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# Solar Rooftop : Perspective of DGVCL

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## Gujarat Rooftop Solar System implementation

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# Empanelment of implementing agencies

- Empanelment of solar implementing agencies through bidding process.
- Empanel agencies have to install roof top solar at the fixed cost derived through bidding process.

# Role of Nodal Agency

## Scope of work

- a) Identification and Survey of prospective beneficiaries and registration of the SPV project with GEDA.
- b) Preparation of Detailed Project Report (DPR) of the proposed Proposal of SPV Power Plant.
- c) Obtaining No objection certificate/ net metering connectivity agreements from concerned DISCOM for grid connectivity and CEI's approval.

# Role of Nodal Agency

## Scope of work Cont ....

- d) The work covers design, supply, civil work, erection, testing and commissioning of SPV grid connected Power Plant as per schedule and comprehensive maintenance for FIVE years.
- e) Collection of the cost of the supplies from the beneficiaries at the approved discovered per kW LESS the eligible subsidy amount. The subsidy amount shall be released to the selected bidder upon submission of the claim upon inspection by GEDA or its appointed Agency.
- f) Cost includes DISCOMs charges i.e. grid connectivity charges and bidirectional meter charges.

# Role of Nodal Agency

## Technical Specification

- a) Empanel agency have to use the equipments as per specified in bidding for Solar Panel, Inverter, Lighting Protection , Earthling Protection.
  
- b) Warranty
  - Material : 5 Years from the date of sale to the original customer.
  - Performance : The predicted electrical degradation of power generated not exceeding 20% of the minimum rated power over the 25 year period and not more than 10% after ten years period of the full rated original output.

# Rooftop Solar Projects

- Any residential Consumer of DGVCL can install Solar rooftop system on their terrace as per their requirement.
- Consumers other than residential category can install solar pv system up to capacity of 50% of their contract demand .
- Solar system should be minimum of 1 kW capacity.

# Rooftop Solar Projects

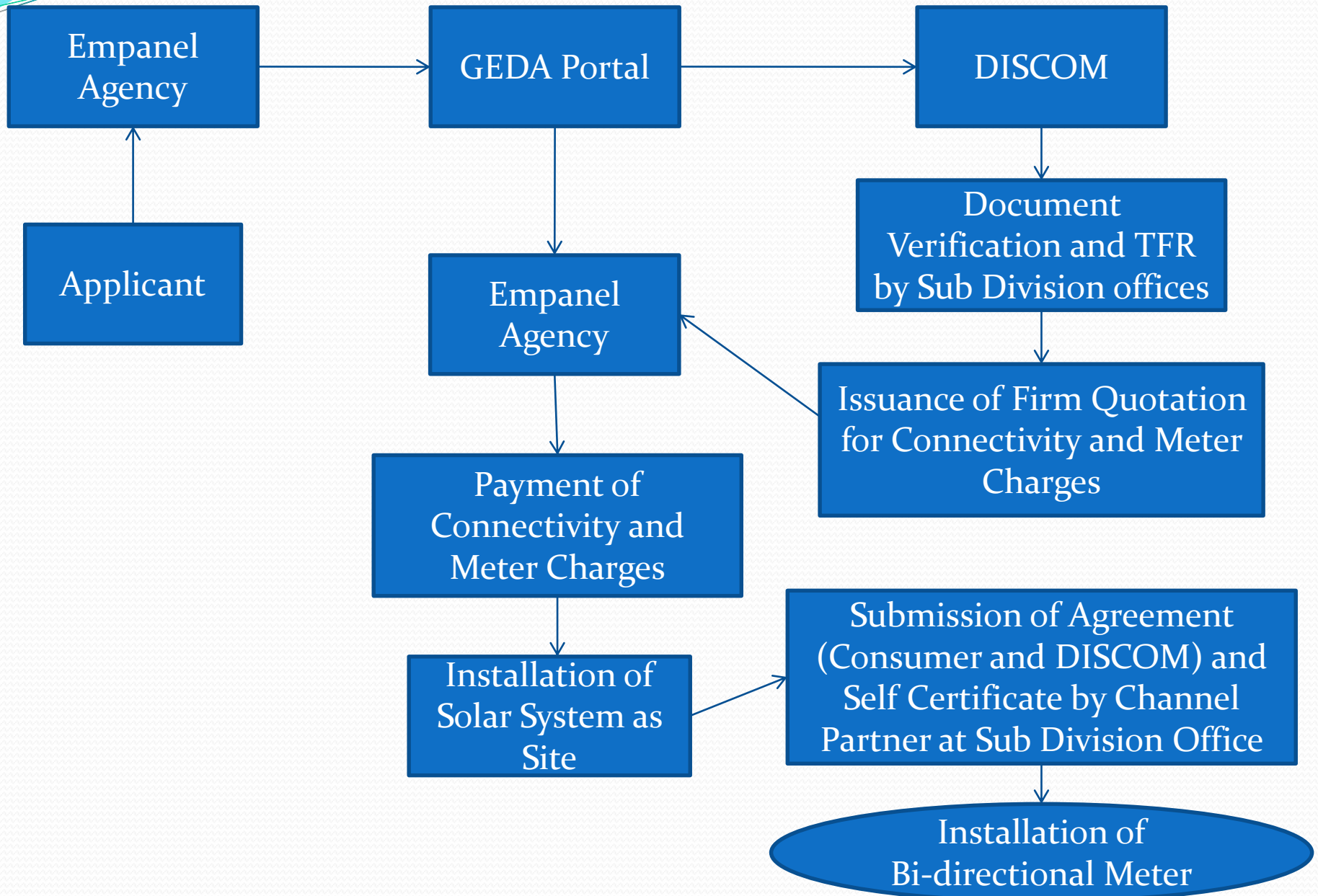
- Under the present scheme residential consumer can avail Govt. Of Gujarat subsidy of Rs 10,000/- per KW for maximum of 2 KW capacity i.e max of Rs 20,000/-. Moreover they are also eligible to avail Central Govt. Subsidy of 30% on present value of system as discovered by GEDA.
- At present 1 KW solar PV system can be installed on cost of Rs 23,810/- after deduction of state Govt./Central Govt Subsidy from rate of Rs 48,300/- per KW discovered by GEDA.
- Electricity bill of the consumer will be reduced, as solar system will generate approx. 120 units per month per KW. Consumer can avail such benefit for 25 years.



# Rooftop Solar Projects

- Net electricity exported into the grid on billing cycle basis will purchased by DGVCL and any surplus amount at end of year will be deposited in their account.
- Beneficiary shall register their application through any of the GEDA registered approved empanelled vendor only.
- Beneficiary have to sign net metering inter connection agreement with DGVCL, as per the terms and conditions specified by the DGVCL before energization of System.

# Implementation procedure of Discoms



# Key Achievement

- DGVCL have implemented Solar Roof Top programme very successfully by adopting single window clearance and streamlining of procedures with close monitoring centrally from Corporate Office.
- Due to adoption of above system efficiently we have achieved the installation of 6182 No. of SRTPV having 44.2 MW capacity.

# Key Findings

- Success in solar rooftop implementation in DGVCL can be attributed to following factors.
  1. Clarity to the consumers for cost and other technical aspects
  2. Responsibility of all the processes is with implementing agencies.
  3. Consumers have to select agency and sign the required documents and make payment to agency only.
  4. Subsidy is to be availed by agency which they have to pass to the consumers up front.
  5. Single window clearance from Discoms and Electrical inspector through online portal co-ordinated by nodal agency GEDA.
  6. Active and prompt action by Discom to provide grid connectivity and set off of solar energy in their electricity bills.
  7. Bi-Directional meter is purchased by Discoms.