## Research Article

# Young Builders vs. University of Delhi: A case of maintenance of balance between environment and development in housing development for the megacity of Delhi

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The commentary follows Appeal no. 17/2021 filed by the University of Delhi under Section 16 (h) of the National Green Tribunal Act, 2010, challenging the Environmental Clearance issued on 21.05.2021 by the Ministry of Environment and Forest & Climate Change (MoEF&CC) in favor of Project Proponent (PP) Young Builder Private Limited. The project entails the construction of a group housing with a built-up area of 1,37,879.64 sq.m at 1,3 Cavalry Lane and 4 Chahatra Marg, near Vishwavidyalaya Metro Station, New Delhi. The commentary focuses on the order passed by the National Green Tribunal (NGT), which is a judicial body that has been established under the National Green Tribunal Act 2010 for speedy and effective addressing of cases related to environmental protection and conservation of natural resources, including enforcement of any legal right related to the environment. The EC dated 23.03.2018, which permitted the amendment of the initial EC dated 13.08.2012, was challenged by the applicant in Appeal No. 112/2018 – on the grounds of suppression of material facts, non-consideration of relevant aspects concerning ambient air quality standards, water requirement, environmental concerns, waste management, fire safety standards, the impact of the proposed project on the northern ridge violation of Master Plan. The commentary tries to question the role of official bodies in the issuance of EC when non-factual information is informed to have been submitted by the project proponents. The commentary also intends to analyze the verdict on various fronts stated in the Environmental Impact Assessment (EIA) report and evaluate the stand of the tribunal for the environment and its far-reaching impacts on the development future of Delhi with respect to accommodating housing projects.

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# Introduction

In Appeal no. 17/2021, the University of Delhi filed an Appeal against 11 respondents, including the Ministry of Environment and Forest & Climate Change (MoEF&CC), Delhi Metro Rail Corporation (DMRC), Delhi Development Authority (DDA), Central Pollution Control Board (CPCB), Delhi Pollution Control Committee (DPCC), Chief Conservator of Forests, Delhi Urban Arts Commission (DUAC), Delhi Jal Board (DJB), Ministry of Defence (MoD), Delhi Fire Service and M/s. Young Builders Private Limited (YBPL).

## Location of the site

The Appeal was filed against the alleged wrongful approval of EC to the project proponent for the plot (20,000 sqm/ 2 ha), which is a part of 3.05 hectares of land acquired by Delhi Metro Rail Corporation Limited (DMRC) from the Ministry of Defense under an award in 2001. DMRC is mandated to generate resources through property development on surplus land available after the construction of the metro station. DMRC requested a change in land use from 'Public & Semi-Public' to 'Residential' through Delhi Development Authority vide notification dated 23.09.2005. A Request for Proposal (RFP) was issued by DMRC in 2008 for property development group housing on the stated surplus land of 2.0 hectares through invited bids and conducted an auction on 28.07.2008. The development rights were awarded to the highest bidder that is M/s Young Builders Pvt. Ltd by the DMRC on 13.08.2008.



**Figure 1.** Site location marked in the map of Delhi (Source: Base map from Yamuna River Project (Alday and Gupta, 2018)

The site falls in Zone-C (Civil Lines), as marked in figure 1, comprising the sub-zone Delhi University Area which has several old historic buildings, colleges, and Viceroy's lodges of the colonial period. The project site is connected to the Vishwavidyalaya — Kingsway Camp Road (Mall Road), bus stands, and the yellow line Vishwavidyalaya Metro Station. The site is surrounded by institutional buildings, including Kamala Ridge, Najafgarh Drain, and Yamuna Rivers, as depicted in figure 2.

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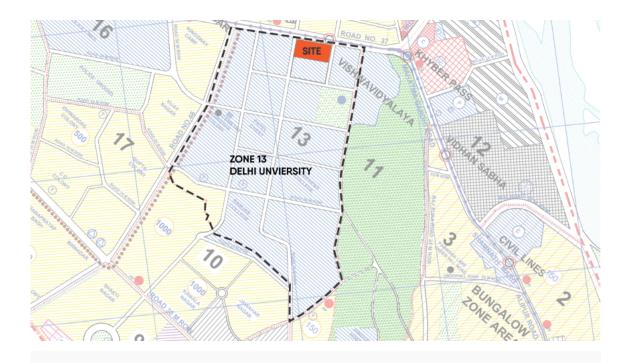


Figure 2. Site location marked in the Zonal map of Delhi (Source: DDA; Marked by the authors)

The zonal map clearly displays that the site falls zone-13, Delhi University but has residential land use as per the notification. The project details of the 2 hectares site are as in table 1.

S.No.	Headings	Specifications
1	Site Area	2 hectares (20,000 Sqm)
2	Permissible FAR	200
3	Total Built up	1,37,879.64 sqm
4	Height of the buildings	145.3 m
5	No. of floors	43
6	No of dwellings	446
7	No. of basements	2
8	Distance from Ridge and Yamuna River	Five hundred meters and 1800 meters resp.

**Table 1.** Project details of the group housing by YBPL (Source: Appeal 17/2021)



Figure 3. Site location marked in the map of site context (Source: Authors using the base map from Google Earth)

## Timeline of the Appeal

As the project's site was highlighted as one of the issues hence, it becomes significant to understand the various events which occurred throughout the timeline of the said project and its site, which covers the case from its change of land use, transfer of land, and multiple environmental clearances to its final verdict as shown in figure 4.

As per the Phase- plan of the yellow metro line Delhi Metro Rail Corporation (DMRC) had kept 30,500 sq. meters of land for parking as Vishwa-Vidyalaya Metro Station was supposed to be the terminal station for the yellow line. But, in 2006, Phase II was envisioned, and the terminal station was extended to Jahangirpuri; thus, the requirement for parking space was reduced, and surplus land was issued for change in land use from 'Public and Semi-Public facility' to 'Group Housing.'

## 13.08.2008- Transferred Land to PP

Out of the 3.05 hectares of land, DMRC transfers 2 hectares land to PP.

#### 13.08.2012- First EC Granted

EC granted to PP by SEIAA with Far:

#### 08.01.2020- Tribunal ordered a JC

27.02.2020- Tribunal decided for an independent Evaluation

10.06.2020 : First EC challenged by DU

10.12.2020- Committee filed its report RIEA

#### 23.09.2005 - Change in Land Use

A gazette notification issued for changing the 'Public and semi-public' land use to residential, approved by the Ministry of Urban Development

#### 21.05.2011- Permission for High Rise

DDA allowed no height restrictions and MPD 2021 for Group Housing as FAR: 200, Ground Coverage: 33%

09.02.2018- Request for amendment of 1st EC.

The project details

23.03.2018- SEIAA granted 2nd EC

Mention new project details like FAR

#### 15.01.2021: Appellant (DU) filed objections

PP also submitted written submissions within the same month, that is, 18.01.2021.

## 06.02.2021- PP applied for fresh EC

This is the third EC where EAC considered and recommended for grant

#### 01.03.2021- PP made detailed presentations

YBPL made two detailed presentations before EAC

## 21.05.2021- 3rd EC was granted

MOEF Challenged the EC

#### 31.05.2022- EC was declared invalid

Appeal by DU was allowed and PP was restricted from any construction activities pursuant to EC in question.

**Figure 4.** Timeline of the project (Source: Authors based on Appeal No. 17/2021)

In August of 2008, 2 hectares of the 3.05 hectares of land owned by DMRC was handed over to PP through a bid. Subsequently, DDA issued a communication stating that norms of residential group housing as given in MPD-2021 shall apply to the site restricting the height factor as per recommendations by the authority to 8 storeys changed by a resolution on 12.05.2011. As per the resolution in 2011, the project proponent was given authority to develop the 2-hectare plot, which was to be considered a separate entity, and to implement the development control norms of Group Housing with no height restrictions.

The first application for EC was submitted by PP on 21.08.2009 to SEIAA (State Environment Impact Assessment Authority) Delhi with a built-up area of 70,265.95 sq.m, the permissible height of the building 117 m, and the total number of dwelling units as 324. SEAC considered the proposal in the meetings held on multiple dates, and approval was provided on 20.07.2012 for the grant of prior EC. In February 2018, PP submitted Form I, IA, and conceptual plan with the request for amendment in the first EC, and the request for the second EC was submitted with an increased new built-up area of 1,17,733.81 sq.m. building height increased to 139.6 m, and the dwelling units were also increased to 410. Within the same year, 2018, SEIAA Delhi allowed the withdrawal of the first EC and granted a fresh EC to the project proponent. In 2021, a new application for EC was submitted, and EC was granted within less than three and a half months, where the proposed built-up increased to 1,37,879.64 sq.m. and dwelling units increased to 446 flats. As shown in Table 2, when compared with the first EC, the third EC disclosed the increment in the built-up area to be almost twice. Delhi University (DU) filed objections to halt the proposed project within the same year. The EC was declared invalid by the National Green Tribunal in 2022 as issues Appealed by the appellant were found to favor the appellant and against PP under the context of false information and lack of application of mind by the authorities SEIAA/ MoEF &CC.

S.No.	Sub Heads	First Environment Clearance	Second Environment Clearance	Third Environment Clearance
1	Date	13.08.2012	23.03.2018	21.05.2021
2	Total Plot Area	20000	20000	20000
3	Cost (in crores)	321	257.28	-
4	Total Built-up Area	70,265.95	1,17,733.81	1,37,879.64
5	No of floors	S+G+35	S+G+37	S+G+41
6	Total Parking Required	922 ECS	854 ECS	
7	Height of the	117	139.6	145.3
8	Total of Dwelling Units	324	410	446

**Table 2.** Comparison of three ECs submitted by Young Builders Pvt. Limited (Source: Data based on Appeal No. 17/2021)

# Issues raised by the applicant

The University of Delhi challenged the first EC dated 13.08.2012 in Appeal No. 112/2018 on grounds such as suppression of material facts, non-consideration of relevant environmental aspects regarding ambient air quality, noise, air pollution, water requirement, and environmental concerns as shown in figure 5.



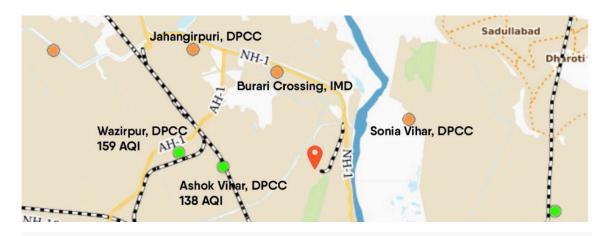
Figure 5. Issues listed by the Appellant, Source: Authors based on the Appeal Np. 17/2021

As per figure 2, the site falls in the sub-zone of Delhi University, where the Master Plan of Delhi 2021 highlights the restriction on the construction of tall buildings. Though the maximum permissible height is not specified in the Masterplan, PP argues that the objection cannot be permitted since it was already decided in WP(C) No. 2743/2012, which was dismissed on 17.12.2019.



Figure 6. Site distance from the ridge, Source: Authors based on the base map by Google Maps

Figure 6 shows that the site is indeed 500 m away from the ridge, and PP argued that there is no legal restriction on developing the project in question. Tribunal highlights the matter of Ashok Tanwar Vs. Union of India W.P. (C) 3339/2011 & CM No. 12417/2011 holds importance for the management and protection of the geological/morphological Ridge as per the Government of NCT of Delhi. However, it is not precisely the Ridge area, and it is part of the geologically extended Ridge area. And therefore, the permission of the Ridge Management Board (RMB) and the Supreme Court through CEC is required before carrying out any construction in such an area.



**Figure 7.** Air Quality at centers close to the site, Source: CPCB on 20.09.2022 (4:00 pm) Burari Crossing, Sonia Vihar, and Jahangirpuri didn't display readings due to insufficient data.

The area's carrying capacity, in particular the Advanced Air Quality (AAQ), which exceeded established national standards, was neither acknowledged nor taken into account. Poor air quality can be observed in centers, as shown in Figure 7. However, the three closest centers fail to show readings due to insufficient data, Ashok Vihar and Wazirpur display readings, which fall in the unhealthy category.

The area in question was not considered a silent zone though the site is close to an education hub, as shown in figure 8. The statement PP responded that there would only be a marginal increase in ambient noise due to traffic movement within the project area. PP also assured that the traffic movement would be limited to the daytime of the construction phase.



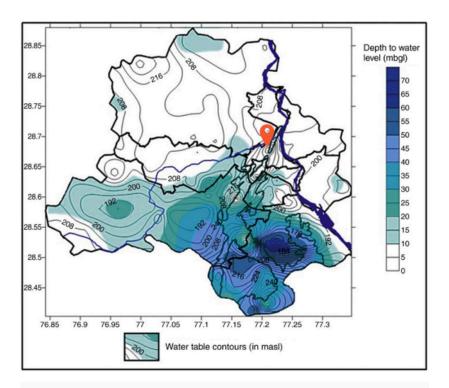
Figure 8. Site context with nearby roads, Source: Authors based on the base map by Google Maps

The traffic analysis report of 2018 was relied upon by the Environmental Assessment Committee (EAC) through a grant of EC that was considered in 2021. The site faces Mall Road and Chhatra Road, which is observed to have high traffic flux, which was not considered in the study, as shown in Figure 9.



Figure 9. Site context with nearby roads, Source: Authors based on the base map by Google Maps

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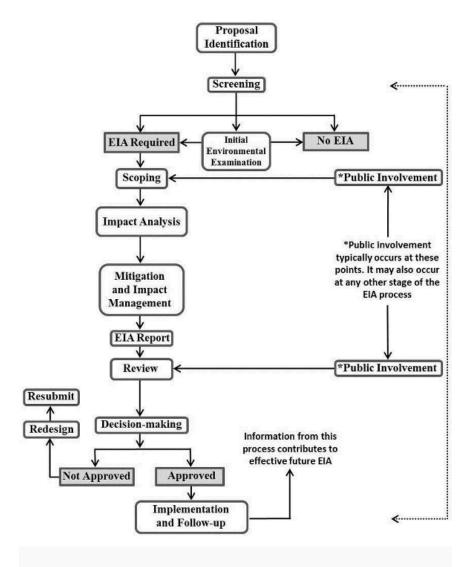
**Figure 10.** The Groundwater Level Contour and Depth to Water Level Map of Delhi with site location. Source: Based on the Central Groundwater Board CGWB dataset. Available from: <a href="http://gis2.nic.in/cgwb/Gemsdata.aspx">http://gis2.nic.in/cgwb/Gemsdata.aspx</a>.

DU claimed that PP did not clarify the use of groundwater concerning the scarcity of groundwater. No study was found on the area's carrying capacity study about available resources as per the direction of the Tribunal. PP responded that they have signed a No Objection Certificate (NOC) and would not use groundwater for their project. The site falls in Groundwater Discharge Zone, which PP failed to disclose in Form I.

# **Case Analysis**

## Brief History of Environmental Impact Assessment (EIA)

In India, the concept of environmental impact assessment was first used in river valley projects in 1978. Later, other developmental parts were included in the EIA legislation. EIA is covered by the Environment (Protection) Act of 1986's Notification on Environmental Impact Assessment (EIA) of Developmental Projects of 1994.



**Figure 11.** EIA Process Flowchart, Source: United Nations Environment Program (UNEP), 2002

The National Green Tribunal was established to implement the international obligations undertaken by India as a signatory at the United Nations Conference on Environment and Development in Rio de Janeiro in 1992. More than 30 different project types currently require EIA, and these projects only receive Environmental Clearance (EC) if the EIA standards have been met. The stages of project assessment are displayed in the chart in Figure 11. EIA is a participatory, integrated, consultative, and transparent mechanism to anticipate the environmental and social implications of a developmental project.

Along with the six main issues, DU also highlighted other issues which the tribunal carefully assessed to evaluate the approval of EC by the MoEF. Table 3 focuses on the pointwise issues highlighted in the first Appeal, the response by the project proponent, and the final verdict of the tribunal based on their study.

S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict	Remarks
1	Term of References (ToR) was not provided as per EIA 2006 as amended by notification dated 17.02.2020	The built-up area of the project is 1,37,879.64 sqm. And falls under item 8(a) of the schedule to EIA 2006 under Category B2.	-	As per the notification dated 17.02.2020 EIA 2006, the projects under Category A or B1 require preparation of ToR. However, as the project falls under category B2, it doesn't require EIA and can directly be taken for appraisal.
2	EAC wrongly made the observation that Appeal no. 112/2018 was dismissed.	A complete reading of the EC shows that it refers to the dismissal of the Appeal as infructuous and not on merits.	The procedure, along with the result, is tainted by its very nature when the SEAC does not provide a compelling justification for its recommendation of the grant of EC.	-
3	Suggestions made by the independent Committee constituted by the Tribunal vide order dated 27.02.2020 of creating a limitation on the basement to one due to the impact on the natural flow of groundwater not being considered.	The suggestion was never put forwhenwhile PP presented before the committee.	The plot falls in the Groundwater Discharge Zone, which was not disclosed in form I. SEAC/MoEF showed a total non-application of mind and a mechanical exercise of the grant of EC.	Being on a groundwater discharge zone, any dewatering for a particular duration would directly impact the hydrology surrounding the adjacent sites, which cannot be overlooked.
4	Office Memorandum dated 23.05.2019 issued by MoEF&CC (IA Division)	The Tribunal cannot examine issues unrelated to the	Tribunal doesn't have the jurisdiction to look into land use; hence, the issue	The sub-zone 13, within which the site falls, is a draft yet to be approved.

S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict	Remarks
	under Tribunal's order	environment since	of restriction of height and	The court relied on its
	passed in OA 176/2015 was	NGT is not a plenary	permissible FAR in the	judgment in Adil Singh
	not considered.	body with inherent	light of MPD-2021 as	vs. UoI and Ors., WP(C)
		powers to address	permitted by DDA is	No. 2948 of 2007, which
		concerns of residuary	neither being examined	stated that a portion of
		character.	nor can be discussed.	the acquired land, if left
				unused after achieving
				the public purpose, can
				be used for another
				purpose than it was
				acquired.
			Tower-specific analysis	
			conducted in 2018 couldn't	
		Delhi Fire Service has	have been relevant for the	
_	The fire safety aspect was	accorded fresh	project as the built-up area	
5	not adequately considered.	approval for the project	was almost 25 percent	
		on 12.07.2021.	higher than the proposal	
			submitted on 15.02.2021,	
			much more than in 2018.	
6	The particular capacity of	Invalid as the project is	After studying factors such	There have been many
	the fire department to deal	not located inside a	as fire incidences,	instances of high-rise
	with fire incidents in	congested residential	environmental dimension,	buildings with adequate
	high-rise buildings in the	colony.	energy and carbon	fire safety measures.
	light of observations made		emission, bird collision,	This issue can be
	by Delhi High Court in the		and waste management,	mitigated by using
	order dated 20.01.2016 W.P.		which directly impact the	reliable fire safety
	No. 1476/2014, Vikas Sign		sustainable development	measures.
	vs. Lt. Governor & Others		and precautionary	
			principles of the Right to	
			Life under section 20 of	
			NGT Act, 2010, such	
1				

S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict	Remarks
			unsustainable	
			megaprojects cannot	
			permit any further load.	
				The area under study
				falls in Zone-IV
				(according to the Indian
		The site falls in a high		Standard Seismic Zoning
	K.S. Rao's report about the	seismic risk zone, zone		Map), a high seismic
7	area's seismicity was not	IV. Accordingly,		risk. Therefore, a
,	given due attention.	guidelines for safety		suitable design will be
	given due detention.	have been provided by		made to mitigate the
		NBC and IS codes.		seismic impacts as per
				the IS 1893: 2016, IS-
				1670:2017, and IS-
				456:2002.
			From the points	
			highlighted, it can be	
			concluded that the	
			project's requirements	False information affects
		PP has denied the	increased drastically from	the assessment of the
	Several material facts	objection, and the	the first EC to its final EC	project and, ultimately,
8	were concealed/withheld/	ground has been taken	submitted in February	its impact on the
	falsely stated by PP.	with vague	2021. Hence, prior studies	environment. Hence,
		allegations.	wouldn't have sufficient	such acts cannot be
			data for all the ECs as the	overlooked.
			duration spanned from	
			21.08.2009 to February	
			2018 and 06.02.2021.	
9	Dissent of two members	Once the appraisal	-	As per EIA notification
	of SEAC who earlier	reports have been		2006, the verdict should
	apprised EC had dated	considered, it cannot		be unanimous in case a

S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict	Remarks
	23.03.2018 has not been considered.	be said that dissenting opinions expressed by minority members should have been paid more attention to or discussed in detail.		majority takes a decision; the details of views, for and against it, shall be clearly recorded in the minutes and copy thereof sent to MoEF.
10	Impact on population density not given due attention.	The project provides resources and space for up to 2302 persons in compliance with NBC norms. Furthermore, it is essential to remember that under current nuclear family circumstances, the number of people living in the household would be lower than the predicted maximum.	The Timarpur ward is expected to see a 14% increase in population density or 6777 people per square kilometer. It is statistically significant and likely to result in degradation in the present conditions.	The poor carrying capacity of the city requires proper research and its impact on the environment to identify measures to mitigate them.
11	Consent to establish was not obtained.	The objection was raised and relied on a Delhi High Court judgment dated 23.01.2012, where residential apartment/unit structures would be exempt from the Water Act.	There was no irregularity found in the auction conducted by DMRC. PP failed to disclose construction in Form I on about 100 sq.m of the land in question, which is stated to be a temporary service structure and liable to be removed after completion of the project.	As per EIA Notification, 2006, the commencement of construction work, either wholly or phase- wise, cannot be undertaken without prior Environmental Clearance. But it should be noted that EC is not the same as consent to

S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict	Remarks
		For the air act and residential complexes, no permission is required to either establish or operate.		establish and operate. It is only granted under Water and Air Act.
12	No heed was given to the privacy of women students residing in adjacent areas.	PP has relied on the earlier judgment of the Delhi High Court and Supreme Court and said that the issue could not be reopened. No obstruction of view or scenic beauty is anticipated.		As per EIA 2006 notification, public consultation is not mandatory for item 8.

**Table 3.** Evaluation of the issues concerning the Appeal made by the appellant, first response by PP, final verdict by NGT, and the authors' remarks.

## Final Verdict by the tribunal:

The tribunal stated that issues related to the environment, based on an order passed under EP Act, 1986, cannot be said to be barred by the principle of res-judicata. As per Section 11 of Act 5 of 1908, res judicata follows the principle which prevents the same case from being litigated twice between two or more parties already decided by the court. The doctrine of Res Judicata is applied by the court where issues directly and substantially involved between the same parties in the prior and current lawsuits. However, the Appeal focuses on different aspects of the environment, which are determined by the FAR and height of the buildings. Therefore, from table 3, it has been established that reference to earlier studies/reports in the context of 02/2021 was illegal, unfair, and impertinent. Hence, it was found that PP submitted wrong information and withheld relevant information resulting in the determination of the issue regarding the environment against PP.

	SITE				
S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict	Remarks	
1	The site in question falls under sub-zone C-13 (University Area), where tall buildings are restricted under MPD 2021 and the Zonal Development Plan (from now on referred to as 'ZDP') of Zone C.	This cannot be permitted since it was already decided in WP(C) No. 2743/2012	PP rightly mentioned that the case falls under res-judicata, but since it forms the base of the Appeal hence, it cannot be accepted. We agree with the appellant's argument that EAC/MoEF failed to apply their minds in this situation.	The permission for high rises shouldn't have been allowed. Even if allowed, height should have been restricted as per Fire safety norms.	
2	Department of Health, Education and Land, Government of India, through its letter dated 25.10.1943 issued by the Joint Secretary, has said that no unseemly buildings shall be erected in the neighborhood of Delhi University and the regulatory body should consult the University of Delhi before building plans are approved. Still, no heed was paid to the said direction.	This issue can't be permitted since already been decided in WP( C ) No. 2743/2012		As per EIA Notification 2006, all building or construction projects or Area Development projects ( which do not contain any category 'A' projects and activities) and Townships (items 8(a) and 8(b) in the schedule to the notification) are not required to undertake Public Consultation.	
3	The soil investigation report of	For the EAC, the	There was	As the size of the	
	2018 was considered for the project in 2021.	subsequent soil analysis was conducted on 21.12.2020 by M/s	concealment of information as PP mentioned the project	project increased from the application of its first EC in 2009 to its	

		SITE		
S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict	Remarks
		Ind Research and	as 'New' and failed to	third EC in 2018,
		Development House	clarify that it had	therefore the report
		Pvt. Ltd., recognized as	submitted applications	could not have been
		NABL Accredited	for prior EC twice. Pre-	relevant for the project.
		Laboratory by	construction and	
		MoEF&CC, and has	geotechnical	
		been considered.	investigations were	
			done in 2009, and	
			further subsequent	
			tower-specific analysis	
			was done in 2018. As	
			per the report, the site	
			is suitable for the	
			proposed	
			construction.	
		TRANSPORTATIO	ON	
1	The problem of traffic	The PP mentioned	Based on the	The edges of the site
	congestion has not been	calculations regarding	information	face two main roads
	considered.	volume by a capacity	supplemented by the	where the traffic flux is
		ratio	PP, there is no carrying	very high due to the
		Width of :	capacity assessment to	institutional nature of
		Cavalry Road: 24 m	sustain the project in question. The	the land use.
		Chhatra Marg: 18 m	clearance is based on	
		The PP stated that	the non-application of	
		substantial personal	mind, which vitiates	
		trips would be made by	EC.	
		Delhi Metro, mainly		
		due to Project's		
		proximity to the		

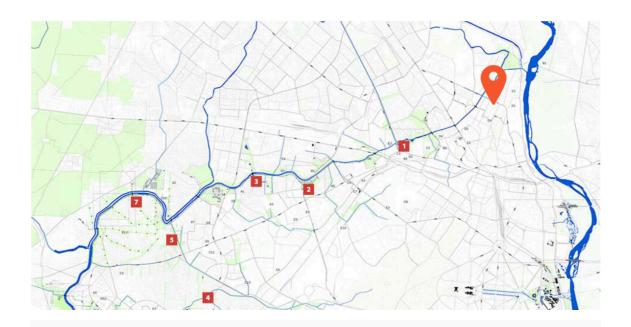
	SITE				
S.No.	Issues Highlighted in the First  Appeal No. 112/2018 by the  Appellant	First Response by the Project Proponent	Final Verdict	Remarks	
		Vishwavidyalaya Metro Station, within walking distance. The estimated v/c ratio of 0.85 would not create congested conditions on Cavalry Lane.			
2	The traffic analysis report of 2018 was relied on by EAC through the grant of EC and was considered in 2021; old data was relied on, which was impermissible.	Denies this objection by stating that EAC has considered updated facts and figures, not the 2011 report.	The EAC/MoEF fails to examine the movement of commercial vehicles transporting the raw materials to the site. The movement is bound to increase levels of SO2, NO2, and CO.	It has been established that the air quality of the context is extremely poor, and any extra load will hamper the environment further.	
3	Committee constituted by Lt.  General gave an adverse report on traffic load and ambiance of the University but has not been given due weight, particularly dissenting views recorded by one of the members.	Objection denied by PP, stating that this is already covered by the judgment of Delhi High Court and Supreme Court.	The effect on air quality both during and after construction is not acknowledged. The entire information lacks specific details.	The poor air quality of the capital cannot be ignored.	
		Waste Managem	ent		
1	No specific procedures were mentioned or taken into consideration for waste management.	Denying this objection, construction and demolition waste generated from the	The comparison between ECs displayed an increase of 336 kg of solid waste. About 840	High rises in India and abroad have proved to be structurally stable and proper waste	

	SITE				
S.No.	Issues Highlighted in the First  Appeal No. 112/2018 by the  Appellant	First Response by the Project Proponent	Final Verdict	Remarks	
		project site is expected to be 6900 T in three years.  Operation phase: The solid waste generated will be about 1.4 TPD which will be segregated into biodegradable (0.85 TPD) and non-biodegradable (0.55 TPD). The non-biodegradable wastes will be disposed of through North DMC, and the biodegradable scraps will be composted in an onsite composting unit.	kg/day of total solid waste will be generated from the complex. Tall buildings generate large volumes of waste as they house a larger population, and waste management becomes challenging.	management. Waste Management requires an integrated city approach.	
		NOISE			
1	The area in question was not considered a silent zone though the site is an education hub.	PP has relied on the Government of NCT Delhi Notification No. F-12 (1) N.P./Env/2005/ 32 declares an area of 100 m around all educational institutions having	The nearest hospital to the project site is Patel Chest Hospital, located at an aerial distance of around 600 m. Still, the site map shows that the area is surrounded by a large number of colleges, various	School of Open  Learning is adjacent to the site, with a regular and high flux of students, teachers, and staff.	

		SITE		
S.No.	Issues Highlighted in the First  Appeal No. 112/2018 by the  Appellant	First Response by the Project Proponent	Final Verdict	Remarks
		more than one	departments of DU,	
		thousand students.	and hospitals.	
		VEGETATION		
1	The impact on the northern ridge was not considered.	Northern Ridge is about 500 meters from the project site. Hence, it is not required to study the impact of the project on the ridge.	Clearance of the Ridge Management Board is required as the site is in a groundwater discharge zone and forms a path for the recharge of the ridge.	The site is 6,00 m as per Google Maps. Kamala Nehru Ridge is not under the 10 km boundary of Protected Areas notified under the Wildlife Protection Act, 1972, and Critically Polluted areas as identified by the Central Pollution Control Board from time to time: Delhi Najafgarh Drain Basin, Wazirpur, Naraina, Anand Parbat, and Okhla as per 2019 DPCC Report. ( Only one protected area in Delhi: Asola Bhatti Wildlife Sanctuary.)
2	Cutting off trees is erroneous/misleading/ suspicious.	Permission was granted to cut 156 trees and ensure compensatory plantation of 1560 saplings (ten times),	PP has failed to provide correct information and submitted wrong information that no clearance of vegetation was required,	As per regulations, tree cutting is not allowed without any prior clearance. If allowed, certain procedures have to be followed, like

SITE				
S.No.	Issues Highlighted in the First  Appeal No. 112/2018 by the  Appellant	First Response by the Project Proponent	Final Verdict	Remarks
		where half were to be planted by the Department of Forest and Wildlife while the remaining half were to be planted by PP.		transporting the trees or planting new trees.
4	The possibility that the region is inside a critically contaminated area or, at the very least adjacent to one is not considered.	PP has denied this objection stating that the project site area is not located in a critically polluted area, and EAC has observed this in the meeting dated 01.03.2021.	Form I and Form IA do not mention the project's closeness to the Najafgarh drain, which is highly polluted, and no mention has been made as the area is semi-critical as per the Dynamic Ground Water Study 2017.	The map shown in figure 13 displays that the site resides only 600 m away from the critically polluted Najafgarh Drain Basin area identified by the Central Pollution Control Board (CPCB). The location ought to have been classified as a Category A project under the EIA Notification of 2006, necessitating a scoping and terms of reference review by the Central Government.

**Table 4.** Compilation of issues concerning the site, transportation, waste management, noise, and vegetation with responses from the PP and the tribunal.



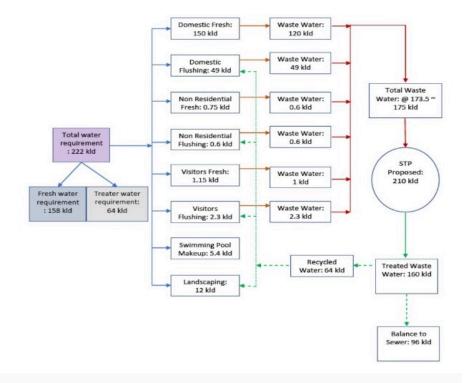
**Figure 12.** Map of Najafgarh Drain with site location, Source: The Yamuna River Project at the University of Virginia and Tulane University

	Water				
S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict by the National Green Tribunal		
1	The amount of water needed during the construction and operation phases is underestimated.	PP stated before EAC that during the construction phase, the water requirement would be about 280 million liters, i.e., 2KL/sqm of the built-up area, and treated waters will be fulfilled through tankers supplied by Delhi Jal Board.  During the operation stage: The total quantity of water requirement would be about 222 KLD, out of which 158 KLD of fresh water will be met by the supply of DJB, while 64 KLD water will be recycled water as treated in the situ STP of the project.	No material has been placed before the tribunal to showcase that DJB has a requisite quantity of treated wastewater to supply to PP.		
	PP provided no clarity on groundwater use, yet EC was granted without considering this aspect.	PP expressed that it will not use groundwater during construction, which was also made clear to EAC.	PP admitted that dewatering would temporarily impact the groundwater level, which would find its course, which was not mentioned in Form I, IA, and Conceptual Plan. Hence the project will impact the groundwater flow as construction is cutting across the groundwater stream, which might severely impact the population residing in the area.		
	The status of the area concerning scarcity of groundwater and its	The issue is without merit because  Northern Ridge is about 500  meters from the project site, and	North Delhi, where the site falls, is a groundwater-stressed area admitted by PP and is in the semi-critical category.		

	Water				
S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict by the National Green Tribunal		
	effect on the northern ridge was not considered.	PP would not utilize any groundwater.			
	The carrying capacity study of the area concerning available water resources was not conducted per the Tribunal's direction.	There will be no groundwater extraction during the construction and occupancy phase of the project. Further, a 0.003% increase in water requirement in the grid is anticipated.	It is understood that no groundwater will be extracted during the construction & occupancy phase of the project. The water will be met through private tankers and during occupancy by Delhi Jal Board, for which necessary permissions have been obtained. Further, a 0.003% increase in water requirement in the grid is anticipated.		

**Table 5.** Compilation of water management issues with responses from the PP and the tribunal. (Source: Author based on the Appeal)

Response by Project Proponent:



**Figure 13.** Water consumption by PP, Source: Environment Clearance for Proposed Group Housing 2021

As per PP, the project has been planned to collect the entire wastewater (sewage) generated from every dwelling unit and community block. The water consumption by the project is displayed in figure 13. The whole wastewater of 175 kld will be channelized to the proposed consumption of 210 kld. The proposed STP follows MBR technology with treatment up to the tertiary level with ultra-filtration. 64 kld treated wastewater will be recycled within the project site for flushing and landscaping. Balance 96 kld treated wastewater will be disposed of in the JDB sewer line. The area demarcated for STP is 150 sqm.

#### Response by the tribunal:

Although the PP shows the water consumption, the impact of the change of hydrology of the watercourse of groundwater hasn't been mentioned in the Conceptual Plan nor any other document, and the discussion on the same was not found in the record of EAC or MoEF&CC. The lack of examination of the project's impact on the environment by SEAC/MoEF was noted and showed a total non-application of mind and a mechanical exercise of the grant of EC.

	AIR				
S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict	Remarks	
1	No consideration was provided to the Carrying Capacity of the area, particularly AAQ being beyond prescribed national standards.	PM10 and PM2.5 exceed the permissible limit. As the study was done during the month of December 2020. It is found that generally that the PM10 and PM2.5 level in the region of Delhi and NCR is more than the permissible limit and also the maximum during the month of December and January,	Data given by PP shows that air quality norms exceeded at the location in question, and the situation is further deteriorating. In the present case, there is no carrying capacity regarding air quality to sustain the project.	Various mitigation plans have been adopted to improve the city's air quality, but the improvements have been meager. Hence, allowing such a project with its highly built-up area requiring material transportation will harm the environment.	

	AIR				
S.No.	Issues Highlighted in the First Appeal No. 112/2018 by the Appellant	First Response by the Project Proponent	Final Verdict	Remarks	
2	The impact of dust pollution and nearby hospitals, science labs, etc., was not considered.	Denying the above objection, PP has said that during the construction phase, any disturbance through dust pollution will be mitigated by the use of windbreakers all along the project boundary, compact storage of loose soils, and C&D waste and water sprinkling on roads and vulnerable areas of the construction site will be carried out for dust suppression.  Ready-mix concrete shall be used to a more significant extent to minimize dust emissions at the site.  Vallabhbhai Patel Chest Institute is at an aerial distance of 460 meters.	The absence of the Windrose diagram of air pollution is on record as it has not been conducted.	The site is adjacent to the School of Open Learning, which has a regular flux of people from the metro station.  The lack of a Windrose diagram restricts identifying the wind direction in which the dust would travel and impact the users.  It should also be noted that the project in question is a high rise where the provisions of using windbreakers wouldn't do much.	

**Table 6.** Compilation of issues concerning Air Quality with responses from the PP and the tribunal. (Source: Author based on the Appeal)

## Response by Project Proponent:

PP has blamed the cause of increased air pollution on the burning of parali/stubble in the regions of Punjab and Haryana. PP has also provided the ambient air quality at the project site and observed that

SO2, NO2, and CO concentrations are within the prescribed limit. However, PM10 and PM 2.5 exceeded the permissible limit, which is a typical scenario in Delhi.

### The verdict by the Tribunal:

The tribunal questioned the reasoning behind asserting that the burning of parali in neighboring states is the reason behind air pollution in Delhi. It must examine whether there could have been South or North side wind, the velocity of wind, the capacity of the particles of the smoke to travel with air, and other relevant aspects which were not highlighted in the report. PP assured that they would not use groundwater and water tanks delivered from Delhi Jal Board (DJB) which would add to the air pollution in an already highly polluted area. There was no consideration given to the site's ambient air quality status for the project's sustenance in the proposal, which displays no due application of mind by EAC/MoEF&CC in granting EC.

## Discussion

The aim of the EIA is to scrutinize the constructional activities of new projects or expansions regarding their impacts to determine the feasibility of the project (Ministry of Environment, Forest and Climate Change, 2006). The intention of the EIA is not to stop development but to stop harmful environmental effects by evaluating the proposed project's impact in the present and future. India has taken a significant stance through the judiciary as in Almitra H. Patel & Ors. vs. Union of India and Ors., a Public Interest Litigation (PIL) filed by Amrita Patel under Article 32 of the Constitution in which the petitioner sought immediate action regarding the treatment of solid waste or garbage in all the cities of India. It was identified as a significant issue, and notices were issued to over 25 directions to all the states and UTs to strictly follow and implement the Solid Management Rules, 2016. It provides people access to a healthy environment (Ministry of Environment, Forest and Climate Change, 2006).

# SUPERTECH LIMITED

Land Area: 48263 sqm (Alloted on

23.11.2004)

No. of towers: 14

New Land Area: 54819.51 sqm (Addition-

al land 6556.51 sqm added on 21.06.2006)

Height of the

towers

121 m

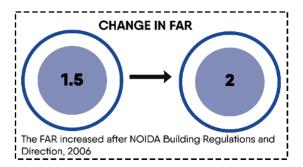
9m

Distance between the

towers



Image of Supertech Tower, Source: Getty Images



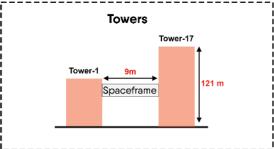


Figure 14. Supertech Housing Information (Source: Author based on information provided in (Bansal, 2021))

The jurisprudence has been elevated as per the recent demolition of 121 meters high towers in Noida, as shown in case study 1, which was ordered by the Supreme Court of India in favor of the residents of Emerald Court. Supertech Ltd. violated building regulations (Bansal, 2021). According to the NBR 2010, the distance between two adjacent building blocks should be between 6 and 16 meters, whereas the actual distance was found to be 9 meters. This would have resulted in poor access to light and ventilation by the residents of the dwelling units.

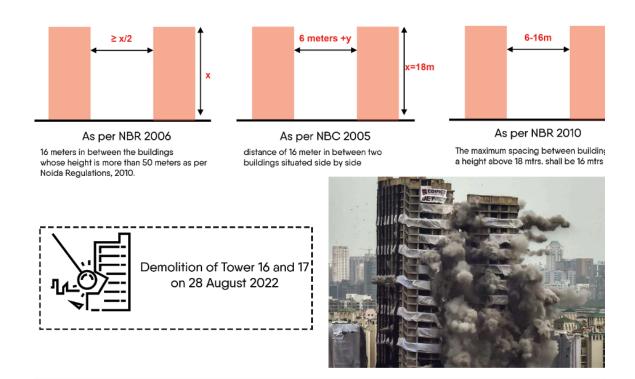
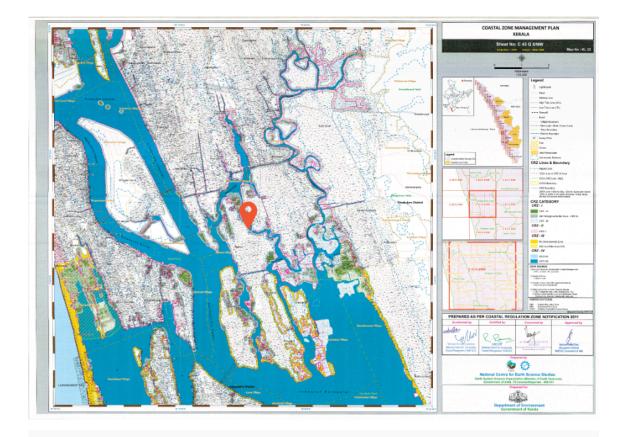


Figure 15. Supertech Housing Information, Source: Author based on information provided in (Bansal, 2021)

Similarly, another housing case was Appealed to the Supreme Court, as shown in case study 2, which ordered the demolition of five residential complexes in Maradu Grama Panchayat near Kochi in Kerala (Onmanorama Staff, 2019). The site of the housing project fell in Coastal Regulation Zone- III, where only specific agriculture or public facilities are permitted. The Maradu gram panchayat claimed in an affidavit that "due to its well-developed nature, the gram panchayat will come inside CRZ-II, while the territory was incorrectly placed within CRZ-III" (Onmanorama Staff, 2019).

According to the reports of the technical committee formed under the direction of the Supreme Court, it was identified that the Maradu gram panchayat violated the CRZ rules. The information disclosed that according to the draft CZMP prepared per the CRZ notification in 2011, Maradu had been classified in the CRZ-II category, as marked in figure 16. However, the draft has not been approved by the Union Ministry of Environment, Forest and Climate Change so far. Hence, it means that the Coastal Zone Management Plan (CZMP) of 1996 has to be followed where Maradu comes under CRZ-III as it follows the CZMP of 1996 until the government approaches CZMP 2011.



**Figure 16.** Coastal Zone Management Plan 2011 showing the location of the site on CRZ-II(Not approved), Source: keralaczma.gov.in

From the above case studies, it is evident that the alleged irresponsible approval of NOCs has led to the construction of inhabitable or dangerous spaces.

In the Appeal by Delhi University, one of the significant points taken up by the tribunal is the focus on carrying capacity study. The carrying capacity of a location cannot be ignored as it affects the environment, which we are all part of. In one of the recent cases, the NGT fined a builder 15 crore for extending the buildings by extra floors in violation of the Environment Clearance, which caused extra pollution load on the environment. The NGT has disposed of approximately 700 cases at different stages of hearing, with largely generic orders to direct the concerned authorities to investigate the matter and take proper actions as per law (Ramesh, 2019). The fast-tracked court assures people their right to a healthy environment, as observed in the Appeal where the NGT revoked the EC due to false information the PP provided regarding the project's impact on the environment of the city.

## **Conclusions**

The judgment passed by the National Green Tribunal on the Appeal made by Delhi University was found against the project proponent on account of all issues stated in the Appeal. The merit review by the tribunal highlighted the lack of relevant information by the project proponent. The main issue surrounding the validity of the case was questioned as per res-judicata, where the subject matter of consideration regarding land and relaxation in height was decided in favor of the project proponent- as it did not include environmental issues. Even so, the issues related to the environment under the EP Act, 1986, cannot be barred by the principle of res-judicata. It was discovered that PP supplemented false information on various accounts, such as not disclosing prior ECs before applying for the third EC and failing to provide information regarding the carrying capacity of the site. Based on the information provided by the PP and appellant, the tribunal concluded that EC was granted without application of mind, and the EC dated 21.05.2021 was quashed. The order passed by the National Green Tribunal is justified as the PP provided false/unclear information on more than one issue, allowing the tribunal to revoke the EC. The tribunal rightfully decided in favor of the environment; however, the question arises whether all the developmental projects in Delhi should be brought to judicial scrutiny and halted as the carrying capacity of the city's resources has almost reached its limit in terms of air quality, water, traffic, and many others highlighted in the Appeal. It cannot be missed that air and water are not without limitations. Does this mean the city cannot allow any new projects due to its insufficient carrying capacity? Matters reaching the court should not become a common occurrence, and the executive shall create accountable structures in the governance so that the builders build responsibly with full regard for the environment.

With rapid urbanization and migration to the capital, the city's housing needs are also expanding. With low unbuilt land parcels and higher requirements for shelters, the proposals for new high-rise projects in the capital are adding to the already low carrying capacity of the city. Various programs have been designed to improve the carrying capacity of the city, such as the Central Pollution Control Board's action plans for Delhi and NCR to mitigate air pollution. However, the results are in the process of being fully satisfactory. Alleged careless and thoughtless approvals of environmental clearance by various regulatory bodies have become a rising trend in present scenarios. This has disturbed the balance one needs to maintain between development and the environment. In such projects, public bodies were compelled to Appeal regarding the projects' detrimental impacts on the environment in the courts.

Our cities are developing, and the fact that Delhi is one of the most polluted countries in the world cannot be neglected, but development cannot be restricted. A balance must be achieved with respect to the carrying capacity of the location and the need for housing the ever-burgeoning populace. Hence, in order to prioritize the environment, policies should be mandated and regulated to ensure sustainable development in our cities. For this, it becomes pertinent to design a framework that allows construction in harmony with the environment without jeopardizing development. Incentivizing and providing green financing to developers and builders to follow sustainable green development measures must be encouraged. With limited carrying capacity, it is crucial to mandate environmental clearance codes in the form of enforceable building by-laws to prevent the alleged irresponsible issuance of environmental certificates by the state and central officials. For the sake of environmental clearances, the project proponents must not directly appoint the environmental clearance appraisal team but must be done through a regulated central body which in turn appoints experts in the matter. In the long term, this will bring accountability in the process of environmental clearances in India. A balance should be maintained between development and the environment by advocating for policies and mandatory by-laws which can be devised to ensure sustainable development and to have accountability in the process so that the matters are responsibly handled by the executive without ever reaching courts of law.

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# **Declarations**

**Funding:** No specific funding was received for this work.

**Potential competing interests:** No potential competing interests to declare.