

વાપી નગરપાલિકા – વાપી



Specification & Term Condition for Solar Rooftop Power Systems under Gujarat solar policy 2015 YEAR – 2016-17

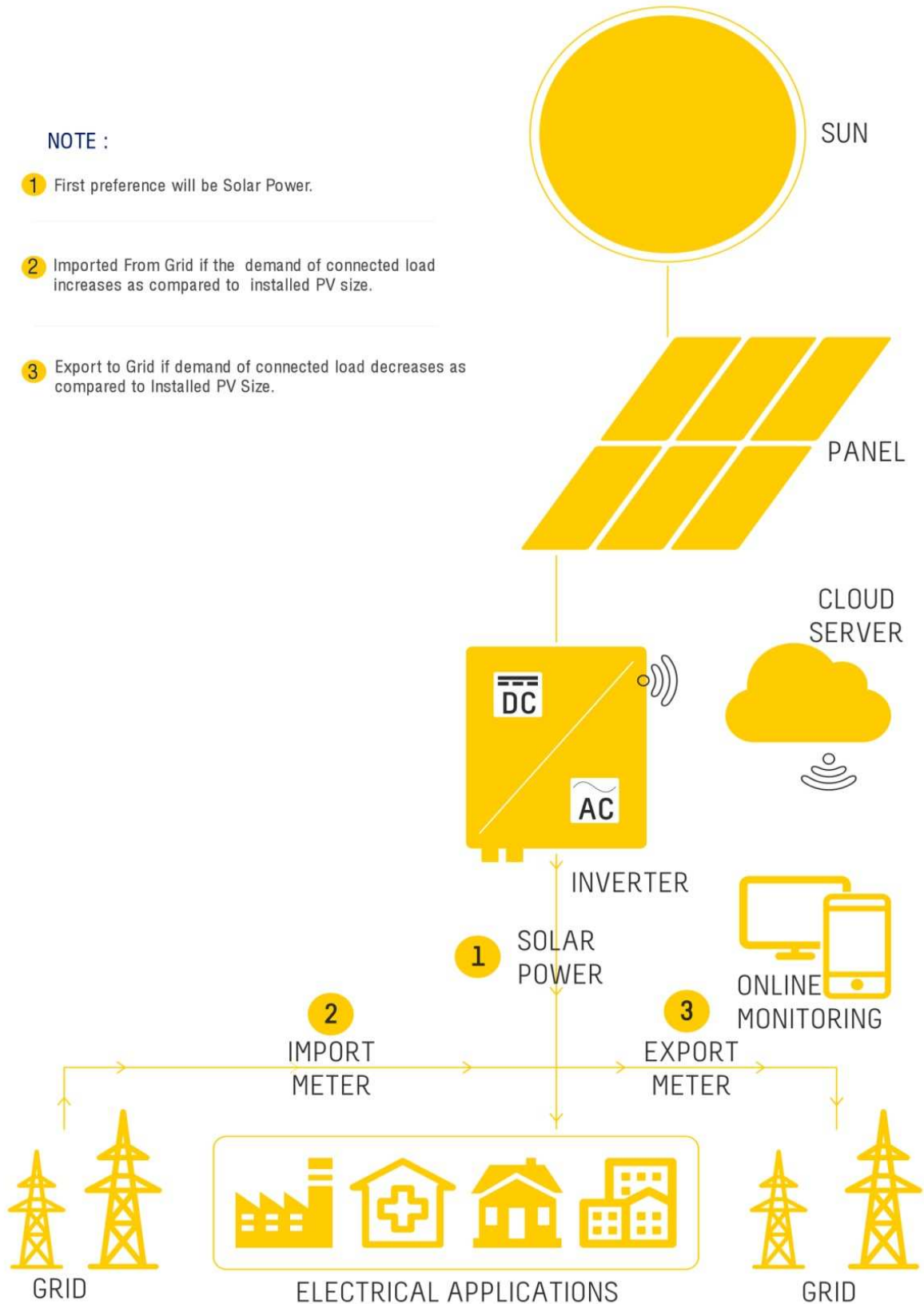
At – Vapi Municipality - Vapi

PV System Configuration

On-Grid PV System

NOTE :

- 1 First preference will be Solar Power.
- 2 Imported From Grid if the demand of connected load increases as compared to installed PV size.
- 3 Export to Grid if demand of connected load decreases as compared to Installed PV Size.



Auxiliary power is mandatory to run PV System

System Specifications

Suggested System size based on VNP current consumption as Multi Location mentioned below.

Sr. No.	Zone	Location	Type of Building	Discom Name	Cosumer No	Meter No.	Type of Meter	Sec/ Load (DGVCL) in KW	PROJECT SIZE IN KW	Remark
1	West	Vapi Nagarpalika Main Office	Main Office And Cevic Center - Janseva Kendra	DGVCL	41901/24 217/0	12902	3 PHASE	20	10	
2	West	Chala Vapi Nagarpalika Zone Office	Zone Office, Library & Pay & Use Toilet	DGVCL	41933/22 709/5	265823	3 PHASE	10	5	
3	West	Janseva Sport Complex	Sport Complex	DGVCL	41901/33 503/8	266090	3 PHASE	10	5	
4	West	Chala Swimming Pool	Swimming Pool	DGVCL	41933/23 081/9	266091	3 PHASE	50	25	
5	West	Kumarshala Nr. VNP Main Office	Pay & Use Toilet	DGVCL	41901/24 645/0	15000	1 PHASE	2	1	
6	West	Janseva Garden	Pay & Use Toilet	DGVCL	41901/31 798/6	33870	1 PHASE	3	1	
7	West	West Railway Station	Smart Pay & Use Toilet	DGVCL	41901/33 381/7	553877	1 PHASE	2	1	
8	West	Lakham Dev Talav	Smart Pay & Use Toilet	DGVCL	41921/01 207/2	11713	3 PHASE	99	8	
9	West	APJ Abdul Kalam Shoping Center	Guest House	DGVCL	41901/33 462/7	262039	3 PHASE	10	5	

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10	East	J type Road	Pay & Use Toilet	DGVCL	13502/23 698/4	554215	1 PHASE	3	1	
11	East	Geeta Nagar	Pay & Use Toilet	DGVCL	13502/14 487/7	210267 2	1 PHASE	5	1	
12	East	Imran Nagar	Pay & Use Toilet	DGVCL	13502/14 08417/7	198675 7	1 PHASE	3	1	
13	East	Sulpad Kakriya Talav	Pay & Use Toilet	DGVCL	13502/24 101/5	641234	1 PHASE	2	1	
14	East	Sulpad Bhadak Mora Main Road	Pay & Use Toilet	DGVCL	13502/21 725/4	700981	1 PHASE	3	1	
15	East	Taki Faliya Moni Baba Area	Pay & Use Toilet	DGVCL	13502/14 486/9	210267 1	1 PHASE	5	1	
16	Dungra	Dungra Vapi Nagarpalika Zone Office	Zone Office & Library	DGVCL	05628/16 257/4	265867	3 PHASE	30	5	
17	Dungra	Dungra Dungri Faliya	Pay & Use Toilet	DGVCL	05628/08 633/9	287639	1 PHASE	2	1	
18	Dungra	DUNgra Dungri Faliya Ekta Nagar	Pay & Use Toilet	DGVCL	05628/16 255/8	611777	1 PHASE	2	1	
19	Dungra	Dungra Gam Talav	Pay & Use Toilet	DGVCL	05628/16 258/2	261427	3 PHASE	20	6	

Sanctioned/Connected Load is Mentioned in above Table **Multi Location**

Multi Location

System capacity can be installed **according to the Gujarat State Solar Policy**

As on Sanctioned/Connected Load of Buildings of Vapi Municipality

Suggested system size based on Load pattern and Roof Area assessment

Agency Have to **Suggest** for it.

Approximate Area Required for installing PV system Agency Have to **Suggest** for it.

Agency Have to **Suggest** for it.

AutoCAD Drawing and line Diagram of PV System

Must Given by Agency as per site visited Engg.

Thermal / PV Array / Module Loss 4 – 7 %

Estimated generation of units by Suggested System Size

Average unit generation (*Generation will depend on Sun's intensity)	Generation	Summer (5 units/day)	Winter (4.5 units/day)	Monsoon (4 units/day)	Yearly Average (4.5 units)
	Per day				
	Per month (30 days)				
	Seasonal/Yearly				
Seasonal / Yearly Average Savings on Electricity Bill	Energy price/unit				
	Rs. 6.00				

Bill of Materials

Particulars	Make	Description	Quantity
Average Power Generation			
PV Module			
On-Grid PV Inverter			
PV Mounting Structure		*Standard Structure	
B.O.S. (Balance of System)		DC/AC cables, Fuses, Switches, DC Combiner box, Electrical accessories, PVC conduits pipes, Clamps, Cable ties and Insulations – lapp cable/TUV Certified.	
Mode of Operation		String	
Local Levies & Transportation		Service Included	
Installation		Service Included	
Commissioning process at SNA for PV System (Registration in GEDA, Charging Approval from Electrical Inspector & Application to DisCom for Net-Metering)		Service Included	
*Each and Every Fabrication cost will be borne by Agency if needed must include in quotation.			

Warranties and Guaranties

- **PV Module** – **12 Years Product Replacement Guarantee with 30 Years Performance Warranty.**
First 12 years power output will be up to **91.2%** and
Rest 18 years power output will be up to **80.6%**
- **PV Inverter** – **5 Years Replacement Guarantee & It can be extended for further two years** with an additional cost, at the time of purchase or before ending Warranty date of inverter.
- **Other Electrical Equipments and Balance of System (BOS)**
– It will be as per respective company.

General Terms and Conditions

- Work must be done as per Specification and term Condition of Vapi Municipality.
- All Type of Registration Process in GEDA will be done by Agency and Required documents will be provide by Vapi Municipality
- Vapi Municipality will pay Process Fees of GEDA and DGVCL as per GEDA Norms.
- Technical Drawing Approval From Electrical Inspector will be done by Agency.
- After reviewing Technical & Commercial Proposal Agency Must have to give detailed in quotation (***refer quotation no.***) and after detailed discussions one must need to do before signing MoU and after that VNP will give official purchase order for installation of PV System in premises of VAPI MUNICIPALITY.
- Vapi Municipality will have fully authorized for Work Order/Purchase order cancellation In case of unsatisfied work will be done by agency.
- All type of civil work & Installation charges will be borne by Agency.
- **Inverter requires Auxiliary power to generate solar power during Sun's availability, if Utility Power fails, system will stop producing Solar Power, and the Auxiliary power can be the grid power.**
- Transportation and Insurance are responsibilities of Agency till the goods reach the premises of VAPI MUNICIPALITY.

- The materials will be delivered at the site accompanying the Delivery Challans, same should be immediately duly acknowledged by the VAPI MUNICIPALITY for receipt of the material.
- VAPI MUNICIPALITY will not responsible for any type of material or PV System damage during transportation and installation work.
- After completion of installation work of PV System agency must have to inform Submitt Compliance Report to Shree President, Chief Officer or Authority officer of Vapi Municipality and put Bill/Invoice for the regards work at Vapi Nagarpalika.
- Vapi Municipality will Pay as per Bill/invoice in 10-15 days.
- Free rutin Maintenance work will be done by agency. After completion of Project if needed extra maintenance required then vapi municipality will pay charge extra to agency.
- The completion period shall be reasonably extended by VAPI MUNICIPALITY.