



NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road, Transport & Highways)
Government of India

SITE DATA REPORT

For

**Construction and Operation of Wayside Amenities
at Km 19+600 (on both sides RHS and LHS) of
NH-7, near Dongargaon Village, Nagpur-
Pandharkawada Section in the state of Maharashtra
under BOT Mode (Build, Operate, Transfer)
(Package No: NHAI/WA/01/2016)**

June, 2016

G-5 & 6, Sector-10, Dwarka, New Delhi - 110 075

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1. Site Report

Standard Data Collection Form

Setting Up and Operations of Way-side Amenities on National Highways in India

Contacts/Site Details:

State	Maharashtra	PIU / Other Office	NHAI RO, Nagpur
Project Name/ NHAI, Regional Office:	NHAI, Regional Office: Nagpur Plot No. 159, Bungalow No. 2, Shubhankar Apartments, Ambazari Hill Top, Ram Nagar, Nagpur -440033. Tel: 0712-2249589/2249316	Contact person (Designation)	Mr. M. Chandrasekhar Regional Officer/CGM (M: 91 9099667685) Mr. Shriram Mishra Project Director (PD) (M: 91 9545556488)
Site Name	Km 19+600 on Nagpur- Hyderabad Section of NH-7 near Dongargaon	Contact Phone No.	0712-2249589/2249316
Coordinator Name / Phone No.	Mr. Umesh B.S. Bridge & Structural Engineer (M: 91 9823179165)	Date of Visit	03/03/2015

Survey Check List (Part - A)

S. No.	Salient Features to be noted	Remarks (attach separate sheet if space is insufficient)
1.	Location details (<i>Attach Map</i>)	Km 19+600 on Nagpur- Hyderabad Section of NH-7 near Dongargaon
2.	Traffic volumes, pattern and mix (<i>Traffic data to be collected</i>)	31200 PCU (Approximate)/day Car, Jeep, Van SUV and Bus about 12000 PCU
3.	Nearby Tourist spots / Industrial / Residential developments (<i>Show in the map</i>)	Butibori MIDC- Phase1 at a distance on 7 km. Proposed Butibori MIDC- Phase 2 at distance of 16 km. Multi-modal International Cargo Hub and Airport at Nagpur (MIHAN) and SEZ at

		<p>about 10 km.</p> <p>Many Container/bulk handling and logistic facilities are coming up in stretch at distance of 15 km.</p> <p>Residential and commercial development along the stretch of the highway.</p>
4.	Existing facilities on select stretch including those being developed by private entrepreneurs <i>(Show in the map)</i>	Reliance A1 plaza (managed by private operator) with limited facilities at about 1 km
5.	Availability of local conveyance	Local buses/City bus services and Private Van/Taxi services available.
6.	Land records and availability analysis	The land is with NHA1
7.	Engineering feasibility <i>(availability of existing service road)</i> Safety & legal feasibility <i>(Development Control Rules, if available)</i>	This is old location of Toll plaza and approaches and access is already available.
8.	Proximity to junctions, merging/diverging roads, median openings <i>(Show in the map)</i>	<p>This being a previous Toll plaza location there is no median.</p> <p>Wardha SH road junction 9 km</p> <p>Major road junction At Butibori (7km)</p> <p>Minor junction at Village Dongargaon (700mts)</p>
9.	High frequency passenger movement / Bus routes and potential stoppages <i>(Collect data)</i>	<p>Many luxury bus services to Hyderabad, Chandrapur, Wardha and Yavatmal and other southern districts/towns.</p> <p>Bus stops at Dongargaon, Butibori</p>
10.	Any other relevant information / analysis such as <ul style="list-style-type: none"> • Photograph • Video • Attach Map / Google Map 	Enclosed herewith

Survey Check List (Part - B)

S. No.	Salient Features to be noted	Remarks (attach separate sheet if space is insufficient)
1.	Existing level of the site with respect to the main road	Almost level with the main road. Both sides are easily accessible from the main road/highway.
2.	Adjacent natural drains like Nallas, rivers, lakes etc., and their flow direction (<i>Show in the site plan</i>)	The area is fully planned and developed considering local drainage.
3.	North point (<i>Show in the site plan</i>)	Shown in the Location Map
4.	Conditions of the front side drain or culvert i.e. structure of drain (<i>brick work or hume pipe</i>) covered or not covered	Hume pipe culvert at necessary locations
5.	In case of new culvert suggest the vent size.	1 X 1m dia pipes
6.	Nearest culvert detail	At Km 19+373- 1 X 1.2 m dia At Km 20+992 – 1 X 1 m dia
7.	Boundary details of highway (ROW) at the proposed site	Highway ROW 45 mts.
8.	Existing condition of the well, if found inside the site area and its location	No open wells
9.	Existing location of bore-well, if any give the full details like dia, depth and yield	One bore well exists within 6" dia about 300 ft deep with 1" yield
10.	Water table (<i>from the nearest well</i>)	
11.	Availability of EB Electrical supply & nearest EB post (LT / HT) details & location of EB post with distance marked in survey report	Permanent Electric supply facility is available near to main building.
12.	Details of existing compound wall /Fencing details, if available	Compound wall to Main administrative building block exists.

S. No.	Salient Features to be noted	Remarks (attach separate sheet if space is insufficient)
13.	Surrounding site level details	Land is Plane and level
14.	Nearest building details (<i>Framed / Load bearing</i>)	No buildings nearby except structures of toll plaza as per the Drawing attached
15.	Any important explosive type (<i>like Kitchen, Kiln, etc.</i>) Please note down location & distance from the site	No
16.	Nearest Petrol bunk name, location and distance from RO within 1.50km Radius	Reliance A1 plaza, BPCL and IOC petrol stations
17.	Any Interjection / Junction (like NH, SH, MDR, DR & Village road) is available please indicate distance from RO and road name within 1.50km Radius	No
18.	Nearest Railway station	Butibori
19.	Nearest Police station	Butibori
20.	Nearest Fire station	Butibori
21.	Survey No. & other details	NA
22.	General Soil condition	Black Cotton Soil

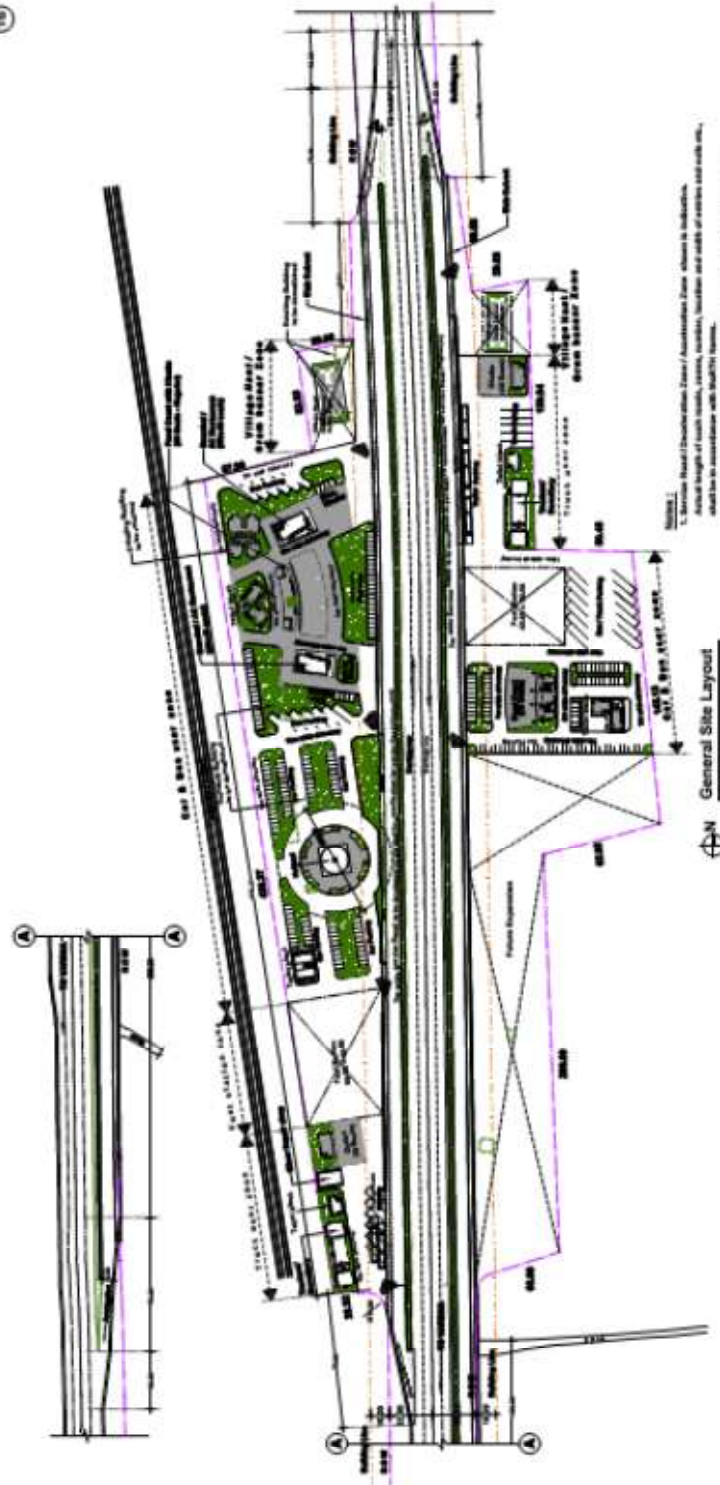
S. No.	Salient Features to be noted	Remarks (attach separate sheet if space is insufficient)
23.	Topo plan (100m Radius) - Observe any important	
24.	Location of site with reference to road (indicate service road, if any)	Drawing attached
25.	Existing structures in and around the site	Existing structures within the site is shown in the drawing. No structures around the site nearby.
26.	Site Address	At Post Dongargaon (Dist: Nagpur)
27.	Site Plan (Attach, if any)	Attached.

Signature: Ravi Bankar

Date: 03/03/2015

List of Enclosures / Documents collected:

1. Location Maps
2. Photographs
3. Key Plans
4. Site Potential & Land Details



NOTES:
 1. Service Road/Shoulder Zone / Accretion Zone shown in indication.
 2. Actual length of each reach, system, structure, location and width of works and work area, shall be in accordance with reality.
 3. Service Road/Shoulder Zone / Accretion Zone / Buffer Zone (if applicable) shall be indicated in the margin of the drawings.

Location:
 at Km 13+500 (on both sides RHS + LHS) of NH-7, near Dongargaon Village, Nagpur - Pandharkanda Section

Scale: 1:1000

Project Data

Sl. No.	Particulars	Quantity	Unit
1	Area of Right of Way	10000	Sq. Mts.
2	Area of Right of Way	10000	Sq. Mts.
3	Area of Right of Way	10000	Sq. Mts.
4	Area of Right of Way	10000	Sq. Mts.
5	Area of Right of Way	10000	Sq. Mts.
6	Area of Right of Way	10000	Sq. Mts.
7	Area of Right of Way	10000	Sq. Mts.
8	Area of Right of Way	10000	Sq. Mts.
9	Area of Right of Way	10000	Sq. Mts.
10	Area of Right of Way	10000	Sq. Mts.

General Site Layout

Sl. No.	Particulars	Quantity	Unit
1	Area of Right of Way	10000	Sq. Mts.
2	Area of Right of Way	10000	Sq. Mts.
3	Area of Right of Way	10000	Sq. Mts.
4	Area of Right of Way	10000	Sq. Mts.
5	Area of Right of Way	10000	Sq. Mts.
6	Area of Right of Way	10000	Sq. Mts.
7	Area of Right of Way	10000	Sq. Mts.
8	Area of Right of Way	10000	Sq. Mts.
9	Area of Right of Way	10000	Sq. Mts.
10	Area of Right of Way	10000	Sq. Mts.

Revisions

No.	Description	Date
1	As per approved	10/10/2024
2	As per approved	10/10/2024
3	As per approved	10/10/2024
4	As per approved	10/10/2024
5	As per approved	10/10/2024
6	As per approved	10/10/2024
7	As per approved	10/10/2024
8	As per approved	10/10/2024
9	As per approved	10/10/2024
10	As per approved	10/10/2024

Setting up and Operations of Utility-side Assemblies on National Highways in India

General Site Layout

Scale: 1:1000

2. Google Map



Aerial MAP

3. Site of the Project

Site of the Project

1. The Site

- 1.1 The site(s) shall be as per the list described in Annex-1 of this Schedule-A. The area of the site indicated is outside the ROW of 45m or 60m (as the case may be). The site for the purpose of this agreement shall also include areas for approach roads, acceleration zone, deceleration zone, buffer zone, culverts etc. required for linking to the main carriageway of the Highway.
- 1.2 An inventory of the Site including the land, buildings, structures, road works, trees and any other immovable property on, or attached to, the Site shall be prepared jointly by the Authority Representative and the Concessionaire, and such inventory shall form part of the memorandum referred to in Clause 10.3.1 of the Agreement.

1. Site for Wayside Amenities

NHAI intends to provide “WAYSIDE AMENITIES” as described hereunder at the following location along the National Highways.

Sl. No.	State	Section	Site locations (Chainage, nearby place/city)	National Highway	Area of Land (in Ha.) <i>As per drawing Enclosed in the Bid Document and as and where basis.</i>	Total Project Cost (TPC) (in Rs. Lakhs) (excluding cost of land and fuel station)
1	Maharashtra	Nagpur-Pandharkawada Section	<i>at Km 19+600 (on both sides RHS and LHS) of NH-7, near Dongargaon Village, Nagpur-Pandharkawada Section in the state of Maharashtra</i>	NH-7	60893 Sqm (6.08 Ha)	2466.68

Note: The list is indicative only and is subject to correction for any factual or other errors. The Bidders must themselves verify sites and other details as needed for bidding.

4. Development of Wayside Amenities

Development of Wayside Amenities

1. Project Facilities

Minimum list of Project facilities to be constructed is as follows.

Sl. No.	Description	Facility		Facility	
		(RHS)	Area in Sq. Mts.	(LHS)	Area in Sq. Mts.
1	Food Court - (As shown in the drawings) - Capacity as indicated in the Site Specific drawings.	90 Seats	-	60 Seats	-
	a. Kiosks	7 Nos.	225.83	3 Nos.	164.34
	b. Rooms (Motel)	3 Nos.	228.68	-	-
	c. Covered seating area	1 No	494.18	1 No	364.45
2	AC Restaurants - As shown in the Site Specific drawings.				
	a. AC Restaurants 1	40 Seats	120.01	-	-
	b. AC Restaurants 2	40 Seats	120.01	-	-
3	Dhaba - As shown in the Site Specific drawings.	40 Seats		40 Seats	
	a. Kiosks	1 No	74.43	1 No	74.43
	b. Covered seating area	1 No	162.44	1 No	162.44
4	Dormitory - As shown in the Site Specific drawings.	1 No	244.72	1 No	244.72
5	Toilet Blocks - As shown in the Site Specific drawings				
	a. Toilet Block for Food Court	1 No	105.30	1 No	105.30
	b. Toilet Block for Dhaba	1 No	54.40	1 No	54.40
	c. Toilet Block for Parking Area	1 No	119.66	-	-
6	Minor Repair shop - As shown in the Site Specific drawings	1 No	85.00	-	-
7	Kiosks for misc. items - As shown in the Site Specific drawings	Type 1 & 2	104.52	-	-
8	Village Haat (Haat Structures / Shed) - As shown in the Site Specific drawings	✓	260.01	✓	260.01
	a. Toilet Block for Village Haat / Gram Bazaar	✓	15.00	✓	15.00

2. Specifications and Standards

The Wayside Amenities shall be constructed in conformity with the Specifications and Standards specified in Annex-I of Schedule-D.

3. Scope of Work

The project scope would include the following major activities:

I. Construction of Wayside Amenities

- a) Geo-technical investigation
- b) Original Proposal - Conceptual, site specific design and engineering drawings of the Wayside Amenities should be as provided by NHAI. The Concessionaire shall not deviate from the conceptual designs, site specific drawings and engineering drawings, the Concessionaire will be allowed to modify the site specific layout without any change of areas such as buildings, driveways, landscape areas, parking areas and without affecting the Estimated Total Project Cost.
- c) Future Expansion Area – Designs, Site specific drawings and engineering drawings of the future expansion area to be done by concessionaire as approved by the Authority.
- d) Review of all bid drawings, carrying out necessary revisions or additions, preparation of all balance engineering drawings as required for proper execution and completion of the project as envisaged with the approval of the Authority.
- e) Site Development, Procurement etc. for construction of Wayside Amenities as per Design, Codes, Drawings, Standards and Technical Specifications. The Wayside Amenities include but not limited to Food court, restaurants and Dhaba, roads / driveway, parking & pathway, roads marking and rumble strips / speed breakers for parking areas, sewer line, water supply, storm water drain, street lighting with HPSV lamps / LED lamps, underground sump, fire fighting etc., signages, landscaping, horticulture operations / arboriculture etc., RO water plant, rainwater harvesting, provision for tube wells & pumps including water tank, electrical substation / transformer, trenches / ducts for UG cables / pipeline, DG set, shading device, children play area, outdoor furniture, digital display wall system, solar power panel, provision for helipad, high mast lamp and hoarding board etc. Actual project facilities to be provided in a particular location will vary.
- f) Construction of modern user and environment friendly Wayside Amenities as per the Conceptual design/drawings and specifications approved by NHAI.

The cost of any improvements to the proposed facility in addition to the specified conditions, specifications and drawings will be borne by the Concessionaire.
- g) Operation and Maintenance of Wayside Amenities during Concession period as specified in Article 17 of Draft Concession Agreement.
- h) The concession period is for 29 years including period of construction. The Concessionaire reserves the first right of refusal for extending the concession

agreement for another 29 years after the completion of the first 29 years.

For avoidance of doubt, it is further clarified that the Concessionaire shall have the first right of refusal to accept or refuse another term of 29 years concession on conclusion of the first concession period. However such extension, shall be on reasonable terms and conditions based on the parameters of the first concession period of 29 years, to be negotiated by the Authority with the Concessionaire, six months prior to the conclusion of the first concession agreement.

- i) To raise and realize revenues as per Article 27, from the assets created during concession period and to pay Concession Fee and Additional Concession Fee (Premium) to NHAI.
- j) The space earmarked for future expansion if any, can be utilized for further development by the concessionaire at their own cost after successful commissioning and operation of the wayside amenities with prior approval from the Authority. The concessionaire can realize revenue generated from such future development.
- k) Bidders will be required to quote the Concession Fee for first year of operation which will be increased @ 5% p.a. and shall be payable in advance within 7 days of the beginning of Financial Year. The Concession Fee for the sixth year from the date of COD shall be increased by 25 % as because the Concessionaire will be allowed to exploit the un-utilized area earmarked for future expansion for sixth year onwards from the date of COD.

For avoidance of doubt, if the Concession Fee is Rs. 100000 in the first year, the same shall be Rs. 105000 in the second year, Rs. 110250 in the Third year, Rs. 115763 in Fourth year, Rs. 125151 in fifth year. However in the sixth year it shall be Rs. 159535 and in the seventh year it shall be Rs. 167512 likewise.

- l) The land earmarked as future expansion shall, in conformity with Applicable Laws and in conformity with all conditions specified in this document, be utilised by the Concessionaire for provision of such wayside amenities which may include public toilets, rest areas, cafeteria, hotels, motels, restaurants, service stations, hospitals, trauma centers, shopping complexes, office complexes, residential premises, associates services and other amenities or facilities (the “Wayside Amenities”) for Users of the Project Highway and the local population. The classification of Type-I or Type-II or Type-III is not applicable for future expansion and concessionaire is free to develop the land earmarked for future expansion as stated above and in accordance with the Schedule - X.
- m) **Fuelling Station:** The concessionaire may establish the fuel station in the area earmarked for such fuel station subject to their fulfilling the required eligibility criteria as determined by the concerned Oil Marketing Companies (OMCs) and grant of such approvals for setting up of a fuel station. For the avoidance of doubt, the total project cost does not include the cost of fuel station. Concessionaire can raise and realize Revenue from Fuel station as per standard industry practices. The concessionaire will be permitted to

commission the fuel station only after commissioning of Toilet blocks and one of Restaurant or Dhaba or Food Court.

- n) **Village Haat/Gram Bazaar:** The Concessionaire after completion of construction shall operate and maintain the Gram Bazaar. However, unlike other facilities, the mode of operations, the charges or daily rentals to be levied to the occupants or tenants of Gram Bazaar, etc., shall be determined by the Concessionaire in consultation with the Authority. For avoidance of doubt it is clarified that the Artisans/ Farmers/Local Vegetable & Fruit Vendors shall be provided the space on rotational basis as far as possible.
- o) During the period from the date of the Concession Agreement until the Appointed Date (**the “Development Period”**), the Concessionaire shall maintain the existing Site including periphery roads inside the compound Site, in such a manner so as to ensure its maintenance and safety and in the event of any material deterioration or damage other than normal wear and tear, the Concessionaire shall undertake repair thereof. The Concessionaire shall make necessary provisions for inclusion of costs related to maintenance during the Development Period in its Bid.
- p) Transfer of all the Project Assets to NHAI at the end of Concession period

II. Operation and Maintenance

- a) This includes Wayside Amenities operations i.e. regular cleaning of the surrounding areas, functioning of user amenities, availability of basic infrastructure requirements such as electricity, proper drainage, waste removal, etc. and any other essential task/activities as specified in Article 17 of Draft Concession Agreement.

To raise and realize revenues from the assets created during concession period and to pay concession fee to NHAI.

The Concessionaire shall take all necessary actions to prevent the sale and consumption of liquor / alcohol by any person and prevent dance events inside the premises.

- b) It will include routine and periodic maintenance works in the Wayside Amenities and as specified in Schedule K of the Draft Concession Agreement
- c) The bidder shall be solely responsible for employing adequate uniformed staff to perform the obligations as provided in concession agreement. The successful bidder shall be solely responsible for complying with all the applicable laws as well as for paying the salaries, wages, dues, PF & ESI etc. of such employees. No such employee shall be deemed to be employee of NHAI for any purpose whatsoever.

5. Project Facilities for Wayside Amenities

Project Facilities for Wayside Amenities

Project Facilities

The Concessionaire shall construct the Project Facilities described in this Annex-I to form part of the Wayside Amenities. The Project Facilities shall include:

Project Facilities and Construction Activities:-

Location: at Km 19+600 (on both sides RHS and LHS) of NH-7, near Dongargaon Village, Nagpur-Pandharkawada Section in the state of Maharashtra

Sl. No.	Description	Facilities	
		RHS	LHS
I (a)	Site Development		
	i. Site clearances & Area development		
	a. Site Clearance, Leveling, Cutting & Filling of Soil (Total Plot Area) (for level ground)	✓	✓
	ii. a. Cutting of Trees - As required to match site Specific Layouts.	✓	✓
	b. Dismantling / Demolishing including disposal	✓	✓
	c. Rerouting of EB, Water & Telephone Services [Above / Below Ground] – including local liasioning charges	✓	✓
	d. Additional Filling/Cutting - To match levels indicated in the Site Specifications Drawings.	x	x
	iii. 1. Construction of Retaining wall / Slope Stability Arrangements	x	x
	2. Compound Wall, Fencing, Gate, Culvert & Kerbwall, Deceleration Zone, Acceleration Zone, Buffer Zone and Service / Access Road.	✓	✓
	a. Compound Wall	✓	✓
	b. 1. Chain link Fencing with Gate	✓	✓
	b. 2. Barbed Wire Fencing	x	x
	c. Gate - Shall be provided for Entrance to Children Play Area	✓	✓
	d. RCC Slab / Box Culvert	✓	✓
	e. Kerbwall - All along the Driveway, Parking Areas, Landscaping and Pathways	✓	✓

Sl. No.	Description	Facilities	
		RHS	LHS
	f. Bollards To be provided in front of Dhaba / Food Court / Restaurants / Kiosks	✓	✓
	g. Access Road (outside the premises) / Approach road	x	x
	h. Deceleration Zone (outside the premises)	x	x
	i. Acceleration Zone (outside the premises)	x	x
	j. Buffer Zone	x	x
	k. Service Road (outside the premises) / Exit Road / Existing Service Roads including necessary crash barriers as per codes	x	x
I b.	Services:-		
	i. Roads & Pathway as per MoRTH Specifications		
	a. Roads / Driveway, Parking & Path way (BT / CC Paver Block): (All Driveway / Roads / Parking facing Dhaba / Food Court / Restaurants / and Kiosks within the premises shall be of CC Paver Blocks. All other areas inside the premises and approach roads outside premises shall be of BT.	✓	✓
	b. Roads Marking and Rumble Strips, Speed Breakers (Readymade speed breakers with reflective arrow) for parking area.	✓	✓
	ii. Sewer Line including Chambers, Manholes, Gully Trap, etc.	✓	✓
	iii. Water supply & Distribution System	✓	✓
	iv. Storm water drain with Gratings / Cover Slab	✓	✓
	v. External Electrical Works Including Street Light	✓	✓
	vi. a. Underground Sump / RCC water Retaining Structures	✓	✓
	b. Fire Fighting		
	vii. Signages:-	✓	✓
	a. External Signages (Building Signages, Parking Signages, Prohibition Signages, Safety Signages, etc)	✓	✓
	b. Internal Signages	✓	✓
	c. Neon Signages	✓	✓

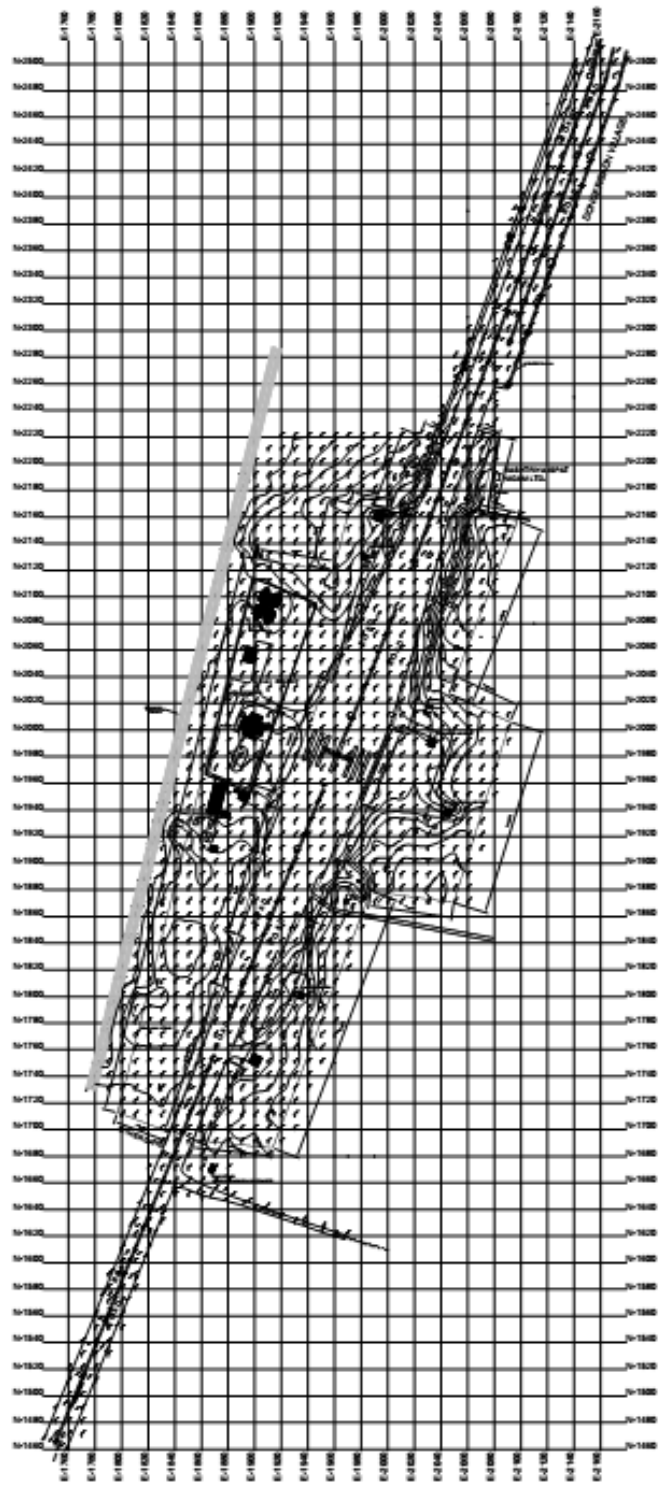
Sl. No.	Description	Facilities		
		RHS	LHS	
	d. Key Map Signages	✓	✓	
	e. Highway Way finding Signages on the Main Road - 5Km, 4Km, 3Km, 2Km, 1Km	✓	✓	
	f. Totem (Minimum 2 Nos for each site - LHS or RHS)	✓	✓	
	g. Frontlight / Backlight Facia for Food Court & Dhaba	✓	✓	
I c.	Landscaping And Arboriculture			
	a. Landscaping	✓	✓	
	b. Horticulture Operations / Arboriculture	✓	✓	
II	Civil Work / Buildings (Including Internal services)			
1.	Food Court with Motels (As shown in the drawings) - Capacity as indicated in the Site Specific drawings	Seats	90	60
		Motel	3	-
		Service Counter	7	3
2.	a) Branded / AC Restaurant - 1 - As shown in the Site Specific drawings	Seats	40	-
	b) Branded / AC Restaurant - 2 - As shown in the Site Specific drawings.	Seats	40	-
3.	Dhaba - As shown in the Site Specific drawings.	Seats	40	40
4.	Dormitory - As shown in the Site Specific drawings.	No. of Beds	16	16
5.	a) Toilet Block for Food Court - As shown in the Site Specific drawings.	Ladies Toilet:		
		WC	4 Nos	4 Nos
		Trough	1 No	1 No
		Gents Toilet:		
		Urinals	7 Nos	7 Nos
		WC	4 Nos	4 Nos

Sl. No.	Description	Facilities		
		RHS	LHS	
		Trough	1 No	1 No
		PC Toilet	2 Nos	2 Nos
	b) Toilet Block for Dhaba - As shown in the Site Specific drawings.	Gents Toilet:		
		Urinals	6 Nos	6 Nos
		WC	4 Nos	4 Nos
		Trough	1 No	1 No
	c) Toilet Block for Parking Area - As shown in the Site Specific drawings.	Ladies Toilet:		
		WC	7 Nos	-
		Trough	1 No	-
		Gents Toilet:		
		Urinals	6 Nos	-
		WC	4 Nos	-
		Trough	1 No	-
		PC Toilet	1 Nos	-
	6. Minor Repair shop - As shown in the Site Specific drawings.		1 No	-
	7. Kiosks for misc. items - As shown in the Site Specific drawings.		Type 1 & 2	-
	8. Village Haat / Gram Bazaar (Haat Structures / Shed)		1 No	1 No
	a) Toilet Block for Village Haat / Gram Bazaar	Ladies Toilet:		
		WC	3	3
		Trough	1	1
		Gents Toilet:		
		Urinals	2	2
		WC	2	2
		Trough	1	1

Sl. No.	Description	Facilities	
		RHS	LHS
	PC Toilet	-	-
	9. Parking		
	a) Car	121	80
	b) Bus	13	6
	c) Truck	6	11
	d) Trailer	2	3
III.	Furniture & Fixtures		
IV.	Equipments		
	a. Special Items of Work		
	i. RO Water Plant	✓	✓
	ii. Rainwater Harvesting	✓	✓
	iii. Septic Tank & Soak Pit with Anaerobic Filter	✓	✓
	iv. Tube wells & pumps including overhead water tank and sump	✓	✓
	v. CCTV & Security system	✓	✓
	vi. Electrical substation / Transformer / Panel Board / Earth pit / LT Switch Board / Panel Boards	✓	✓
	vii. Trenches/Ducts for UG cables / Pipe line	✓	✓
	viii. DG Set(s)	✓	✓
	ix. Entertainment - Satellite TV & WIFI	✓	✓
	x. Shading Device	x	x
	xi. Outdoor Furniture	✓	✓
	xii. Children Play Area Developments	✓	✓
	xiii. Digital Display Wall System	✓	✓
	xiv. Advertisement Balloon	✓	x
	xv. Helipad	✓	x
	xvi. Solar Power Panel	✓	✓

Sl. No.	Description	Facilities	
		RHS	LHS
xvii.	Hoarding Board	✓	✓
xviii.	High Mast Lamp & Lightening Arrester	✓	✓
	b. Additional Green Building Features:-		
	a. Wind Mill	x	x
	b. Solar Lighting	✓	✓
	c. Provision for Cooking Gas from Food Waste	✓	✓
	d. All Utility Connections , Deposits etc.,	✓	✓
	c. Other Equipments		
	HVAC	As required for operations	
	Miscellaneous Items:		

6. Topographical Survey Drawing



SYMBOL	DESCRIPTION
[Symbol]	BOUNDARY LINE
[Symbol]	ROAD
[Symbol]	STRUCTURE
[Symbol]	CONTOUR LINE
[Symbol]	RAIL TRACK
[Symbol]	INVERT LEVEL
[Symbol]	HIGH MAST LIGHT
[Symbol]	WELL
[Symbol]	TREE
[Symbol]	ELECTRIC POLE

AREA OF LHS = 3013.425 SQ. MTS. = 7.430 ACRE
 AREA OF RHS = 2979.700 SQ. MTS. = 7.408 ACRE
 PLOT AREA = 6089.125 SQ. M. = 15.047 ACRE.

NOTE
 ALL DIMENSIONS ARE IN METERS.
 T.A.M. = 20.00 M (66 FT.) ON SCREW OF HIGH MAST L.C.C. SHOWN ON DRAWING
 AS MARKED IN CIVIL
 GRID INTERVAL 20.00 X 20.00 M.
 LEVEL INTERVAL 10.00 X 10.00 M.

LEGEND

BOUNDARY LINE	[Symbol]	WELL	[Symbol]
ROAD	[Symbol]	TREE	[Symbol]
STRUCTURE	[Symbol]	ELECTRIC POLE	[Symbol]
CONTOUR LINE	[Symbol]		
RAIL TRACK	[Symbol]		
INVERT LEVEL	[Symbol]		
HIGH MAST LIGHT	[Symbol]		

UNIVERSITY OF LAGOS
TOPOGRAPHICAL SURVEY

SCALE 1:2000