers, sound loops, broadcast units etc	Till consider that they have provided adequate information, models and details to demonstrate the impacts on the Abbey Theatre. This is set out in a detailed EIAR, that identifies, describes, assesses and mitigates, where necessary, the environmental impacts resulting from the construction and operation of MetroLink. Till would also draw the Abbey Theatre's attention to response (4) above, and Till's further response Delow with regards to assessed electromagnetic interference (EIMI) impacts that summarises why the Abbey Theatre is not expected to be impacted by EMI. Ill would also note that for identified stakeholders, including the Abbey Theatre, information requests were made to complete questionnaires listing potentially sensitive equipment. Predominantly stakeholders listed standard electrical and electronic items such as phone systems, hard drives etc. These types of equipment are discussed within the EIRA and evaluated to not be at risk interference from electromagnetic radiation (DC, AC or RF fields) from the proposed Project. No feedback was received from the Abbby Theatre in the Abbey Theatre is not expected to possess spiral equipment. Professional audio visual equipment is more vulnerable to EMI as a result of operating in the audio acoustic range and as a result undergoes specific immunity lesting in that free received results are such as a spiral part of the audio acoustic range and as a result undergoes specific immunity lesting in that free received results are such as a spiral part of the Abbey Theatre in the Curposal Abbey Theatre and the National Concert Hall. Neither of these issue have been identified as being at risk of interference from the proposed development. EIAR Chapter 12, Electromagnetic Compatibility and Stray Current, section 12,4.2 details the width o	
6	Cover letter - Concerns on Submitted Application	12	Again, a significant concern arises in relation to the construction period of the railway if approved, especially during the tunnelling period which may be highly disruptive and may require changes to performance or rehearsal programmes operating at the Abbey Theatre. There is a lack of information demonstrating how the construction stage, including tunnelling, may affect the structure of the Abbey Theatre and surrounding buildings.	Please refer to Response (4) above.	

Submission	No.		291	
Organisatior Submitter	n Name or Nam	e of	The Abbey Theatre Amharclann na Mainistreach	
Item No.	Section Ref.	Page No.	Observation Statement	TII Response
	Jestion item	i age ivo.	Observation Statement	TH Nesponse
The Abbey T	heatre Amhard	lann na M	ainistreach Cover Letter - Re: Railway (Metrolink - Estuary to Charlemont via Dublin Airport, Ballymun, Glasnevin and City Centre to Charlemont, Co. Dublin	
The Abbey T	heatre Amhard	lann na M	ainistreach Cover Letter - Re: Railway (Metrolink - Estuary to Charlemont via Du	