



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 158+700 (RHS), Ramanathapuram -
Rameswaram section of NH 49, Pamban Village,
Rameswaram Taluk, Ramanathapuram District,
Tamil Nadu under BOT Mode (Build, Operate,
Transfer) (Package No: NHAI/WA/02/2016)**

June, 2016

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

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1. Site Report

SITE INSPECTION REPORT

Setting Up and Operations of Wayside Amenities on National Highways in India

Status of Site:

1. Already in Possession
2. Under Acquisition
3. New Site

Contacts/Site Details:

State	Tamil Nadu	PIU / Other Office	Karaikudi
Project Name	Setting up and Operations of Way-side Amenities on National Highways in India	Address of PIU office	Project Director, Project Implementation Unit, National Highways Authority of India, No.1, Second Floor, Subramaniapuram, 3rd Street, Karaikudi-630002, Ph : 04565-230707.
Site Name with full Details <i>(such as Chainage, NH, Section, village, Tehsil, Dist., State)</i>	At km 158+700 (RHS), Ramanathapuram – Rameswaram section of NH 49, Pamban Village, Rameswaram Taluk, Ramanathapuram District, Tamil Nadu	Contact Person & Phone No. (PIU office)	Mr Muthudayar Project Director
Mukesh & Associates Coordinator Name : Phone No:	Mr. Muthukaruppan +91 90471 27444 +91 98945 86365	Date of Visit:	02.11.2015

Survey Check List (Part - A)

S. No.	Salient Features to be noted	Remarks (attach separate sheet if space is insufficient)	
1	a. Location details (<i>Attach Map</i>)	At km 158+700 (RHS), Ramanathapuram - Rameswaram section of NH 49, Pamban Village, Rameswaram Taluk, Ramanathapuram District, Tamil Nadu	
	b. Frontage (<i>Length in meter</i>)	317.75 m	
	c. Average Breadth in meter (<i>Approx.</i>)	Varies	
	d. Total Land Area	31951 Sqm (Approx.)	
2	Traffic volumes, pattern and mix (<i>Traffic data to be collected</i>)	Please refer Annexure 2	
3	Nearby infrastructure (<i>Show in the map</i>)	Name of Place	Distance from Site
	a. Tourist spots	Rameswaram Dhanuskodi Pamban Bridge	12 km
	b. Industrial	Textile mills	6 km
	c. Educational	Govt. Hr. Sec School, Pamban	nearby
	d. Residential developments	Residential developments are visible around the site	100 m
	e. Others	Overhead tank, well and G+1 building	Within the site boundary

S. No.	Salient Features to be noted	Remarks (attach separate sheet if space is insufficient)	
4	a. Nearby City	Rameswaram	6 Km
		Dhanushkodi	26 km
	b. Nearby Toll Plaza	Not available	Not available
	c. Nearby fuel pump	I.O.C.L	6 Km
	d. Nearby restaurant / Dhaba	Mini Restaurant	Opposite to the Site
5	Availability of local conveyance	By Bike, car, auto, Bus etc.	
6	Land records and availability analysis	Land is owned by NHAI	
	a. Current Guideline Value / Circle Value of land	Please Refer Annexure 7	
	b. Value of land at the time of acquisition or acquisition cost <i>(not applicable for new site)</i>	Not Available	
	c. Survey No / Kaatha No:	867/2	
	d. Agricultural / Non Agricultural Land	Non Agricultural	
	e. SRO (Sub Registrar Office)	Rameswaram	
	f. Possibility of acquisition of nearby / rear land	Nil	

S. No.	Salient Features to be noted	Remarks (attach separate sheet if space is insufficient)
7	Engineering feasibility (<i>availability of existing service road</i>) Safety & legal feasibility (<i>Development Control Rules, if available</i>)	Not Available
8	Proximity to junctions	No junction
	Proximity to merging/diverging roads,	Diversion to Pamban Village Road
	Proximity to median openings	Not Available, being 2 lane
9	High frequency passenger movement / Bus routes via NH and stoppages (<i>Collect data</i>)	Please Refer Annexure 2
10	Other relevant information / analysis such as <ul style="list-style-type: none"> • Photograph • Attach Map / Google Map 	Please Refer Annexure 3

Survey Check List (Part - B)

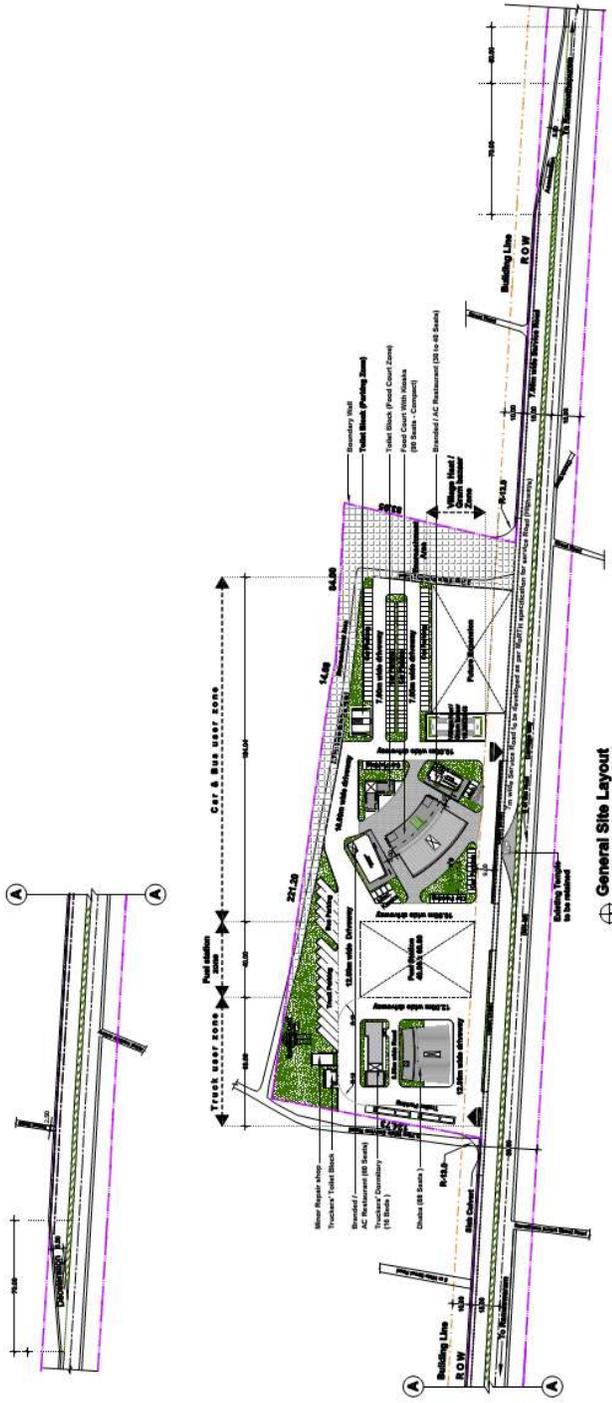
S. No.	Salient Features to be noted	Remarks (attach separate sheet if space is insufficient)
1	Existing level of the site with respect to the main road (<i>Higher or lower level from the road and provide approximate level difference</i>)	0'6" below the existing road level
2	Adjacent natural drains like Nallas, rivers, lakes etc., and their flow direction (<i>Sketch the location and flow direction, mark the distance from site</i>)	Nil

S. No.	Salient Features to be noted	Remarks (attach separate sheet if space is insufficient)
3	North point <i>(Show in the site plan)</i>	Please Refer Annexure 1
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	Nil
5	Nearest culvert detail <i>(Sketch with dimension)</i>	Nil
6	Boundary details of highway (ROW) at the proposed site	30 m (2 lane)
7	Existing condition of the well, if found inside the site area and its location	2 well available
8	Existing location of bore-well, if any give the full details like dia, depth and yield	Location: Not Available
		Dia: Not Available
		Depth: Not Available
		Yield: Not Available
9	Water table <i>(from the nearest well)</i>	60 – 70 ft
10	Availability of EB Electrical supply & nearest EB post (LT / HT) details & location of EB post with distance marked in survey report	20 m from the site
11	Availability of transformer and provide its capacity, if any	Available opposite to the site – 11kV Transformer
12	Details of existing compound wall /Fencing details, if available	No fence or compound wall
13	Surrounding site level details	Plain level

S. No.	Salient Features to be noted	Remarks (attach separate sheet if space is insufficient)
14	Nearest building details (<i>Framed / Load bearing</i>)	Framed and Load Bearing Structures exists
15	Any important explosive type (<i>like Kitchen, Kiln, etc.</i>) Please note down location & distance from the site	Nil
16	Any Interjection / Junction (like NH, SH, MDR, DR & Village road) is available please indicate distance from RO and road name within 1.50km Radius	Type: Village Road
		Distance: Parallel to the Site
17	Nearest Railway station	Pamban
18	Nearest Police station	Pamban / Mandapam
19	Nearest Fire station	Mandapam
20	General Soil condition	Silty sand
21	Topo plan (100m Radius) - Observe any important infrastructure	Residential and school building
22	Location of site with reference to road (<i>indicate service road, if any</i>)	Ramanathapuram - Rameswaram road
23	Existence of any electrical line, water line or structure within the site	Electrical line passes across the site
24	Existing structures in and around the site	Overhead tank, 2 sump well and G+1 building exists within the site
25	Site Address	At km 158+700 (RHS), Ramanathapuram - Rameswaram section of NH 49, Pamban Village, Rameswaram Taluk, Ramanathapuram District, Tamil Nadu
26	Site Plan (<i>Attach, if any</i>)	Please refer Annexure 1

Signature: Mr. Muthukaruppan

Date: 02.11.2015



General Site Layout
Scale: 1:1000

Notes:
 1. Service Road / Deceleration Zone / Acceleration Zone shown is indicative.
 2. Actual length of such roads, zones, number, location and width of entries and exits etc. shall be in accordance with MoRTH Norms.

Location:
 at km 158+700 (RHS), Ramanathapuram - Rameswaram section of NH 49,
 Pamban Village, Rameswaram Taluk, Ramanathapuram District, Tamil Nadu

Revisions

Rev. No.	Description	Date

General Site Layout

Project Name:	
Client:	
Scale:	
Drawn by:	
Checked by:	
Approved by:	
Date:	

- Notes:**
1. Dimensions are in meters unless noted otherwise.
 2. All dimensions are to be marked.
 3. Wherever applicable, the drawings shall be read along with the relevant structural drawings.
 4. Any change in the drawings shall be made only after the approval of the client.
 5. Use and reproduction of this drawing is subject to conditions.

Project Data

Item	Quantity	Unit	Description
1. Total Area (Including Right of Way)	1,00,00,000	Sq. Meters	
2. Total Area (Excluding Right of Way)	1,00,00,000	Sq. Meters	
3. Total Area (Net Usable Area)	1,00,00,000	Sq. Meters	
4. Total Area (Net Usable Area)	1,00,00,000	Sq. Meters	
5. Total Area (Net Usable Area)	1,00,00,000	Sq. Meters	
6. Total Area (Net Usable Area)	1,00,00,000	Sq. Meters	
7. Total Area (Net Usable Area)	1,00,00,000	Sq. Meters	
8. Total Area (Net Usable Area)	1,00,00,000	Sq. Meters	
9. Total Area (Net Usable Area)	1,00,00,000	Sq. Meters	
10. Total Area (Net Usable Area)	1,00,00,000	Sq. Meters	

Scale: 1:1000

Sheet No. 1/1000

2. Google Map



at km 158+700 (RHS), Ramanathapuram - Rameswaram section of NH 49, Pamban Village, Rameswaram Taluk, Ramanathapuram District, Tamil Nadu

3. Site of the Project

Site of the Project

1. The Site

The site(s) shall be as per the list described in Annex-1 of 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.

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.

2. 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	Tamilnadu	Ramanathapuram - Rameswaram section	at km 158+700 (RHS), Ramanathapuram - Rameswaram section of NH 49, Pamban Village, Rameswaram Taluk, Ramanathapuram District, Tamil Nadu	NH-49	31951 Sqm (3.19 Ha)	2128.03

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	Approximate Area in Sq. Mts.
1	Food Court - (As shown in the drawings) - Capacity as indicated in the Site Specific drawings.	90 Seats	
	a. Kiosks	7 Nos	225.81
	b. Rooms (Motel)	3 Nos	228.67
	c. Covered seating area	1 No	494.18
2	AC Restaurants - As shown in the Site Specific drawings.		
	a. AC Restaurants 1	60 Seats	240.02
	b. AC Restaurants 2	40 Seats	120.01
3	Dhaba - As shown in the Site Specific drawings.	88 Seats	
	a. Kiosks	1 No	152.48
	b. Covered seating area	1 No	324.88
4	Dormitory - As shown in the Site Specific drawings.	1 No	244.72
5	Toilet Blocks - As shown in the Site Specific drawings		
	a. Toilet Block for Food Court	1 No	105.31
	b. Toilet Block for Dhaba	1 No	54.41
	c. Toilet Block for Parking Area	1 No	119.67
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	109.20
8	Village Haat (Haat Structures / Shed) - As shown in the Site Specific drawings	✓	497.52
	a. Toilet Block for Village Haat / Gram Bazaar	✓	30.00

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 below to form part of the Wayside Amenities. The Project Facilities shall include:

Project Facilities and Construction Activities:-

Location: at km 158+700 (RHS), Ramanathapuram - Rameswaram section of NH-49, Pamban Village, Rameswaram Taluk, Ramanathapuram District, Tamil Nadu.

Sl. No.	Description	Facilities
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.	✓
	iii. 1.Construction of Retaining wall / Slope Stability Arrangements	✓
	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
	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
	f. Bollards To be provided in front of Dhaba / Food Court / Restaurants / Kiosks	✓
	g. Access Road (outside the premises) / Approach road	x
	h. Deceleration Zone (outside the premises)	✓
	i. Acceleration Zone (outside the premises)	✓
	j. Buffer Zone	✓
	k. Service Road (outside the premises) / Exit Road / Existing Service Roads including necessary crash barriers as per codes	✓
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	✓
	d. Key Map Signages	✓
	e. Highway Wayfinding Signages on the Main Road -	✓

Sl. No.	Description	Facilities	
	5Km, 4Km, 3Km, 2Km, 1Km		
	f. Totem	✓	
	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
		Motel	3
		Service Counter	7
	2. a) Branded / AC Restaurant - 1 - As shown in the Site Specific drawings.	Seats	60
	b) Branded / AC Restaurant - 2 - As shown in the Site Specific drawings.	Seats	40
	3. Dhaba - As shown in the Site Specific drawings.	Seats	88
	4. Dormitory - As shown in the Site Specific drawings.	No. of Beds	16
	5. a) Toilet Block for Food Court - As shown in the Site Specific drawings.	Ladies Toilet:	
		WC	4 Nos
		Trough	1 No
		Gents Toilet:	
		Urinals	7 Nos
		WC	4 Nos
		Trough	1 No
	PC Toilet	2 Nos	

Sl. No.	Description	Facilities	
	b) Toilet Block for Dhaba - As shown in the Site Specific drawings.	Gents Toilet:	
		Urinals	6 Nos
		WC	4 Nos
		Trough	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 No
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	
	a) Toilet Block for Village Haat / Gram Bazaar	Ladies Toilet:	
		WC	3
		Trough	1
		Gents Toilet:	
		Urinals	2
		WC	2
		Trough	1
		PC Toilet	-
9.	Parking		

Sl. No.	Description	Facilities
	a) Car	133
	b) Bus	5
	c) Truck	10
	d) Trailer	2
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
	xi. Outdoor Furniture	✓
	xii. Children Play Area Developments	✓
	xiii. Digital Display Wall System	x
	xiv. Advertisement Balloon	✓
	xv. Helipad	✓
	xvi. Solar Power Panel	✓
	xvii. Hoarding Board	✓
	xviii. High Mast Lamp & Lightening Arrester	✓

Sl. No.	Description	Facilities
	b. Additional Green Building Features:-	
	a. Wind Mill	x
	b. Solar Lighting	✓
	c. Provision for Cooking Gas from Food Waste	✓
	d. All Utility Connections, Deposits etc.,	✓
	c. Other Equipments	As required for operations
	HVAC	
	Miscellaneous Items:	

6. Topographical Survey Drawing



LEGEND :

ROAD - MAJOR/MINOR/CEMENT CONCRETE/OTHER	WATER BODIES, MALA, STREAM
ELECTRIC POLE, TELEPHONE POLE, LAMP POST	TREES: COCONUT, NEAM/SRIRUB & OTHERS
CULVERT, MANHOLE & RM STONE	HAND PUMP, BORE WELL & VALVE
HIGH TENSION LINE	EMBANKMENTS & CUTTING
TEMPLE, MOSQUE & CHURCH	DHT, CLSR, TAP & WATER TANK

AREA DETAILS:-

DESCRIPTION	SQ.MT	ACRES
SITE AREA	31931.15	7.89

Note:

- All dimensions are in metres.
- Grid line Interval 10m

SCALE:

1:1000 OR 1CM = 10M

Dwg Title:
NH - 49 RAMANATHAPURAM - RAMESWARAM

DWG NO-GM / 2016 / MUKESH / RAM / DDT | SHEET-1 OF 1 | REV - 0