



READY TO CHARGE

Siting Electric Vehicle Charging Stations in Hyderabad

A Case Study by NRDC–ASCI

Executive Summary

India has set ambitious electric vehicles (EV) sales targets for 2030, which include 80 percent for two- and three-wheelers and 70 percent for commercial cars.¹ Now Indian states must increase the number of charging stations for drivers to comfortably use these next generation vehicles.

Rising to the opportunity, the state of Telangana launched a forward-looking EV policy in October 2020. This prompted Telangana State Renewable Energy Development Corporation Ltd (TSREDCO) and key stakeholders to advance a process for siting over 138 charging stations across the state.² Most of the charging stations are planned for Hyderabad, the state's capital city.

TSREDCO and knowledge partners, the Administrative Staff College of India (ASCI) and the Natural Resources Defense Council (NRDC), along with key stakeholders developed a roadmap to site 35 charging stations in Hyderabad. The ASCI-NRDC team partnered with U.S.-based EV Advisors, to create a stepwise roadmap for choosing optimal EV charging sites in Hyderabad, based on local, national, and international expertise.

The roadmap included a feasibility assessment on power infrastructure costs, accessibility, travel patterns, type of charger and charging speed needed, cost considerations for the physical space, power availability, the scope for future expansion and potential safety concerns. Potential sites were initially identified by TSREDCO, given land availability and power infrastructure access. Each potential site included a detailed site visit and plan. Another major consideration was equity and serving lower-income communities.

This case study highlights that a judicious approach to siting ensures funds for public projects are used efficiently, efforts are not duplicated, and regulators account for siting considerations when planning for charging infrastructure. The Hyderabad siting analysis concluded that out of the potential 35 sites, four were ultimately not feasible, given relocation and power infrastructure costs. This case study includes the data collected and the analysis performed in the annexures: Annexure 1 encapsulates the data points, considerations for siting EV charging stations in Hyderabad, Annexure 2 includes the costs of energizing the charging sites, and Annexure 3 reviews the sites according to their accessibility considerations.

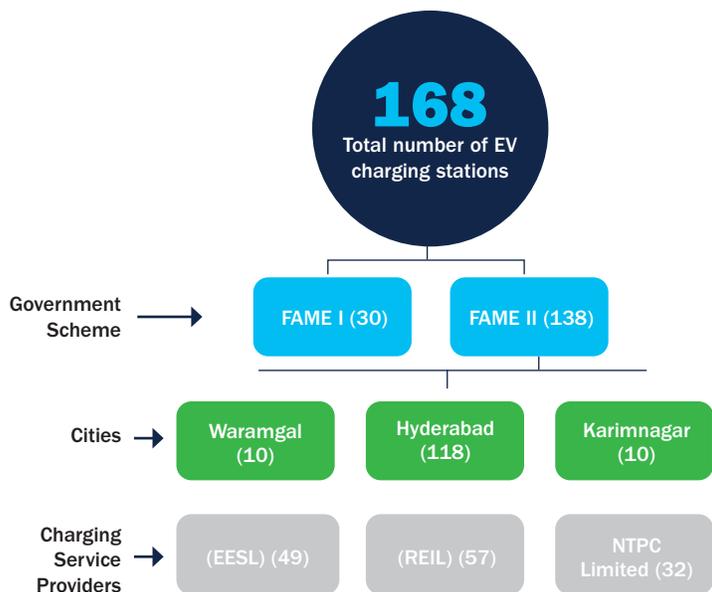
Policy Context

As policymakers in India establish EV incentives and programs, one crucial question is how to logistically place initial charging infrastructure so that it promotes EV adoption. A robust and well-located network of EV chargers in Hyderabad will accelerate EV deployment and facilitate transportation electrification in the state.

With the Telangana EV and Energy Storage Solutions Policy released in 2020, stakeholders are pushing for an integrated approach to deploying public charging stations.³ Hyderabad is leading the way by hosting several stakeholder and technical committee discussions, including on location and siting considerations, as well as revising existing building codes to include charging infrastructure in new buildings.

Figure 1: Public EV charging stations under FAME scheme in Telangana

Source: TSREDCO, 2021⁴



TSREDCO is responsible for establishing public charging stations in Telangana. ASCI, NRDC, and key stakeholders are working together as knowledge partners with TSREDCO and the state government to site public EV charging stations in Hyderabad. Under the Faster Adoption and Manufacturing of Hybrid & Electric Vehicles (FAME) scheme, 168 charging stations have been allocated for Telangana (30 stations under FAME-I and 138 stations under FAME-II).⁵ Presently as many as 136 EV charging points are operational in the state.⁶ Additionally, TSREDCO plans to set up 600 EV charging stations across the state over three years under a public-private partnership model.⁷ These new charging stations are expected to have at least two charging guns (i.e. plugs).

Charging Infrastructure and EV Deployment in Hyderabad

India's auto market predominantly consists of two-wheelers.⁸ Consistent with the national trend, two-wheelers dominate the existing volume of vehicles in Telangana, as well as the new entrants in Hyderabad. Telangana has more than 13.8 million registered vehicles on its roads, including 10.28 million two-wheelers (74.5 percent), 1.7 million four-wheelers, and 0.45 million three-wheelers.⁹ Telangana has recorded a sustained growth in the number of vehicles over the years, indicating massive potential for EV deployment. Prior to COVID-19, almost 3,500 to 4,000 vehicles were registered daily.¹⁰ Following

the COVID-19 national lockdown, it was about 2,500 to 3,000 vehicles daily in 2020, with Hyderabad, Ranga Reddy, and Malkajgiri districts having the fastest growth in registrations.¹¹ The accelerated growth of vehicles is due to the development of infrastructure and the state cementing its position as a major information technology (IT) hub. The Greater Hyderabad region now has about 12,000 electric and hybrid vehicles, consisting of 5,000 battery-operated vehicles, 5,000 hybrid diesel-EVs, and 2,000 hybrids.¹²

The city of Hyderabad has more than 50 public charging stations set up by Fortum, Lithium Urban Technologies, HPCL, PGCL, and other companies.¹³ If the Greater Hyderabad area is considered, there are 70 EV charging stations, most of which are located at metro stations.¹⁴ Of the 138 charging stations sanctioned for Telangana under FAME-II, 118 will be in the Greater Hyderabad region. While this is a start, it is very low compared to the number of charging stations needed to achieve the goal of an EV charging station every three kilometers (kms) in cities and every 25 kilometers on both sides of highways.¹⁵

The three agencies that will be responsible for installation of the sanctioned charging stations in Hyderabad are Rajasthan Electronics & Instruments Ltd (REIL), National Thermal Power Corporation (NTPC), and Energy Efficiency Services Limited (EESL). The installation breakdown of the 118 stations in Greater Hyderabad is REIL with 37 chargers, NTPC with 32 chargers, and EESL with 49 chargers. State power utilities are working with the charging service providers to ensure that the electrical distribution system in Telangana can handle the added EV load.

Siting EV Charging Infrastructure

As a first step to siting, charge point operators (CPOs) scout for strategic locations and develop a method to prioritize potential sites. Location and siting analyses usually involve considerations on cost, accessibility, and equity. These include:

- 1. Upfront costs.** Costs are reduced when building infrastructure and there already is sufficient electrical capacity, a limited need to build upstream power infrastructure, public land that can be used at little or no cost, or a site with minimum civil construction costs.
- 2. Accessibility.** Easy access and a proximity to utilities will maximize the use of the charging infrastructure, thus increasing financial viability. Locating and siting charging infrastructure near major destinations, major thoroughfares, or close to attractions/consumer utilities/food joints, offers users the convenience of park and charge, mitigates charging wait time, and offers two-way access to drive usage.

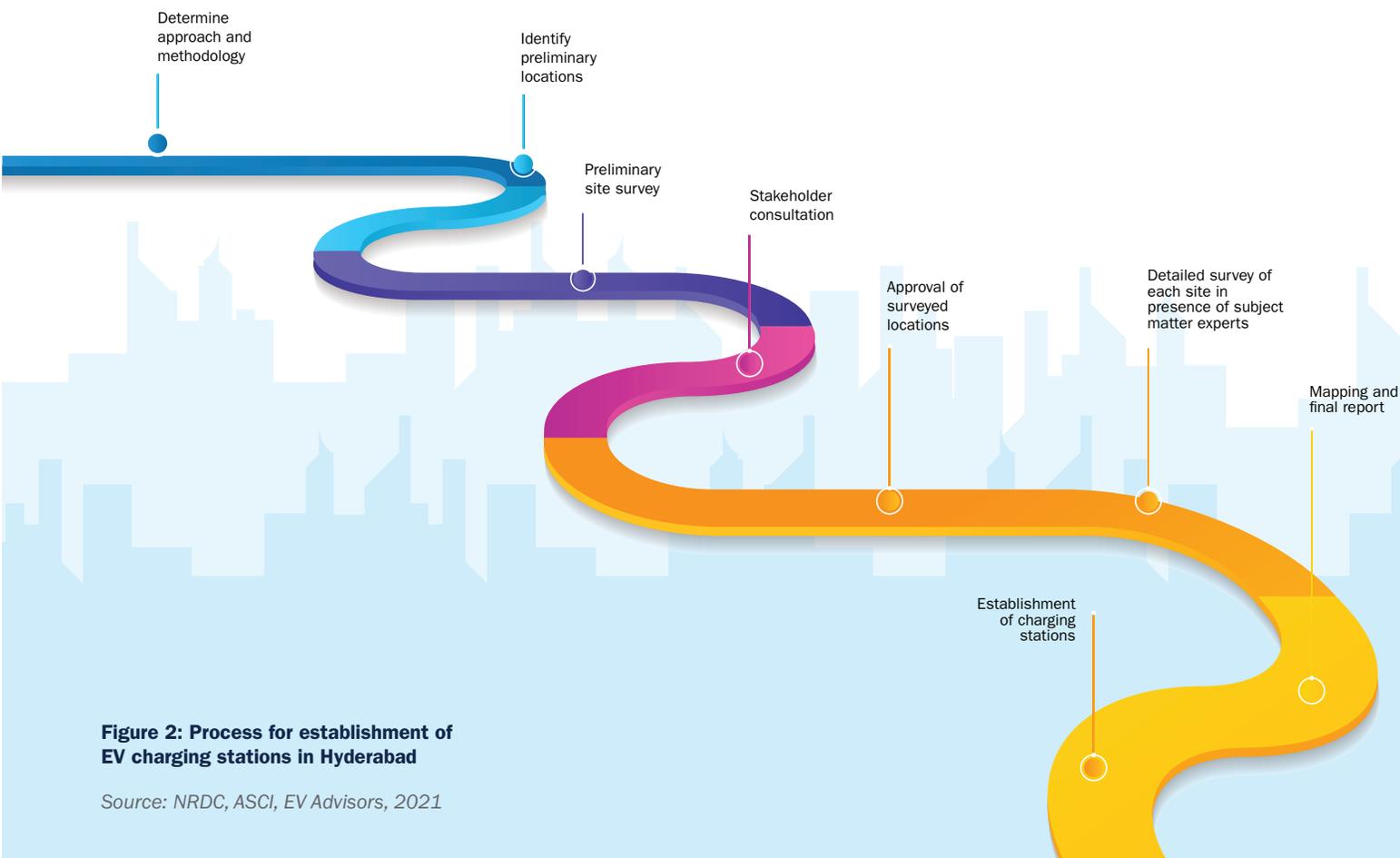


Figure 2: Process for establishment of EV charging stations in Hyderabad

Source: NRDC, ASCI, EV Advisors, 2021

3. **Equity considerations and gap filling.** Infrastructure should be built where there is limited public charging to include lower socioeconomic areas and reduce range or charge anxiety (the fear of running out of power).

Project Aim and Methodology

NRDC and partners previously researched the best practices and international experiences when siting for public EV charging infrastructure in *Location is Everything: Approaches to Siting Electric Vehicle Charging Infrastructure*.¹⁶ To translate this research into action, NRDC, ASCI, and Michael Krauthamer of EV Advisors developed a stepwise roadmap for siting public EV charging infrastructure in Hyderabad. This roadmap aims to serve as a tool for stakeholders to use when siting charging infrastructure. NRDC and partners engaged with local power utilities, the municipal corporation, civil engineers, and EV supply equipment (EVSE) developers. Figure 2 shows the stepwise roadmap for establishing EV charging stations in Hyderabad.

For this project, the potential locations in Hyderabad were predetermined by TSREDCO. These sites were preselected based on criteria such as space availability, proximity to outer ring roads, toll buildings, public parking spaces and distribution company (DISCOM) substations, and land parcels under the purview of Greater Hyderabad Municipal Corporation and Telangana DISCOMs (Figure 3). Data on the preselected 35 potential sites was then collected on the following basis: the use-case specific charging infrastructure requirement; the feasibility of installing chargers at the selected site from a civil construction perspective; the feasibility on the power distribution side; accessibility; safety and threats; and the development of a detailed site plan (Table 1).

Figure 3: TSREDCO's criteria for preselecting EV charging sites in Hyderabad

Source: TSREDCO, 2021

Public EV charging Stations in Telangana

460-500 square feet
Space of each charging station

Potential locations for placement of charging stations/chargers:

- Entry and exit points of Outer Ring Roads
- Near to/inside the premises of Toll buildings
- Parking places outside public parks
- DISCOM substations

Purview of tentatively selected locations

- HMDA, GHMC
- TS DISCOMS – TSSPDCL & TSNPDCL

Configuration of chargers

- 122kW charger with three guns (50kW CHAdeMO + 50kW CCS + 22kW AC type 2)
- Bharat DC 001 (15kW, single gun)
- Bharat AC 001 (10kW, 3 guns of 3.3 kW each)



Figure 4: Criteria for selecting optimal EV charging sites

Source: NRDC and Partners, 2021

The fact that siting EV charging stations is a complex exercise, there is a whole array of parameters that charge point operators needs to consider. Figure 4 encompasses various type of parameters for a holistic siting exercise.



- 1 Land Parameters**
Latitude, longitude, size, parking spaces, type of ground, area description, scope of future growth
- 2 General Parameters**
Visible, secure, topography, access/egress, sheltered & ventilates, well-lit, available 24 hours, proximity to consumer attractions, type of consumer catered
- 3 Traffic parameters**
Enroute major traffic movement, trip origin or destination site, vehicle parking site
- 4 Charging station configuration**
Number of slow/fast chargers, kW rating, number of guns, mounting arrangement, total connected load
- 5 Power connection parameters**
Availability of connection, proximity to utility panel, possibility of supplying to total load, transformer/cabling/trenching/pole requirement, scope for future growth

Table 1 maps the parameters across each criterion and shows the template used for recording our siting data. All the data collected from the potential sites is available in Annexure 1.

Table 1: Roadmap for charging infrastructure in Hyderabad

	Steps for siting charging infrastructure	Parameters
STEP 1	Choose the location and preliminary site feasibility	A. Determine where the location is: 1) an outer ring road, 2) a dense inner-city pocket, 3) a public space, 4) a highway, 5) a residential complex, 6) an existing fuel pump, 7) or another privately owned space/office.
		B. Note the level of traffic and traffic patterns.
		C. Is it a major trip origin or destination site?
STEP 2	Determine the use case and charging infrastructure requirement	A. Note if the location/site under consideration is 1) a travel corridor, (2) whether it falls within the main city boundaries (urban), or outskirts; (3) whether it is a commercial, or residential area, or (4) if it is a major start/destination point.
		B. Note the basis of the travel pattern and the widely used vehicle segment (2W, 3W, 4W, or bus) to determine the appropriate type and number of chargers.
		C. The charging technology solutions and choices.
		D. Determine the targeted end-users, which are likely to use charging station (office goers/visitors/commuters/fleet operators).
STEP 3	Feasibility and financial viability of getting the physical space	A. Evaluate the site for space available for installation of EVSE, upstream power infrastructure (including distributional transformer, breaker, low tension panel).
		B. Scope for future growth in addition to chargers and land available curbside.
		C. Is physical underground infrastructure (drainage pipes, power cabling) evident?
		D. Mention the type of surface (concrete) and area existing of the site.
		E. Estimate the cost of civil works.
STEP 4	Feasibility on the power distribution side including cost optimization	A. Determine the power load availability at the nearest distributional transformer.
		B. Measure the distance from site to pole, site to transformer to pole, and pole to pole.
		C. Measure the cable length distance from the nearest transformer.
		D. Estimate the cost of laying power cable from transformer to charger point.
		E. Estimate the cost of upstream power infrastructure at various levels of electricity load (160 kVA, 100 kVA, 63 kVA, 25 kVA).
STEP 5	Accessibility and scope for future expansion	A. Note the exact location (latitude, longitude) and/or nearest landmark.
		B. Note the number of 4Ws that could park and charge at the same time.
		C. Note if the location is on-street or off-street, and if there is curbside land availability.
		C. Note the potential for future growth.
		D. Can the user access the charging site for free or is there a parking fee? Note if the location is a parking site.
		E. Is the site terrain flat or sloped (steep slopes would hinder buses and multi-utility vehicles)?
		F. Is there is easy and two-way access and egress (access from main driveway, visible from main drive aisle, close to store entrance)?
		G. Will the location be available for consumer access 24 hours 7 days a week?
STEP 6	Safety and threats	A. Confirm that the legal owner of the property possesses the right to allow you to build.
		B. Note the security of the location. Are there lights, security camera? Is there anything nearby such as a wall or bushes that an assailant could hide behind? Obtain crime report for the property.
		C. Is there a permanent security guard in the location/ near the charging equipment?
STEP 7	Detailed site visit, site photographs, and site plan	A. Develop a site plan (note any physical underground infrastructure such as drainage pipes etc.), take photos, and note the distances to the nearest trees and power distributional transformer.

Source: NRDC, ASCI, EV Advisors, 2021)

Abbreviations: 2W = two-wheeler; 3W = three-wheeler; 4W = four-wheeler; EVSE = EV supply equipment; kVA = kilovolt-ampere.

Feasibility Assessment of Potential Sites

A. COST CONSIDERATIONS

To calculate cost estimates, NRDC and partners engaged with local stakeholders, civil engineers, electrical engineers, electricity utilities, and urban development authority officials. Cost estimates included the cost structures on the power distribution side, including the least cost option to get power to the site from the nearest distributional transformer, the laying of power cable, installation of a distribution transformer if required, and the laying of adequate civil infrastructure. Our assessment revealed that for all 35 sites, an additional distributional transformer would be required. This remains a major cost consideration. ASCI and NRDC considered the electricity load requirement of 100 kVA and associated cost structures at every location. Refer to Annexure 2 for the detailed breakdown of the costs to energize the sites. Figure 5 prioritizes the sites based on the costs of laying power cable, the electricity infrastructure of 100 kVA, and the cost of civil infrastructure. The statistical analysis differentiates the sites based on the amount of capital expenditure (capex) required for an adequate power load and civil infrastructure (Figure 5).

Fourteen of the 35 sites would require capex of less than ₹366,000 (\$5,083) as shown in green in Figure 5.¹⁷ Seventeen sites would require capex of less than ₹534,000 (\$7417), as shown in yellow in Figure 5. Four sites would require higher capex from ₹580,000 to ₹793,000 (\$8056 to \$11014) as shown in red in Figure 5.

B. EASIER ACCESS AND PROXIMITY TO AMENITIES

A site's total accessibility score can range from 0 to a maximum of 100. The total accessibility score consists of six accessibility considerations (easy access, fee score, surface area score, terrain condition score, 24 x 7 availability score, nearby utilities score). The six accessibility considerations create sub-scores which are then summed for a site's final total accessibility score. The sub-score ranges are easy access (easier entry and exit from the site (two-way access): 0 to 20; fee score (whether charging site can be accessed for free or it involves a fee): 0 to 10; surface area score (whether it is well concreted or a mud road, whether it is ventilated or not; any issue of water logging is reported or not): 0 to 20; terrain condition score (if the terrain is flat or sloped on normal driving conditions because steep slopes would be a hindrance for buses and multi-use vehicles): 0 to 10; 24 x 7 availability

Figure 5: Cost of energizing potential charging sites in Hyderabad

Source: NRDC and partners, 2021

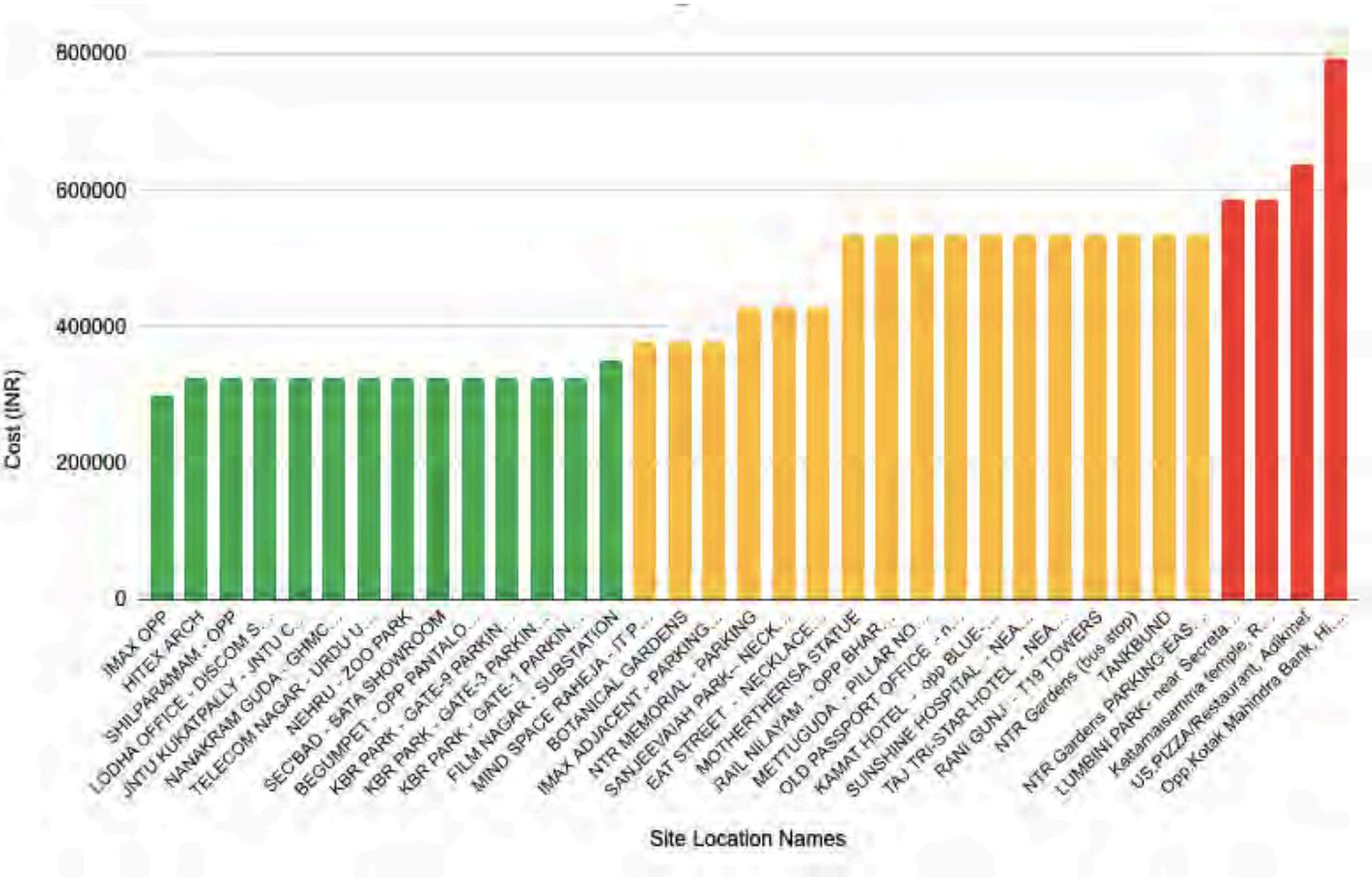
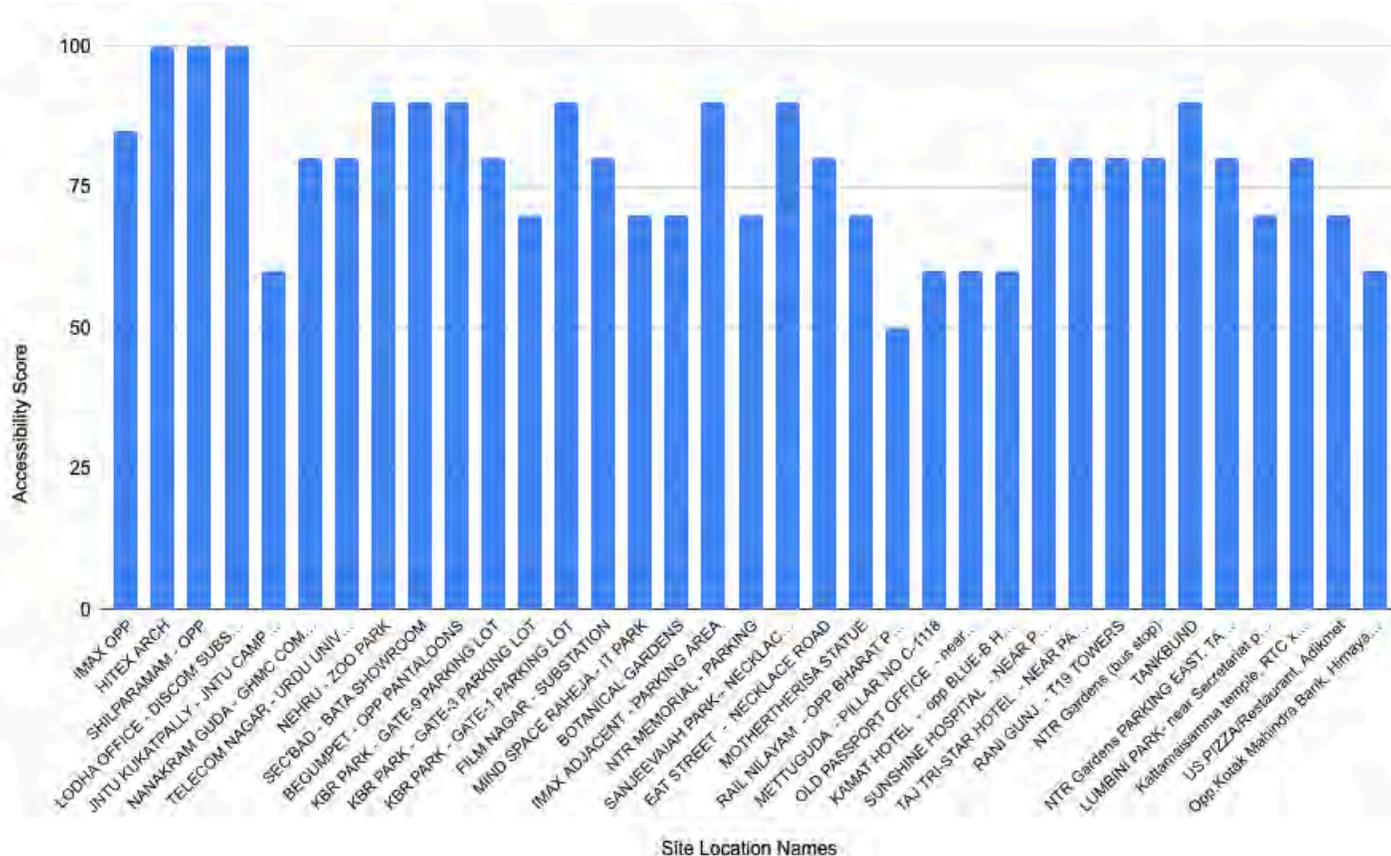


Figure 6: Accessibility score for potential sites in Hyderabad

Source: NRDC and partners, 2021



score (whether charging site can be accessed 24 x 7): 0 to 10; and nearby utilities score, (proximity to consumer amenities where users can spend time while their vehicle is getting charged): 0 to 30.¹⁸

Figure 6 shows the accessibility score for each of the 35 sites based on stakeholder consultations, site field visits, and NRDC and partners’ assessment. Refer to Annexure 3 for a detailed breakdown of accessibility scores for the 35 sites. Accessibility scores for the 35 sites in consideration ranged from 50 to 100.

C. EQUITY FOR LOWER-INCOME COMMUNITIES AND GAP-FILLING

While there has been some progress toward equitable siting, most states and utilities need to do more to ensure that EV charging infrastructure investments reach lower-income communities.

Expanding public charging to include lower-income areas is crucial to achieving EV goals. Planning for public charging infrastructure should also recognize areas where there is limited public charging to reduce drivers’ fear of range anxiety. Siting for EV infrastructure should map information about the current distribution of vehicle ownership in the study area, the preferred vehicular segment, and the type of existing charging infrastructure (i.e., fast or slow charging).

Figure 7 shows the existing set of EV charging stations in Hyderabad and the newly sanctioned 138 charging stations under FAME II.

Figure 7: Charging stations in Hyderabad

Source: NRDC and partners, 2021

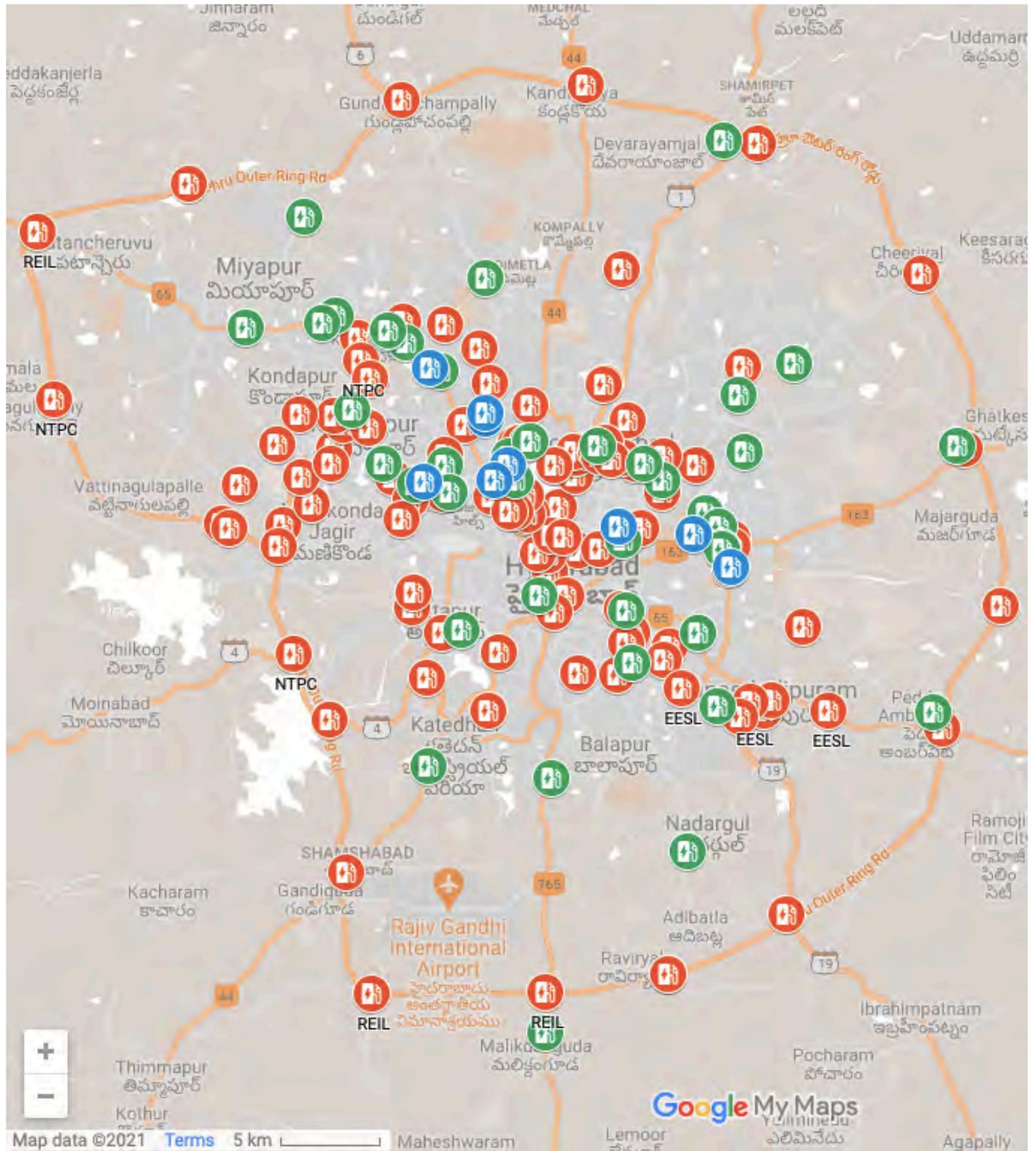


Figure 7 key: **Green** and **Blue**: existing and operational EV charging stations (**Green** are by Fortum, **Blue** are by other charging service provider); **Orange**: proposed EV charging stations.

Results

For Hyderabad to go electric it will need public EV charging stations to be as widespread as the city's approximately 1,200 petrol pumps.¹⁹ Based on international, national, and local expertise, considerations related to power infrastructure costs, accessibility, and travel patterns are critical for siting public EV charging infrastructure.

This Hyderabad siting analysis concluded that out of the potential 35 sites, four were ultimately not feasible. The four unfeasible sites required significant relocation and upfront power infrastructure costs. The unfeasible sites required relocation by 50 to 100 meters due to physical space constraints because the power distributional transformer was in the exact same location or too close from safety perspective. The unfeasible sites also needed significant upfront power infrastructure costs that double or triple the cost of the charging and ancillary equipment. In line with international experiences, our analysis suggests that upstream power infrastructure costs could impose a barrier for charge point operators (CPOs) and limit the expansion of EV charging infrastructure. Other key considerations regarding site feasibility include the site's proximity to consumer amenities and the site's potential for future expansion.

This analysis apprised regulators and TSREDCO on what factors, aside from location, could be considered while rolling out a charging infrastructure scheme. TSREDCO and local power utilities play a major role in getting the grid EV ready. TSREDCO must consider equity for lower income communities while planning and siting for new public charging. This project provides tools that CPOs can use to prioritize potential sites in Hyderabad. Thoroughly accounting for all considerations during the siting process will increase a site's utilization and financial viability.

Way Forward

Transportation electrification will introduce structural changes in the temporal and spatial trends in electricity consumption patterns. This will have ramifications for the long-term resource planning for the Telangana's electricity sector. As EV penetration increases, high charging capacities of EVs and their spatial concentration may lead to significant volatility in the local power demand and put pressure on the existing power distribution system. This can act as a barrier to seamless provision of EV charging connections and can impact grid stability for all electricity consumers. Systemic efficiency requires power utilities and DISCOMs employ smart charging technologies, strategize to respond to grid conditions, and reduce the total cost of vehicle to grid integration. This is essential for a rapidly scalable EV charging network.



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Annexure 1. Data collected for potential sites.

(1.1)(a) Location Name.	(1.1)(b) Address (include Pincode).	(1.2) Landmark.	(1.3) Latitude/longitude.	(1.4)(a) Who is the legal property owner.	(1.4)(b) Number of chargers, as approved by TSREDCO.	(1.4)(c) Number of chargers that can be installed in the indicated location.
IMAX OPP	IMAX Road Khairtabad Behind of, NTR Marg, Hyderabad, Telangana 500063	Theatre	17.412257, 78.464895	ULB(HMDA)	One	(2) Dual-gun charger can be installed in the indicated location
HITEX ARCH - HI-TECH CITY	Hitex Road, Kohtaguda, Telangana 500084	Parking	17.456796807130086, 78.37698503109249	ULB(GHMC)	One	(1) Dual-gun charger can be installed in the indicated location
SHILPARAMAM - OPP	Hi Tech City Main Road, Madhapur Rd,HITEC City, Hyderabad, Telangana 500081	Bus-stop	17.453076047946514, 78.38105569900831	ULB(GHMC)	One	(1) Single-gun charger can be installed in the indicated location
LODHA OFFICE - DISCOM SUBSTATION	Kukatpally Housing Board Colony, Kukatpally, Hyderabad, Telangana 500072	Substation	17.473167, 78.393533	DISCOM (TSSPDCL)	One	(1) Dual-gun charger can be installed in the indicated location
JNTU KUKATPALLY - JNTU CAMPUS	Ashok Nagar, Kukatpally Housing Board Colony, Kukatpally, Hyderabad, Telangana 500085	College campus	17.490537, 78.388147	JNTU	One	(2) Single-gun charger can be installed in the indicated location
NANAKRAM GUDA - GHMC COMPLEX	Khajaguda, Telangana 500032	Sports Complex	17.418175772422394, 78.366873948895	ULB(GHMC)	One	(2) Dual-gun charger can be installed in the indicated location
TELECOM NAGAR - URDU UNIVERSITY RD	Hyderabad, Telangana 500032	College	17.429642845876437, 78.3621247225972	ULB(GHMC)	One	(1) Dual-gun charger can be installed in the indicated location
NEHRU - ZOO PARK	NH 44, Bahadurpura, Hyderabad, Telangana 500064	Park	17.35322021087408, 78.45296440191532	GHMC	One	(2) Dual-gun charger can be installed in the indicated location
SEC'BAD - BATA SHOWROOM	115, Parklane Hotel, General Bazaar, Kalasiguda, Secunderabad, Telangana 500003	Public parking	17.438508022612332, 78.48873541454853	ULB(GHMC)	One	(1) Dual-gun charger can be installed in the indicated location
BEGUMPET - OPP PANTALOONS	Begumpet, Secunderabad, Telangana 500016	Store	17.444808471469486, 78.46252337831886	ULB(GHMC)	One	(1) Single-gun charger can be installed in the indicated location
KBR PARK - GATE-9 PARKING LOT	KBR Park, Gate No. 9, Kasu Brahmananda Reddy National Park, Jubilee Hills, Hyderabad, Telangana 500096	Public park	17.418658656319504, 78.42920370824359	ULB(GHMC)	One	(2) Dual-gun charger can be installed in the indicated location
KBR PARK - GATE-3 PARKING LOT	KBR Park, Gate No. 3, Kasu Brahmananda Reddy National Park, Jubilee Hills, Hyderabad, Telangana 500096	Public park	17.422559504293968, 78.42706776528534	ULB(GHMC)	One	(2) Dual-gun charger can be installed in the indicated location
KBR PARK - GATE-1 PARKING LOT	KBR Park, Gate No. 1, Kasu Brahmananda Reddy National Park, Road No. 2, Jubilee Hills, Hyderabad, Telangana 500034	Public park	17.423484185724085, 78.42448589172481	ULB(GHMC)	One	(2) Dual-gun charger can be installed in the indicated location
FILM NAGAR - SUBSTATION	Sabza Colony, Hakimpet, Hyderabad, Telangana 500032	Office	17.412421947572714, 78.40787363068287	DISCOM (TSSPDCL)	One	(1) Dual-gun charger can be installed in the indicated location
MIND SPACE RAHEJA - IT PARK	Inorbit Mall Rd, Phase 2, HITEC City, Hyderabad, Telangana 500081	Metro station	17.44251014689324, 78.37680199975506	DISCOM (TSSPDCL)	One	(2) Dual-gun charger can be installed in the indicated location
BOTANICAL GARDENS	Kothagud X Road, Kondapur Main Road, Safari Nagar, Kondapur, Telangana 500018	Garden	17.457331027554396, 78.36112887755766	BOTANICAL GARDENS	One	(2) Dual-gun charger can be installed in the indicated location
IMAX ADJACENT - PARKING AREA	IMAX Road Khairtabad Behind of, NTR Marg, Hyderabad, Telangana 500063	Theatre	17.413615094936624, 78.46583824465804	ULB(HMDA)	One	(2) Dual-gun charger can be installed in the indicated location
NTR MEMORIAL - PARKING	Central Secretariat, Khairtabad, Hyderabad, Telangana 500004	Public garden	17.412609480779714, 78.47079429395232	ULB(HMDA)	One	(1) Dual-gun charger can be installed in the indicated location
SANJEEVAIAH PARK - NECKLACE ROAD	Hussain Sagar, Khairtabad, Hyderabad, Telangana 500003	Public garden (opp)	17*26'6.5256"N / 78*28'41.4444"E	ULB(HMDA)	One	(2) dual-gun chargers can be installed in the indicated location

(1.1)(a) Location Name.	(1.1)(b) Address (include Pincode).	(1.2) Landmark.	(1.3) Latitude/longitude.	(1.4)(a) Who is the legal property owner.	(1.4)(b) Number of chargers, as approved by TSREDCO.	(1.4)(c) Number of chargers that can be installed in the indicated location.
EAT STREET - NECKLACE ROAD	Necklace Rd, Hussain Sagar, Khairtabad, Hyderabad, Telangana 500041	Restuarant (opp)	17°25'3"N / 78°27'35"E	ULB(HMDA)	One	(2)dual-gun chargers can be installed in the indicated location
MOTHER THERISA STATUE	St Johns Rd, Regimental Bazaar, Shivaji Nagar, Secunderabad, Telangana 500003	Near pet store	17°26'20.076"N / 78°29'56.4648"E	ULB(GHMC)	One	(2) dual-gun charger can be installed in the indicated location
RAIL NILAYAM - OPP BHARAT PETROL PUMP	South Central Railway, Rail Nilayam Colony, Secunderabad, Telangana 500071	Office (opp)	17°26'22.8948"N / 78°30'32.6916"E	ULB(GHMC)	One	(2) dual- gun charger can be installed in the location
METTUGUDA - PILLAR NO C-1118	Inner Ring Rd, North Lalaguda, Lalaguda, Mettuguda, Secunderabad, Telangana 500017	Metro pillar (opp)	17°26'8.88"N / 78°30'55.7244"E	ULB(GHMC)	One	Only (1) Single-gun charger can be installed in the location
OLD PASSPORT OFFICE - near VIJAYA HEALTH CARE	73, Red Cross Road, Shivaji Nagar, Secunderabad, Telangana 500003	Hospital (opp)	17°26'20.5656"N / 78°29'55.6872"E	ULB(GHMC)	One	(2)Dual-gun charger can be installed in the location
KAMAT HOTEL - opp BLUE-B HOTEL	Clock Tower Park, Near, SD Road, Clock Tower Second Bazaar Area, Kummari Guda, Shivaji Nagar, Secunderabad, Telangana 500003	Hotel	17°26'26.826"N / 78°29'49.8804"E	ULB(GHMC)	One	(1) Single-gun charger can be installed in the indicated location - since there is only way for entry and exit
SUNSHINE HOSPITAL - NEAR PARADISE	PG Road, opposite Parsi Dharamsala, Paradise, Sappu Bagh Apaprtment, Jogani, Ramgopalpet, Secunderabad, Telangana 500003	Sub-station	17°26'28.6548"N / 78°29'14.0892"E	ULB(GHMC)	One	(1) Dual-gun charger can be installed in the location
TAJ TRI-STAR HOTEL - NEAR PARADISE	Seven Hills, 1-1-40, SD Road, Kalasiguda, Secunderabad, Telangana 500003	Shopping mall	17°26'27.6144"N / 78°29"E	ULB(GHMC)	One	(1) Dual-gun charger can be installed in the location
RANI GUNJ - T19 TOWERS	Near, Bus Depot, Shop No. G-1 and F-1, T- 19 Towers House No. 5-4-156, 157, 173 - 179, 184/2/a Indira Nagar, Ginwala Compound, MG Road, Rani Gunj, Secunderabad, Telangana 500003	Shopping mall	17°25'52.2408"N / 78°29'16.9116"E	ULB(GHMC)	One	(2) Dual-gun charger can be installed in the location
NTR Gardens (bus stop)	NTR Marg, Central Secretariat, Khairtabad, Hyderabad, Telangana 500004	Bus stop	17°24'50"N / 17°24'50"N	ULB(GHMC)	One	(1) Dual -gun charger can be installed in the location
TANKBUND	Tank Bund Rd, Lower Tank Bund, Kavadiguda, Hyderabad, Telangana 500080	Kandukuri Vireshalingum Statue	17.4185798N/ 78.4801272"748E	ULB(GHMC)	One	(1) dual-gun chargers can be installed in the location
NTR Gardens PARKING EAST, TANKBUND	NTR Marg, Central Secretariat, Khairtabad, Hyderabad, Telangana 500004	Public garden (opp)	17.4754958N/ 78.4137383'23924"E	ULB(HMDA)	One	(2) dual-gun chargers can be installed in the location
LUMBINI PARK- near Secretariat parking area	Opposite Secretariat New Gate, Hussain Sagar, Khairtabad, Hyderabad, Telangana 500004	Parking	17°24'35"N / 78°28'17"E	ULB(HMDA)	One	(2) dual-gun chargers can be installed in the location
Kattamaisamma temple, RTC x roads, Vidyanagar, Hyderabad	1-8-700/24, Vidya Nagar Rd, New Nallakunta, Hyderabad, Telangana 500044	Adjacent to a famous temple	17°24'9"N / 78°30'27"E	GHMC	One	(1) dual-gun charger can be installed in the location
US.PIZZA/ Restaurant, Adikmet	B7 ,81, Osmania University Rd, Vugnyanpuri Colony, Vidya Nagar, Adikmet, Hyderabad, Telangana 500044	Adjacent to restaurant	17°24'17"N / 78°30'43"E	GHMC	One	(1) dual-gun charger can be installed in the location
Opp.Kotak Mahindra Bank, Himayatnagar, Hyderabad	3-6-140, Ground Floor, Main Road Ward, Street Number 6, Himayatnagar, Hyderabad, Telangana 500029	It is adjacent to a shopping mall	17°24'12"N / 78°28'56"E	GHMC	One	(1) dual-gun charger can be installed in the location

(1.1)(a) Location Name.	(1.5) (a) Foundation space only for charger (1m x 0.8m).	(1.5) (b) Foundation space for charger plus canopy (1.5m x 1m).	(1.5) (c) Space for installing LT panel (either on nearby wall or standing) (0.5m x 0.5m, usually has a height of 1.5m).	(1.5) (d) Space for installation of transformer, breaker (10m x 6m).	(1.6) How many 4-wheelers can park & charge at same time (include a photo if possible).	(1.7) (a) Scope for future growth in addition to chargers and land available curbside?
IMAX OPP	Yes	Yes	Yes	Yes	(2-4) 4wheelers can park for charging at same time	There is a scope for future growth in addition to chargers and land available
HITEX ARCH - HI-TECH CITY	No	Yes	Yes	Yes	(2) 4wheelers can park for charging at same time	There is no-scope for future growth in addition to charger and land available
SHILPARAMAM - OPP	No	Yes	Yes	Yes	(1) 4wheeler can be parked and charged	There is no-scope for future growth in addition to charger and land available
LODHA OFFICE - DISCOM SUBSTATION	Yes	Yes	Yes	Yes	(2) 4wheelers can park for charging at same time	There is no-scope for future growth in addition to charger and land available
JNTU KUKATPALLY - JNTU CAMPUS	Yes	No	Yes	Yes	(2) 4wheelers can park for charging at same time	There is no-scope for future growth in addition to charger and land available
NANAKRAM GUDA - GHMC COMPLEX	Yes	Yes	Yes	Yes	(4) 4wheelers can park for charging at same time	There is a scope for future growth in addition to charger and land available
TELECOM NAGAR - URDU UNIVERSITY RD	Yes	Yes	Yes	Yes	(2) 4wheelers can park for charging at same time	There is no-scope for future growth in addition to charger and land available
NEHRU - ZOO PARK	Yes	Yes	Yes	Yes	(4) 4wheelers can park for charging at same time	There is Scope for future growth in addition to charger and land available
SEC'BAD - BATA SHOWROOM	Yes	Yes	Yes	Yes	(2) 4wheelers can park for charging at same time	There is no-scope for future growth in addition to charger and land available
BEGUMPET - OPP PANTALOONS	No	Yes	Yes	Yes	(1) 4wheeler can park for charging at same time	There is no-scope for future growth in addition to charger and land available
KBR PARK - GATE-9 PARKING LOT	Yes	Yes	Yes	Yes	4(4-w) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curb side.
KBR PARK - GATE-3 PARKING LOT	Yes	Yes	Yes	Yes	4(4-w) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curb side.
KBR PARK - GATE-1 PARKING LOT	Yes	Yes	Yes	Yes	4(4-w) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curb side.
FILM NAGAR - SUBSTATION	Yes	Yes	Yes	Yes	2(4-w) can be parked for charging at same time	There is no scope for future growth in addition to chargers and land available curb side
MIND SPACE RAHEJA - IT PARK	Yes	Yes	Yes	Yes	4(4-w) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curb side.
BOTANICAL GARDENS	Yes	Yes	Yes	Yes	4(4-w) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curb side.
IMAX ADJACENT - PARKING AREA	Yes	Yes	Yes	Yes	4(4-w) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curb side.
NTR MEMORIAL - PARKING	Yes	Yes	Yes	Yes	2(4-w) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curb side.
SANJEEVAIAH PARK - NECKLACE ROAD	Yes	Yes	Yes	Yes	4(4-wheelers) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curb side.
EAT STREET - NECKLACE ROAD	Yes	Yes	Yes	Yes	4(4-wheelers) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curb side.
MOTHER THERISA STATUE	Yes	Yes	Yes	Yes	4(4-wheelers) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curb side

(1.1)(a) Location Name.	(1.5) (a) Foundation space only for charger (1m x 0.8m).	(1.5) (b) Foundation space for charger plus canopy (1.5m x 1m).	(1.5) (c) Space for installing LT panel (either on nearby wall or standing) (0.5m x 0.5m, usually has a height of 1.5m).	(1.5) (d) Space for installation of transformer, breaker (10m x 6m).	(1.6) How many 4-wheelers can park & charge at same time (include a photo if possible).	(1.7) (a) Scope for future growth in addition to chargers and land available curbside?
RAIL NILAYAM - OPP BHARAT PETROL PUMP	Yes	Yes	Yes	Yes	4 (4-w) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curbside.
METTUGUDA - PILLAR NO C-1118	Yes	Yes	Yes	Yes	1(4-w) can be parked for charging	There is no scope for future growth in addition to chargers and land available curbside.
OLD PASSPORT OFFICE - near VIJAYA HEALTH CARE	Yes	Yes	Yes	Yes	4(4-w) can be parked for charging at same time	There is a scope for future growth in addition to chargers and land available curbside.
KAMAT HOTEL - opp BLUE-B HOTEL	Yes	Yes	Yes	Yes	only 1(4-w) can be parked for charging	There is no scope for future growth in addition to either chargers or land available curbside.
SUNSHINE HOSPITAL - NEAR PARADISE	Yes	Yes	Yes	Yes	2(4-w) can be parked for charging at same time	There is a scope for future growth in addition to chargers and land available curbside.
TAJ TRI-STAR HOTEL - NEAR PARADISE	Yes	Yes	Yes	Yes	2(4-w) can be parked for charging at same time	There is no scope for future growth in addition to either chargers or land availability curbside.
RANI GUNJ - T19 TOWERS	Yes	Yes	Yes	Yes	4(4-w) can be parked for charging at same time	There is scope for future growth in addition to chargers and land available curbside.
NTR Gardens (bus stop)	Yes	Yes	Yes	Yes	2(4-w) can be parked for charging at same time	There is no scope for future growth in addition to chargers and land available curbside.
TANKBUND	Yes	No	No	Yes	2(4-wheelers) can be parked and charged at the same time	There is no scope for future growth in addition to either chargers or land availability curbside.
NTR Gardens PARKING EAST, TANKBUND	Yes	Yes	Yes	Yes	4(4-w) can be parked for charging at same time	There is scope for future growth in addition to chargers and land availability in the parking lot
LUMBINI PARK- near Secretariat parking area	Yes	Yes	Yes	Yes	4(4-w) can be parked for charging at same time	There is a scope for future growth in addition to chargers and land available curbside.
Kattamaisamma temple, RTC x roads, Vidyanagar, Hyderabad	Yes	Yes	Yes	Yes	2(4-w) can be parked for charging at same time	There is a scope for future growth in addition to chargers and land available curbside.
US.PIZZA/Restaurant, Adikmet	Yes	Yes	Yes	Yes	2(4-w) can be parked for charging at same time	There is no scope for future growth in addition to either chargers or land available curbside.
Opp.Kotak Mahindra Bank, Himayatnagar, Hyderabad	Yes	Yes	Yes	Yes	Only 2(4-wheelers) can be parked for charging at same time	There is no scope for future growth in addition to either chargers or land availability curbside.

(1.1)(a) Location Name.	(1.7) (b) The location proposed by TSREDCO is suitable for installation else, any other location found near by (specify answer & include a photo if possible).	(1.8) Remarks.	(1.9) Any physical underground (UG) infrastructure is observed with naked eye without any department assistance (include a photo if possible).	(1.10) Distance from location to pole/ transformer to pole/ pole to pole (meters) (include a photo if possible).
IMAX OPP	The proposed location is suitable for charger installation	The allotted area should be concreted to a particular level to install charging station	No physical UG infrastructure is observed with naked eye	No poles or transformer observed near by
HITEX ARCH - HI-TECH CITY	The proposed location is suitable for charger installation		No physical UG infrastructure is observed with naked eye	Transformer is exactly at the location
SHILPARAMAM - OPP	The proposed location is NOT suitable for charger installation. Location changed to 50 meters distance forward from the exact location.	The location proposed by TSREDCO is not suitable for charger installation and there is no substitute location to find around 1km of the area.	No physical UG infrastructure is observed with naked eye	Transformer is exactly at the location
LODHA OFFICE - DISCOM SUBSTATION	The proposed location is suitable for charger installation. The location is filled with trees. but there are no possibilities along 2-3kms from the proposed location.	The allotted area should be concreted to a particular level to install charging station and also cable-stead arrangement will be provided to ensure physical safety of equipment from physical damage	No physical UG infrastructure is observed with naked eye	Transformer is exactly at the location
JNTU KUKATPALLY - JNTU CAMPUS	The proposed location is suitable for charger installation		No physical UG infrastructure is observed with naked eye	There is a substation adjacent to this location
NANAKRAM GUDA - GHMC COMPLEX	The proposed location is suitable for charger installation	The allotted area should be concreted to a particular level to install charging station	No physical UG infrastructure is observed with naked eye	No poles or transformer observed near by
TELECOM NAGAR - URDU UNIVERSITY RD	The proposed location is suitable for charger installation. The area is completely filled with trees. however, there are possibilities to change location by few 100 meters	The allotted area should be concreted to a particular level to install charging station	No physical UG infrastructure is observed with naked eye	Transformer is located 20 meters distance from location
NEHRU - ZOO PARK	The proposed location is suitable for charger installation	The allotted area should be concreted to a particular level to install charging station	No physical UG infrastructure is observed with naked eye	No poles or transformer observed adjacent to location
SEC'BAD - BATA SHOWROOM	The proposed location is NOT suitable for charger installation. Location changed to 50 meters distance forward from the exact location.	(refer photo.no EESL-24_2)	No physical UG infrastructure is observed with naked eye	Transformer is exactly at the location
BEGUMPET - OPP PANTALOONS	The proposed location is suitable for charger installation		No physical UG infrastructure is observed with naked eye	No poles or transformer observed adjacent to location
KBR PARK - GATE-9 PARKING LOT	The proposed location is suitable for charger installation. The location is filled with trees however there is no scope for re-locating.	The allotted area should be concreted to a particular level to install charging station and also cable-stayed arrangement will be provided to ensure physical safety of equipment from physical damage.	UG drain pit is observed with naked eye	There are no poles or transformer observed adjacent to location. [street light poles are shown in reference photo]
KBR PARK - GATE-3 PARKING LOT	The proposed location is suitable for charger installation	The allotted area should be concreted to a particular level to install charging station	UG drain pit is observed with naked eye	There is a pole at the distance of 10 meters approximately.
KBR PARK - GATE-1 PARKING LOT	The proposed location is suitable for charger installation	The allotted area should be concreted to a particular level to install charging station	UG drain pit is observed with naked eye	The transformer is exactly at the location
FILM NAGAR - SUBSTATION	The proposed location is suitable for charger installation	The allotted area should be concreted to a particular level to install charging station	UG drain pit is observed with naked eye	The transformer is exactly at the location
MIND SPACE RAHEJA - IT PARK	The proposed location is suitable for charger installation	The allotted area should be concreted to a particular level to install charging station	UG drain pit is observed with naked eye without any department assistance	The transformer is exactly at the location
BOTANICAL GARDENS	The proposed location is suitable for charger installation	The allotted area should be concreted to a particular level to install charging station	No UG Infrastructure is observed with naked eye	There is no transformer or poles observed adjacent to the location.
IMAX ADJACENT - PARKING AREA	The proposed location is suitable for charger installation	The allotted area should be concreted to a particular level to install charging station	UG drain pit is observed with naked eye	There is no transformer or poles observed adjacent to location.
NTR MEMORIAL - PARKING	The proposed location is suitable for charger installation		No UG Infrastructure is observed with naked eye	The nearest transformer is approximately 50 meters from the proposed charging location

(1.1)(a) Location Name.	(1.7) (b) The location proposed by TSREDCO is suitable for installation else, any other location found near by (specify answer & include a photo if possible).	(1.8) Remarks.	(1.9) Any physical underground (UG) infrastructure is observed with naked eye without any department assistance (include a photo if possible).	(1.10) Distance from location to pole/ transformer to pole/ pole to pole (meters) (include a photo if possible).
SANJEEVAIAH PARK - NECKLACE ROAD	The proposed location is suitable for charger installation.		UG cables are observed with naked eye near the entry gate	The nearest pole is approximately 40 meters from the proposed charging location
EAT STREET - NECKLACE ROAD	The proposed location is suitable for installation		UG cables are observed with naked, nearby road divider	The nearest pole is approximately 30 meters from the proposed location
MOTHER THERISA STATUE	The proposed location is suitable for charger installation	Tranformer is exactly the charging point and the surface need to be concreted to the road level	No UG cables are observed. No water drain pits or manholes observed.	Transformer is exactly at charging point
RAIL NILAYAM - OPP BHARAT PETROL PUMP	The proposed location is suitable for charger installation		No UG cables are observed. No water drain pits or manholes observed.	There is no transformer or poles observed adjacent to the location.
METTUGUDA - PILLAR NO C-1118	The proposed loation is suitable for charger installation	Near Metro Pillar No c-118	No UG cables are observed. No water drain pits or manholes observed.	The nearest transformer is approximately 300 meters from the proposed location
OLD PASSPORT OFFICE - near VIJAYA HEALTH CARE	The Proposed location is suitable for charger installation		No UG cables are observed. No water drain pits or manholes observed.	The nearest transformer is approximately 200 meters from the proposed charging location
KAMAT HOTEL - opp BLUE-B HOTEL	The prposed location is suitable for charger installation	it is a curb side parking (which is not levelled), so the area which is allotted for charger installation should be concreted to road level	No UG cables are observed. No water drain pits or manholes observed.	Transformer is exactly at charging point
SUNSHINE HOSPITAL - NEAR PARADISE	The proposed location is suitable for charger installation		No UG cables are observed. No water drain pits or manholes observed.	Transformer is exactly at charging point
TAJ TRI-STAR HOTEL - NEAR PARADISE	The proposed location is suitable for charger installation		No UG cables are observed. Drain pits & manholes are observed.	The nearest transformer is approximately 100 meters from the proposed charging location
RANI GUNJ - T19 TOWERS	The proposed location is suitable for charger installation	The location need to be concreted to road level or to a particular parking area level	No UG cables are observed. No water drain pits or manholes observed.	There are few poles and transformer foundation is observed. In future, DISCOM might install a transformer as and when required.
NTR Gardens (bus stop)	The proposed location is suitable for installation of only one dual gun charger whereas TSREDCO has sanctioned/proposed two chargers.	It's a congested area, with usual than heavier traffic, given thai it's on the main road there is no scope for expansion.	No UG cables are observed. No water drain pits or manholes observed.	Transformer is exactly at charging point
TANKBUND	The proposed location is suitable for charger installation	The proposed location is more suitable for 2-wheelers charging point	No UG cables are observed. Drain pits & manholes are observed	The nearest transformer is approximately 20 meters the proposed location
NTR Gardens PARKING EAST, TANKBUND	The proposed location is suitable for charger installation		No UG cables are observed. drain pits & manholes are observed.	The nearest transformer is approximately 10 meters from the proposed location
LUMBINI PARK- near Secretariat parking area	The proposed location is suitable for charger installation		No UG cables are observed. No water drain pits or manholes observed.	The nearest pole is approximately 100 meters from the proposed charging location
Kattamaisamma temple, RTC x roads, Vidyanagar, Hyderabad	The exact proposed location is NOT suitable for charger installation and its is advisable to move it by 100 meters.	Area is too congested, installing charger at the exact proposed location might not be easily accessible hence relocating it by 100 meters is advisable.	No UG cables are observed. No water drain pits or manholes observed.	The nearest transformer is approximately 30 meters from the proposed charging location
US.PIZZA/Restaurant, Adikmet	The proposed location is suitable for charger installation		No UG cables are observed. No water drain pits or manholes observed.	The nearest pole is 100 meters from the proposed charging location
Opp.Kotak Mahindra Bank, Himayatnagar, Hyderabad	The proposed location is suitable for charger installation		No UG cables are observed. No water drain pits or manholes observed.	Exactly at the charging point there is a tranformer

(1.1)(a) Location Name.	(2.1) Traffic movements and traffic jams (include a photograph if possible).	(2.2) Major trip origin or destination site (taxi vehicles stop).	(2.3) Is the location a vehicle parking site?	(2.4) Any parking fee charged? If yes, mention the charges? Will stores validate for free parking and if yes what are the conditions, if any?
IMAX OPP	One of the busiest road and Major traffic is observed	Yes	The proposed location is in parking lot	Yes, The theatre authority might charge parking fee
HITEX ARCH - HI-TECH CITY	One of the busiest road and Major traffic is observed	Yes	The proposed location is a curb side parking	The proposed location is a free parking area.
SHILPARAMAM - OPP	One of the busiest road and Major traffic is observed	Yes	The proposed location is a curb side parking	The proposed location is a free parking area.
LODHA OFFICE - DISCOM SUBSTATION	One of the busiest road and Major traffic is observed	Yes	The proposed location is a curb side parking	The proposed location is a free parking area.
JNTU KUKATPALLY - JNTU CAMPUS	No traffic issues	Yes	The proposed location is in parking lot	The proposed location is a free parking area.
NANAKRAM GUDA - GHMC COMPLEX	One of the busiest road and Major traffic is observed	Yes	The proposed location is a curb side parking	The proposed location is a free parking area.
TELECOM NAGAR - URDU UNIVERSITY RD	No traffic issues	Yes	The proposed location is a curb side parking	The proposed location is a free parking area.
NEHRU - ZOO PARK	One of the busiest road and Major traffic is observed	Yes	The proposed location is in parking lot	The Zoo park authority might charge parking fee
SEC'BAD - BATA SHOWROOM	One of the busiest road and Major traffic is observed	Yes	The proposed location is a curb side parking	The proposed location is a free parking area.
BEGUMPET - OPP PANTALOONS	One of the busiest road and Major traffic is observed	Yes	The proposed location is a curb side parking	The proposed location is a free parking area.
KBR PARK - GATE-9 PARKING LOT	One of the busiest road and major traffic is observed	Yes	The proposed location is in a parking lot.	The (Public Garden) authority might charge parking fee.
KBR PARK - GATE-3 PARKING LOT	One of the busiest road and major traffic is observed	Yes	The proposed location is in a parking lot.	The (Public Garden) authority might charge parking fee.
KBR PARK - GATE-1 PARKING LOT	One of the busiest road and major traffic is observed	Yes	The proposed location is in a parking lot.	The Public Garden authority might charge parking fee.
FILM NAGAR - SUBSTATION	One of the busiest road and major traffic is observed	Yes	The proposed location is a Curb side parking.	The proposed location is a free parking area.
MIND SPACE RAHEJA - IT PARK	One of the busiest road and major traffic is observed	Yes	The proposed location is a Curb side parking.	The proposed location is a free parking area.
BOTANICAL GARDENS	One of the busiest road and major traffic is observed	Yes	The proposed location is in a parking lot.	The Public Garden authority might charge parking fee.
IMAX ADJACENT - PARKING AREA	One of the busiest road and major traffic is observed , however charging point is in a parking lot.	Yes	The proposed location is in a parking lot.	The Public Garden authority might charge parking fee.
NTR MEMORIAL - PARKING	One of the busiest road and major traffic is observed	Yes	The proposed location is in a parking lot.	The (Public Garden) authority might charge parking fee.
SANJEEVAIAH PARK - NECKLACE ROAD	Charging station is in a parking lot, no traffic issues observed	Yes	The proposed location is in a parking lot.	The Public Garden authority might charge parking fee.
EAT STREET - NECKLACE ROAD	No traffic issues	Yes	The proposed location is in a parking lot.	The proposed location is a free parking area.
MOTHER THERISA STATUE	No, traffic issues.	Yes	The proposed location is a curbside parking	The proposed location is a free parking area.
RAIL NILAYAM - OPP BHARAT PETROL PUMP	One of the busiest roads and major traffic is observed	Yes	The proposed location is a curbside parking.	The proposed location is a free parking area.
METTUGUDA - PILLAR NO C-1118	One of the busiest roads and major traffic is observed	Yes	The proposed location is a curbside parking	The proposed location is a free parking area.
OLD PASSPORT OFFICE - near VIJAYA HEALTH CARE	Though it is a parking lot but located on one of the busiest roads and major traffic is observed	Yes	The proposed location is in a parking lot.	The proposed location is a free parking area.
KAMAT HOTEL - opp BLUE-B HOTEL	One of the busiest roads and major traffic is observed	Yes	The proposed location is a curb side parking.	The proposed location is a free parking area.
SUNSHINE HOSPITAL - NEAR PARADISE	One of the busiest roads and major traffic is observed	Yes	The proposed location is a curb side parking.	The proposed location is a free parking area.

(1.1)(a) Location Name.	(2.1) Traffic movements and traffic jams (include a photograph if possible).	(2.2) Major trip origin or destination site (taxi vehicles stop).	(2.3) Is the location a vehicle parking site?	(2.4) Any parking fee charged? If yes, mention the charges? Will stores validate for free parking and if yes what are the conditions, if any?
TAJ TRI-STAR HOTEL - NEAR PARADISE	One of the busiest roads and major traffic is observed	Yes	The proposed location is a curb side parking and adjacent to shopping.	The charging point is adjacent to star-Hotel and shopping mall, they might charge some fee for parking
RANI GUNJ - T19 TOWERS	One of the busiest roads and major traffic is observed	Yes	The proposed location is a parking lot.	The charging point is adjacent to shopping mall, therefore the mall authority might charge some fee
NTR Gardens (bus stop)	One of the busiest roads and major traffic is observed	Yes	The proposed location is a curbside parking.	it is a free parking
TANKBUND	One of the busiest roads and major traffic is observed	Yes	The proposed location is a curbside parking.	it is a free parking
NTR Gardens PARKING EAST, TANKBUND	One of the busiest roads and major traffic is observed	Yes	The proposed location is in a parking lot.	The proposed charging location is in a parking lot, with some parking fee.
LUMBINI PARK- near Secretariat parking area	one of the busiest roads and major traffic is observed	Yes	The proposed location is in a parking lot.	It is a free parking
Kattamaisamma temple, RTC x roads, Vidyanagar, Hyderabad	One of the busiest roads and major traffic is observed	Yes	The proposed location is a curb side parking .	This charging point is adjacent to the temple. Temple committee might charge some parking fee in future.
US.PIZZA/Restaurant, Adikmet	One of the busiest roads and major traffic is observed	Yes	The proposed location is a curb side parking.	It is a free parking
Opp.Kotak Mahindra Bank, Himayatnagar, Hyderabad	One of the busiest roads and major traffic is observed	Yes	The proposed location is in a parking lot and adjacent to shopping mall.	Shopping mall authority might charge any fee for parking

(1.1)(a) Location Name.	(3.1) Confirm that the legal owner of the property possesses the right to allow you to build.	(3.2)(a) Lights/no lights, security cameras, is there anything nearby such as a wall or bushes that an assailant could hide behind, obtain crime report for the property.	(3.2)(b) Any permanent security guard available in the premises near the charging equipment (proposed place).	(3.3) Area is visible & secure?	(3.4) Mention If the charging equipment, is a sightline from the road (include a photograph).	(3.5) If the terrain is flat or slope on normal driving conditions and expertise.
IMAX OPP	Yes	Lights, Security cameras, and compound wall is observed	Yes	Yes	The charging equipment is in a parking lot	Terrain is flat on normal driving conditions
HITEX ARCH - HI-TECH CITY	Yes	Lights, Security cameras are observed	No	Yes	Yes, Sightline from the road	Terrain is flat on normal driving conditions
SHILPARAMAM - OPP	Yes	Lights and compound wall is observed	No	Yes	Yes, Sightline from the road	Terrain is flat on normal driving conditions
LODHA OFFICE - DISCOM SUBSTATION	Yes	Lights, bushes are observed	No	Yes	Yes, Sightline from the road	Terrain is flat on normal driving conditions
JNTU KUKATPALLY - JNTU CAMPUS	Yes	Lights and parking shud is observed	Yes	Yes	Yes, Sightline from the road	Terrain is flat on normal driving conditions
NANAKRAM GUDA - GHMC COMPLEX	Yes	Lights are observed	No	Yes	Yes, Sightline from the road	Terrain is flat on normal driving conditions
TELECOM NAGAR - URDU UNIVERSITY RD	Yes	Lights, Security cameras and bushes are observed	No	Yes	Yes, Sightline from the road	Terrain is flat on normal driving conditions
NEHRU - ZOO PARK	Yes	Lights, Security cameras and bushes are observed	Yes	No	It is a parking lot	Terrain is flat on normal driving conditions
SEC'BAD - BATA SHOWROOM	Yes	Lights and Security cameras are observed	No	Yes	Yes, Sightline from the road	Terrain is flat on normal driving conditions
BEGUMPET - OPP PANTALOONS	Yes	Lights and Security cameras are observed	No	Yes	Yes, Sightline from the road	Terrain is flat on normal driving conditions
KBR PARK - GATE-9 PARKING LOT	Yes	Lights, Security cameras, bushes and parking area compound wall is observed.	Yes	Yes	It is a parking lot	Terrain is flat on normal driving conditions
KBR PARK - GATE-3 PARKING LOT	Yes	Lights, Security cameras, bushes and parking area compound wall is observed.	Yes	Yes	It is a parking lot	Terrain is flat on normal driving conditions
KBR PARK - GATE-1 PARKING LOT	Yes	Lights, Security cameras, bushes and parking area compound wall is observed.	Yes	Yes	It is a parking lot	Terrain is flat on normal driving conditions
FILM NAGAR - SUBSTATION	Yes	Lights, Security cameras, bushes and substation compound wall is observed.	No	Yes	it is a designated curb side parking	Terrain is flat on normal driving conditions
MIND SPACE RAHEJA - IT PARK	Yes	Lights, Security cameras, bushes and substation compound wall is observed.	No	Yes	it is a designated curb side parking	Terrain is flat on normal driving conditions
BOTANICAL GARDENS	Yes	Lights, bushes, and parking area compound wall is observed	Yes	Yes	It is a parking lot	Terrain is flat on normal driving conditions
IMAX ADJACENT - PARKING AREA	Yes	Lights, bushes, and Parking area compound wall is observed	Yes	Yes	It is a parking lot	Terrain is flat on normal driving conditions
NTR MEMORIAL - PARKING	Yes	Lights, bushes, and Parking area compound wall is observed	Yes	Yes	It is a parking lot	Terrain is flat on normal driving conditions

(1.1)(a) Location Name.	(3.1) Confirm that the legal owner of the property possesses the right to allow you to build.	(3.2)(a) Lights/no lights, security cameras, is there anything nearby such as a wall or bushes that an assailant could hide behind, obtain crime report for the property.	(3.2)(b) Any permanent security guard available in the premises near the charging equipment (proposed place).	(3.3) Area is visible & secure?	(3.4) Mention If the charging equipment, is a sightline from the road (include a photograph).	(3.5) If the terrain is flat or slope on normal driving conditions and expertise.
SANJEEVAIAH PARK - NECKLACE ROAD	Yes	Lights and bushes are observed	Yes	Yes	It is a parking lot	Terrain is flat on normal driving conditions
EAT STREET - NECKLACE ROAD	Yes	Lights, bushes, security cams are observed	Yes	Yes	It is a parking lot	Terrain is flat on normal driving conditions
MOTHER THERISA STATUE	Yes	Lights are observed	No	Yes	it is a designated curbside parking	Terrain is flat on normal driving conditions
RAIL NILAYAM - OPP BHARAT PETROL PUMP	Yes	Lights are observed	No	Yes	it is a designated curbside parking	Terrain is flat on normal driving conditions
METTUGUDA - PILLAR NO C-1118	Yes	No lights, no bushes, no security cams are observed	No	Yes visible and secure	it is a designated curbside parking	Terrain is flat on normal driving conditions
OLD PASSPORT OFFICE - near VIJAYA HEALTH CARE	Yes	Lights and Security cams are observed	Yes	Yes visible and secure	It is a parking lot	Terrain is flat on normal driving conditions
KAMAT HOTEL - opp BLUE-B HOTEL	Yes	Lights and Security cams are observed	No	Yes visible and secure	it is a designated curbside parking	Terrain is flat on normal driving conditions
SUNSHINE HOSPITAL - NEAR PARADISE	Yes	Lights, bushes are observed	No	Yes visible and secure	it is a designated curbside parking	Terrain is flat on normal driving conditions
TAJ TRI-STAR HOTEL - NEAR PARADISE	Yes	Lights, bushes are observed	No	Yes visible and secure	it is a designated curbside parking	Terrain is flat on normal driving conditions
RANI GUNJ - T19 TOWERS	Yes	Lights are observed	Yes	Yes visible and secure	It is a curbside parking lot	Terrain is flat on normal driving conditions
NTR Gardens (bus stop)	Yes	Lights, bushes are observed	No	Yes visible and secure	It is a designated curbside parking	Terrain is flat on normal driving conditions
TANKBUND	Yes	Lights, bushes are observed	No	Yes visible and secure	It is a designated curbside parking	Terrain is flat on normal driving conditions
NTR Gardens PARKING EAST, TANKBUND	Yes	Lights, bushes and security cameras are observed	Yes	Yes visible and secure	It is a designated curbside parking	Terrain is flat on normal driving conditions
LUMBINI PARK- near Secretariat parking area	Yes	Lights, bushes and security cameras are observed	No	Yes visible and secure	it is a Parking lot	Terrain is flat on normal driving conditions
Kattamaisamma temple, RTC x roads, Vidyanagar, Hyderabad	Yes	Street Lights are available. Large/ Matured Trees are present near the property. However, it is adjacent to the main road and thus chances of attack is very less.	No	Yes visible and secure	It is a designated curbside parking	Flat and normal driving conditions
US.PIZZA/Restaurant, Adikmet	Yes	Street Lights are available, Large trees are Present, a compound wall is also observed on point	No	Yes visible and secure	It is a designated curbside parking	Flat and normal driving conditions
Opp.Kotak Mahindra Bank, Himayatnagar, Hyderabad	Yes	Lights and bushes , security cams, a building is observed behind the location	No	Yes visible and secure	It is a designated curbside parking	Slightly slope

(1.1)(a) Location Name.	(3.6) Easy access and egress (describe access from main driveway, visible from main drive aisle, close to store entrance).	(3.7) Mention the type of surface and area existing of the site.	(3.8) Mention the type of consumers the charging station will support.	(3.9) Proximity to consumer attractions (and specify).	(4) Mention if charging station will be available for consumers 24 x7.	(5) Photographs of the location from different angles. Specify the photograph details.
IMAX OPP	Easy access and egress from main drive way and visible from main drive way	Mud Surface and Ventilated Area	Commuters, Visitors, Businesses	Theatre	Yes	All snaps of the site for reference
HITEX ARCH - HI-TECH CITY	Easy access and egress from main drive way and visible from main drive way	Concrete surface and Ventilated Area	Commuters, Visitors, Businesses, Residents	Office	Yes	All snaps of the site for reference
SHILPARAMAM - OPP	Easy access and egress from main drive way and visible from main drive way	Concrete surface and Ventilated Area	Commuters, Visitors, Businesses	Office	Yes	All snaps of the site for reference
LODHA OFFICE - DISCOM SUBSTATION	Easy access and egress from main drive way and visible from main drive way	Mud Surface and Ventilated Area	Commuters, Visitors, Businesses, Residents	Office	Yes	All snaps of the site for reference
JNTU KUKATPALLY - JNTU CAMPUS	This charging station is in college campus and accessible to college authority	Concrete surface and Ventilated Area	Commuters, Visitors	College	No	All snaps of the site for reference
NANAKRAM GUDA - GHMC COMPLEX	Easy access and egress from main drive way and visible from main drive way	Mud Surface and Ventilated Area	Commuters, Visitors, Businesses, Residents	Sports complex	Yes	All snaps of the site for reference
TELECOM NAGAR - URDU UNIVERSITY RD	This charging station is adjacent to college campus and not visible from main drive aisle and accessible	Mud Surface and Ventilated Area	Commuters, Visitors	College	Yes	All snaps of the site for reference
NEHRU - ZOO PARK	Easy access and egress from main drive way and visible from main drive way	Mud Surface and Ventilated Area	Commuters, Visitors	Park	No	All snaps of the site for reference
SEC'BAD - BATA SHOWROOM	Easy access and egress from main drive way and visible from main drive way	Concrete surface and Ventilated Area	Commuters, Visitors, Businesses, Residents	Shopping mall	Yes	All snaps of the site for reference
BEGUMPET - OPP PANTALOONS	Easy access and egress from main drive way and visible from main drive way	Concreted surface and Ventilated Area	Commuters, Visitors, Businesses, Residents	Shopping mall	Yes	All snaps of the site for reference
KBR PARK - GATE-9 PARKING LOT	Visible from main drive aisle, easy to access and close to park entrance	Mud Surface and Ventilated Area	Commuters, Visitors, Businesses	Park	Yes	All snaps of the site for reference
KBR PARK - GATE-3 PARKING LOT	Visible from main drive aisle, easy to access and close to park entrance	Mud Surface and Ventilated Area	Commuters, Visitors, Businesses	Park	Yes	All snaps of the site for reference
KBR PARK - GATE-1 PARKING LOT	Visible from main drive aisle, easy to access and close to park entrance	Mud Surface and Ventilated Area	Commuters, Visitors, Businesses	Park	Yes	All snaps of the site for reference
FILM NAGAR - SUBSTATION	Visible from main drive aisle, easy to access and close to park entrance	Mud Surface and Ventilated Area	Commuters, Visitors, Residents, Businesses	Office	Yes	All snaps of the site for reference
MIND SPACE RAHEJA - IT PARK	Visible from main drive aisle, easy to access and close to park entrance	Mud Surface and Ventilated Area	Commuters, Visitors, Residents, Businesses	Office	Yes	All snaps of the site for reference
BOTANICAL GARDENS	Visible from main drive aisle, easy to access and close to park entrance	Mud Surface and Ventilated Area	Commuters, Visitors, Businesses	Park	Yes	All snaps of the site for reference
IMAX ADJACENT - PARKING AREA	Visible from main drive aisle, easy to access and close to park entrance	Mud Surface and Ventilated Area	Commuters, Visitors, Businesses	Park	Yes	All snaps of the site for reference
NTR MEMORIAL - PARKING	Visible from main drive aisle, easy to access and close to park entrance	Concrete surface and Ventilated Area	Commuters, Visitors, Businesses	Park	Yes	All snaps of the site for reference
SANJEEVAIAH PARK - NECKLACE ROAD	Visible from main drive aisle, easy to access and close to park entrance	Ventilated and Concrete surface	Commuters, Visitors, Businesses	Park	Yes	All snaps of this site for reference

(1.1)(a) Location Name.	(3.6) Easy access and egress (describe access from main driveway, visible from main drive aisle, close to store entrance).	(3.7) Mention the type of surface and area existing of the site.	(3.8) Mention the type of consumers the charging station will support.	(3.9) Proximity to consumer attractions (and specify).	(4) Mention if charging station will be available for consumers 24 x7.	(5) Photographs of the location from different angles. Specify the photograph details.
EAT STREET - NECKLACE ROAD	Visible from main drive aisle, easy to access and close to park entrance	Ventilated and Concrete surface	Commuters, Visitors, Businesses	Park	Yes	All snaps of this site for reference
MOTHER THERISA STATUE	Easy access and egress from main driveway. Visible and close to store entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Office	Yes	All snaps of this site for reference
RAIL NILAYAM - OPP BHARAT PETROL PUMP	Easy access and egress from main driveway. Visible and close to store entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Office	Yes	All snaps of this site for reference
METTUGUDA - PILLAR NO C-1118	Easy access and egress from main driveway. Visible and close to store entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Office	Yes	All snaps of this site for reference
OLD PASSPORT OFFICE - near VIJAYA HEALTH CARE	Visible from main drive aisle, easy to access and close to park entrance	Ventilated and Concrete surface	Commuters, Visitors, Businesses	Park	Yes	All snaps of this site for reference
KAMAT HOTEL - opp BLUE-B HOTEL	Easy access and egress from main driveway. Visible and close to store entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Office	Yes	All snaps of this site for reference
SUNSHINE HOSPITAL - NEAR PARADISE	Easy access and egress from main driveway. Visible and close to store entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Office	Yes	All snaps of this site for reference
TAJ TRI-STAR HOTEL - NEAR PARADISE	Easy access and egress from main driveway. Visible and close to shopping mall (store) entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Office	Yes	All snaps of this site for reference
RANI GUNJ - T19 TOWERS	Visible from main drive aisle, easy to access and close to park entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Park	Yes	All snaps of this site for reference
NTR Gardens (bus stop)	Easy access and egress from main driveway. Visible and close to store entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Office	Yes	All snaps of this site for reference
TANKBUND	Easy access and egress from main driveway. Visible and close to store entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Park, Office	Yes	All snaps of this site for reference
NTR Gardens PARKING EAST, TANKBUND	Easy access and egress from main driveway. Visible and close to store entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Park	Yes	All snaps of this site for reference
LUMBINI PARK- near Secretariat parking area	Easy access and egress from main driveway. Visible and close to store entrance	Ventilated and Concrete surface	Commuters, Visitors, Residents, Businesses	Park	Yes	All snaps of this site for reference
Kattamaisamma temple, RTC x roads, Vidyanagar, Hyderabad	Visible from main drive aisle, easy to access and Close to Restaurant entrance	Ventilated area/concrete surface	Commuters, Visitors, Residents, Businesses, Institutions	Temple	Yes	All snaps of this site for reference
US.PIZZA/Restaurant, Adikmet	Yes visible and consumer access on from main driveway	Ventilated area/concrete surface	Commuters, Visitors, Residents, Businesses, Institutions	Restaurant	Yes	All snaps of this site for reference
Opp.Kotak Mahindra Bank, Himayatnagar, Hyderabad	Yes easily accessible and egress	Ventilated area/concrete surface	Commuters, Visitors, Residents, Businesses	Malls, Offices	Yes	All snaps of this site for reference

(1.1)(a) Location Name.	(6) Site plan.	(7) Cable length/ distance from nearest transformer (meters).	(8) Cost of laying power cable from transformer to charger point (Rs.).	(9.a) Cost of electrical infrastructure 160kVA (Rs.)	(9.b) Cost of electrical infrastructure 100kVA (Rs.)	(9.c) Cost of electrical infrastructure 63kVA (Rs.)	(9.d) Cost of electrical infrastructure 25kVA (Rs.)	(10) Cost of civil works (Rs.)
IMAX OPP	(refer photo.no_REIL-23_8)	600	312630	275678	224978	177381	150813	47600
HITEX ARCH - HI-TECH CITY	(refer photo.no EESL-09_11)	100	52105	275678	224978	177381	150813	47600
SHILPARAMAM - OPP	(refer photo.no EESL-02_7)	100	52105	275678	224978	177381	150813	47600
LODHA OFFICE - DISCOM SUBSTATION	(refer photo.no NTPC-35_10)	150	78158	275678	224978	177381	150813	47600
JNTU KUKATPALLY - JNTU CAMPUS	(refer photo.no NTPC-28_10)	200	104210	275678	224978	177381	150813	47600
NANAKRAM GUDA - GHMC COMPLEX	(refer photo.no EESL-03_9)	500	260525	275678	224978	177381	150813	47600
TELECOM NAGAR - URDU UNIVERSITY RD	(refer photo.no EESL-04_9)	200	104210	275678	224978	177381	150813	47600
NEHRU - ZOO PARK	(refer photo.no NTPC-26_6)	500	260525	275678	224978	177381	150813	47600
SEC'BAD - BATA SHOWROOM	(refer photo.no EESL-24_8)	100	52105	275678	224978	177381	150813	47600
BEGUMPET - OPP PANTALOONS	(refer photo.no EESL-46_8)	200	104210	275678	224978	177381	150813	47600
KBR PARK - GATE-9 PARKING LOT	(refer photo.no EESL-39_12)	1000	521050	275678	224978	177381	150813	47600
KBR PARK - GATE-3 PARKING LOT	(refer photo.no EESL-08_10)	500	260525	275678	224978	177381	150813	47600
KBR PARK - GATE-1 PARKING LOT	(refer photo.no EESL-07_13)	100	52105	275678	224978	177381	150813	47600
FILM NAGAR - SUBSTATION	(refer photo.no NTPC-32_10)	100	52105	275678	224978	177381	150813	47600
MIND SPACE RAHEJA - IT PARK	(refer photo.no REIL-36_11)	100	52105	275678	224978	177381	150813	47600
BOTANICAL GARDENS	(refer photo.no NTPC-22_9)	500	260525	275678	224978	177381	150813	47600
IMAX ADJACENT - PARKING AREA	(refer photo.no NTPC-18_11)	500	260525	275678	224978	177381	150813	47600
NTR MEMORIAL - PARKING	(refer photo.no REIL-24_10)	300	156315	275678	224978	177381	150813	47600
SANJEEVAIAH PARK - NECKLACE ROAD	refer photo.no NTPC-11_11	700	364735	275678	224978	177381	150813	47600
EAT STREET - NECKLACE ROAD	(refer photo.no NTPC-19_11)	500	260525	275678	224978	177381	150813	47600
MOTHER THERISA STATUE	(refer photo.no EESL-32_9)	100	52105	275678	224978	177381	150813	47600
RAIL NILAYAM - OPP BHARAT PETROL PUMP	(refer photo.no EESL-30_10)	500	260525	275678	224978	177381	150813	47600
METTUGUDA - PILLAR NO C-1118	(refer photo.no EESL-29_8)	500	260525	275678	224978	177381	150813	47600
OLD PASSPORT OFFICE - near VIJAYA HEALTH CARE	(refer photo.no EESL-28_11)	600	312630	275678	224978	177381	150813	47600
KAMAT HOTEL - opp BLUE-B HOTEL	(refer photo.no EESL-27_11)	100	52105	275678	224978	177381	150813	47600
SUNSHINE HOSPITAL - NEAR PARADISE	refer photo.no EESL-26_7	100	52105	275678	224978	177381	150813	47600
TAJ TRI-STAR HOTEL - NEAR PARADISE	(refer photo.no EESL-25_9)	300	156315	275678	224978	177381	150813	47600
RANI GUNJ - T19 TOWERS	(refer photo.no EESL-23_10)	500	260525	275678	224978	177381	150813	47600

(1.1)(a) Location Name.	(6) Site plan.	(7) Cable length/ distance from nearest transformer (meters).	(8) Cost of laying power cable from transformer to charger point (Rs.).	(9.a) Cost of electrical infrastructure 160kVA (Rs.)	(9.b) Cost of electrical infrastructure 100kVA (Rs.)	(9.c) Cost of electrical infrastructure 63kVA (Rs.)	(9.d) Cost of electrical infrastructure 25kVA (Rs.)	(10) Cost of civil works (Rs.)
NTR Gardens (bus stop)	(refer photo.no EESL-06_10)	100	52105	275678	224978	177381	150813	47600
TANKBUND	(refer photo.no EESL-5_12)	500	260525	275678	224978	177381	150813	47600
NTR Gardens PARKING EAST, TANKBUND	(refer photo.no REIL-25_8)	100	52105	275678	224978	177381	150813	47600
LUMBINI PARK- near Secretariat parking area	(refer photo.no REIL-16_10)	500	260525	275678	224978	177381	150813	47600
Kattamaisamma temple, RTC x roads, Vidyanagar, Hyderabad	refer photo.no EESL-20_12	300	156315	275678	224978	177381	150813	47600
US.PIZZA/Restaurant, Adikmet	refer photo.no EESL-19_14	100	52105	275678	224978	177381	150813	47600
Opp.Kotak Mahindra Bank, Himayatnagar, Hyderabad	refer photo.no EESL-22_11	50	26053	275678	224978	177381	150813	47600

Annexure 2: Cost structures across sites.

The data in Annexure 2 corresponds to the section *Feasibility Assessment of Potential Sites, A. Cost Considerations* and *Figure 1: Cost of energizing potential charging sites in Hyderabad.*

Location Name	Cable length/ distance from nearest transformer (meters)	Cost of laying power cable from transformer to charger point* (₹)	Cost of electrical Infrastructure 100 kVA (₹)	Cost of civil works (₹)	Cost of laying power cable & electricity infrastructure of 100 kVA plus cost of civil infrastructure (₹)	Color in Figure 1
Imax Opp	50	26053	224978	47600	298631	Green
Hitex Arch	100	52105	224978	47600	324683	Green
Shilparamam - Opp	100	52105	224978	47600	324683	Green
Lodha Office – DISCOM Substation	100	52105	224978	47600	324683	Green
Jntu Kukatpally - Jntu Campus	100	52105	224978	47600	324683	Green
Nanakram Guda - Ghmc Complex	100	52105	224978	47600	324683	Green
Telecom Nagar - Urdu University Rd	100	52105	224978	47600	324683	Green
Nehru - Zoo Park	100	52105	224978	47600	324683	Green
Sec'bad - Bata Showroom	100	52105	224978	47600	324683	Green
Begumpet - Opp Pantaloons	100	52105	224978	47600	324683	Green
Kbr Park - Gate-9 Parking Lot	100	52105	224978	47600	324683	Green
Kbr Park - Gate-3 Parking Lot	100	52105	224978	47600	324683	Green
Kbr Park - Gate-1 Parking Lot	100	52105	224978	47600	324683	Green
Film Nagar - Substation	150	78158	224978	47600	350736	Green
Mind Space Raheja - It Park	200	104210	224978	47600	376788	Yellow
Botanical Gardens	200	104210	224978	47600	376788	Yellow
Imax Adjacent - Parking Area	200	104210	224978	47600	376788	Yellow
Ntr Memorial - Parking	300	156315	224978	47600	428893	Yellow
Sanjeevaiah Park– Necklace Road	300	156315	224978	47600	428893	Yellow
Eat Street - Necklace Road	300	156315	224978	47600	428893	Yellow
Mothertherisa Statue	500	260525	224978	47600	533103	Yellow
Rail Nilayam - Opp Bharat Petrol Pump	500	260525	224978	47600	533103	Yellow
Mettuguda - Pillar No C-1118	500	260525	224978	47600	533103	Yellow
Old Passport Office - Near Vijaya Health Care	500	260525	224978	47600	533103	Yellow
Kamat Hotel - Opp Blue-B Hotel	500	260525	224978	47600	533103	Yellow
Sunshine Hospital - Near Paradise	500	260525	224978	47600	533103	Yellow
Taj Tri-Star Hotel - Near Paradise	500	260525	224978	47600	533103	Yellow
Rani Gunj - T19 Towers	500	260525	224978	47600	533103	Yellow
Ntr Gardens (Bus Stop)	500	260525	224978	47600	533103	Yellow
Tankbund	500	260525	224978	47600	533103	Yellow

Location Name	Cable length/ distance from nearest transformer (meters)	Cost of laying power cable from transformer to charger point* (₹)	Cost of electrical Infrastructure 100 kVA (₹)	Cost of civil works (₹)	Cost of laying power cable & electricity infrastructure of 100 kVA plus cost of civil infrastructure (₹)	Color in Figure 1
Ntr Gardens Parking East, Tankbund	500	260525	224978	47600	533103	Yellow
Lumbini Park- Near Secretariat Parking Area	600	312630	224978	47600	585208	Red
Kattamaisamma Temple, Rtc X Roads, Vidyanagar, Hyderabad	600	312630	224978	47600	585208	Red
Us.Pizza/Restaurant, Adikmet	700	364735	224978	47600	637313	Red
Opp.Kotak Mahindra Bank, Himayatnagar, Hyderabad	1000	521050	224978	47600	793628	Red

*The cost (₹) of laying the power cable from the transformer to the charger point are based on approximations with the power utility.

Annexure 3: Accessibility scores across sites.

The data in Annexure 3 corresponds to section *Feasibility Assessment of Potential Sites, B. Easier Access and Proximity to Amenities* and *Figure 2: Accessibility score for potential sites in Hyderabad.*

Total accessibility scores can range from 0 to 100. Sub-scores for six accessibility considerations (easy access, fee score, surface area score, terrain condition score, 24 x 7 availability score, nearby utilities score) are summed for a site's final total accessibility score.

The six accessibility considerations were assigned weightage: (i) proximity to consumer amenities where users can spend time while their vehicle is getting charged (30 percent); (ii) easier entry and exit from the site (two-way access) (20 percent); (iii) type of surface and area (whether it is well concreted or a mud road, whether it is ventilated or not; any issue of water logging is reported or not) (20 percent); (iv) whether charging site can be accessed 24 x 7 (10 percent); (v) whether charging site can be accessed for free or it involves a fee (10 percent); (vi) If the terrain is flat or slope on normal driving conditions and expertise (e.g., steep slopes would be a hindrance for buses and multi-use vehicles) (10 percent).

Location Name	Easy access score: Easy access and egress (describe access from main driveway, visible from main drive aisle, close to store entrance.) (20%)	Fee score: Any parking fee charged? or is it for free? (10%)	Surface area score: Mention the type of surface and area existing of the site: (20%)	Terrain score: If the terrain is flat or slope on normal driving conditions and expertise (10%)	24x7 availability score: Mention if either the charging station will be available for consumers (10%)	Nearby utilities Proximity to consumer attractions. (specify which). (30%)	Easy access score (0-20)	Fee score (0-10)	Surface area score (0-20)	Terrain condition score (0-10)	24x7 availability score (0-10)	Nearby utilities score (0-30)	Total accessibility score [0-100]
Imax Opp	Yes, easily accessible and egress	Shopping mall authority might charge any fee for parking	Ventilated area/ concrete surface	Slightly slope	Yes	Malls, Offices	20	0	20	5	10	30	85
Hiltex Arch	Easy access and egress from main driveway and visible from main driveway	The proposed location is a free parking area.	Concrete surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Office	20	10	20	10	10	30	100
Shilparamam - Opp	Easy access and egress from main driveway and visible from main driveway	The proposed location is a free parking area.	Concrete surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Office	20	10	20	10	10	30	100
Lodha Office - DISCOM Sub-station	Easy access and egress from main driveway and visible from main driveway	The proposed location is a free parking area.	Concrete surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Shopping mall	20	10	20	10	10	30	100
Jntu Kukatapally - Jntu Campus	Visible from main drive aisle, easy to access and close to park entrance	The Public Garden authority might charge parking fee.	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Park	20	0	0	10	10	20	60
Nanakram Guda - Ghmc Complex	Visible from main drive aisle, easy to access and close to park entrance	The proposed location is a free parking area.	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Office	20	10	0	10	10	30	80
Telecom Nagar - Urdu University Rd	Visible from main drive aisle, easy to access and close to park entrance	The proposed location is a free parking area.	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Office	20	10	0	10	10	30	80
Nehru - Zoo Park	Easy access and egress from main driveway. Visible and close to store entrance	The proposed location is a free parking area.	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Office	20	10	10	10	10	30	90
Sec'bad - Bata Showroom	Easy access and egress from main driveway. Visible and close to store entrance	The proposed location is a free parking area.	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Office	20	10	10	10	10	30	90
Begumpet - Opp Pantaloons	Easy access and egress from main driveway. Visible and close to store entrance	The proposed location is a free parking area.	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Office	20	10	10	10	10	30	90

Location Name	Easy access score: Easy access and egress (describe access from main driveway, visible from main drive aisle, close to store entrance.) (20%)	Fee score: Any parking fee charged? or is it for free? (10%)	Surface area score: Mention the type of surface and area existing of the site: (20%)	Terrain score: If the terrain is flat or slope on normal driving conditions and expertise (10%)	24x7 availability score: Mention if either the charging station will be available for consumers (10%)	Nearby utilities score: Proximity to consumer attractions. (specify which). (30%)	Easy access score [0-20]	Fee score [0-10]	Surface area score [0-20]	Terrain condition score [0-10]	24x7 availability score [0-10]	Nearby utilities score [0-30]	Total accessibility score [0-100]
Kbr Park - Gate-9 Parking Lot	Easy access and egress from main driveway. Visible and close to store entrance	It is a free parking	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Office	20	10	10	10	10	20	80
Kbr Park - Gate-3 Parking Lot	Easy access and egress from main driveway. Visible and close to store entrance	The proposed charging location is in a parking lot, with some parking fee.	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Park	20	0	10	10	10	20	70
Kbr Park - Gate-1 Parking Lot	Yes, visible and consumer access on from main driveway	It is a free parking	Ventilated area/ concrete surface	Flat and normal driving conditions	Yes	Restaurant	20	10	10	10	10	30	90
Film Nagar - Sub-station	Easy access and egress from main driveway and visible from main driveway	The proposed location is a free parking area.	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Office	20	10	0	10	10	30	80
Mind Space Raheja - It Park	This charging station is in college campus and accessible to college authority	The proposed location is a free parking area.	Concrete surface and Ventilated Area	Terrain is flat on normal driving conditions	No	College	20	10	10	10	0	20	70
Botanical Gardens	This charging station is adjacent to college campus and not visible from main drive aisle and accessible	The proposed location is a free parking area.	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	College	20	10	0	10	10	20	70
Imax Adjacent - Parking Area	Easy access and egress from main driveway and visible from main driveway	The proposed location is a free parking area.	Concreted surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Shopping mall	20	10	10	10	10	30	90
Ntr Memorial - Parking	Visible from main drive aisle, easy to access and close to park entrance	The (Public Garden) authority might charge parking fee.	Concrete surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Park	20	0	10	10	10	20	70
Sanjeevaiah Park- Necklace Road	Easy access and egress from main driveway. Visible and close to shopping mall (store) entrance	The charging point is adjacent to star-Hotel and shopping mall, they might charge some fee for parking	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Office	20	10	10	10	10	30	90

Location Name	Easy access score: Easy access and egress (describe access from main driveway, visible from main drive aisle, close to store entrance.) (20%)	Fee score: Any parking fee charged? or is it for free? (10%)	Surface area score: Mention the type of surface and area existing of the site: (20%)	Terrain score: If the terrain is flat or slope on normal driving conditions and expertise (10%)	24x7 availability score: Mention if either the charging station will be available for consumers (10%)	Nearby utilities Proximity to consumer attractions. (specify which). (30%)	Easy access score [0-20]	Fee score [0-10]	Surface area score [0-20]	Terrain condition score [0-10]	24x7 availability score [0-10]	Nearby utilities score [0-30]	Total accessibility score [0-100]
Eat Street - Necklace Road	Visible from main drive aisle, easy to access and Close to Restaurant entrance	This charging point is adjacent to the temple. Temple committee might charge some parking fee in future.	Ventilated area/ concrete surface	Flat and normal driving conditions	Yes	Temple	20	10	10	10	10	20	80
Mothertherisa Statue	Easy access and egress from main driveway and visible from main driveway	The proposed location is a free parking area.	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Sports complex	20	10	0	10	10	20	70
Rail Nilayam - Opp Bharat Petrol Pump	Easy access and egress from main driveway and visible from main driveway	The Zoo park authority might charge parking fee	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	No	Park	20	0	0	10	0	20	50
Mettuguda - Pillar No C-1118	Visible from main drive aisle, easy to access and close to park entrance	The (Public Garden) authority might charge parking fee.	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Park	20	0	0	10	10	20	60
Old Passport Office - Near Vijaya Health Care	Visible from main drive aisle, easy to access and close to park entrance	The Public Garden authority might charge parking fee.	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Park	20	0	0	10	10	20	60
Kamat Hotel - Opp Blue-B Hotel	Visible from main drive aisle, easy to access and close to park entrance	The Public Garden authority might charge parking fee.	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Park	20	0	0	10	10	20	60
Sunshine Hospital - Near Paradise	Visible from main drive aisle, easy to access and close to park entrance	The proposed location is a free parking area.	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Park	20	10	10	10	10	20	80
Taj Tri-Star Hotel - Near Paradise	Easy access and egress from main driveway. Visible and close to store entrance	The proposed location is a free parking area.	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Office	20	10	10	10	10	20	80
Rani Gunj - T19 Towers	Easy access and egress from main driveway. Visible and close to store entrance	The proposed location is a free parking area.	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Office	20	10	10	10	10	20	80

Location Name	Easy access score: Easy access and egress (describe access from main driveway, visible from main drive aisle, close to store entrance.) (20%)	Fee score: Any parking fee charged? or is it for free? (10%)	Surface area score: Mention the type of surface and area existing of the site: (20%)	Terrain score: If the terrain is flat or slope on normal driving conditions and expertise (10%)	24x7 availability score: Mention if either the charging station will be available for consumers 24x7 (10%)	Nearby utilities Proximity to consumer attractions, (specify which). (30%)	Easy access score [0-20]	Fee score [0-10]	Surface area score [0-20]	Terrain condition score [0-10]	24x7 availability score [0-10]	Nearby utilities score [0-30]	Total accessibility score [0-100]
NTR Gardens (Bus Stop)	Visible from main drive aisle, easy to access and close to park entrance	The charging point is adjacent to shopping mall; therefore, the mall authority might charge some fee.	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Park	20	10	10	10	10	20	80
Tankbund	Easy access and egress from main driveway. Visible and close to store entrance	It is a free parking	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Park, Office	20	10	10	10	10	30	90
Ntr Gardens Parking East, Tankbund	Easy access and egress from main driveway. Visible and close to store entrance	It is a free parking	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Park	20	10	10	10	10	20	80
Lumbini Park - Near Secretariat Parking Area	Easy access and egress from main driveway and visible from main driveway	Yes, The theatre authority might charge parking fee	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Theatre	20	0	0	10	10	30	70
Kattamaisamma Temple, RTC X Roads, Vidyanagar, Hyderabad	Visible from main drive aisle, easy to access and close to park entrance	The proposed location is a free parking area.	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Park	20	10	10	10	10	20	80
Us.Pizza/Restaurant, Adikmet	Visible from main drive aisle, easy to access and close to park entrance	The Public Garden authority might charge parking fee.	Ventilated and Concrete surface	Terrain is flat on normal driving conditions	Yes	Park	20	0	10	10	10	20	70
Opp.Kotak Mahindra Bank, Himayatnagar, Hyderabad	Visible from main drive aisle, easy to access and close to park entrance	The (Public Garden) authority might charge parking fee.	Mud Surface and Ventilated Area	Terrain is flat on normal driving conditions	Yes	Park	20	0	0	10	10	20	60



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