



JSPM's
Imperial College of Engineering and Research, Wagholi, Pune.
(Approved by AICTE, Delhi & Govt. of Maharashtra, affiliated to Savitribai Phule Pune University)
Gat.No.720,Pune-Nagar road,Wagholi,Pune,412207
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PROF. DR.T.J.SAWANT
FOUNDER SECRETARY

DR.R. S. DESHPANDE
PRINCIPAL

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National Assessment & Accreditation Council



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1. Alternate sources of energy

(Solar Energy:- Solar Panel: Geo Tag photos)



Fig. 1 Solar panle on roof of building-C



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1. Alternate sources of energy (Solar Energy:- Solar Panel: documents)

| SOLAR POWER PLANT PROPOSAL : ROOF TOP - CAPTIVE - GRID CONNECTED | | | | |
|--|--|-------------------------|-----------|--|
| QUOTATION -Residential & NGO | | | | |
| Ref. Number : | GKPL/2019/213 | | | |
| Company : | JSPM Corporate Office (JSPM Group of Institutes) | | | |
| Contact Person : | Mr. Anil Bhosale | | | |
| Mail ID : | anil.bhosale72@gmail.com | | | |
| Address : | JSPM Corporate Office, Main Chowk, Katra | | | |
| Date: 28/1/2019 | | | | |
| Contact No. : | 7588867575 | | | |
| Sr.no | Description | Installed Capacity (KW) | Rate/KW | Value (INR) |
| 1 | Design, supply, erection and commissioning of a roof top grid tie solar PV power generation plant with standard lengths of wires. The solar power plant will consist of required no. of SPV panels, inverter and with all the electrical items suitable to the designed installed capacity | 10.00 | 68,000.00 | 6,80,000.00 |
| | | | | 5% GST on Material |
| | | | | 18% GST on installation |
| | | | | Total Project Cost |
| | | | | 7,40,520.00 |
| Customer Scope | | Remarks | | |
| 2 | Roof top area @ 10 Sq.Mtr./KWp to be provided | | | NO |
| 3 | Accelerated Income tax Depreciation | | | Included |
| 4 | Civil works | | | Included |
| 5 | Module mount structure | | | Included |
| 6 | Mounting, Erection and Commissioning | | | Included |
| 7 | Power evacuations (solar plant to mains) | | | Included |
| 8 | Lightening arrester systems | | | Included |
| 9 | Earthing systems | | | Extra on actual basis |
| 10 | Discom registration, Net meter and meter testing Charge | | | Included for 5th Years |
| 11 | Free Operation & Maintenance | | | |
| Terms & Conditions | | Remarks | | |
| 1 | All taxes, Duties, Levis, Cess etc. | | | Extra at Actual at time of billing |
| 2 | Transport charges, insurance charges | | | Included |
| 3 | Payment Terms | | | 50% Advance with Purchase order |
| 4 | Supply, Erection & Commissioning Period | | | 50% Against Material deliver to the site(PDC) |
| 5 | Validity period for this quote | | | 90 days from issue of Purchase order and advance |
| 6 | All extra and additional material/work | | | 30 day from the date of this offer |
| | | | | As per the bill raised on actual expenditure |
| Warranty | | Remarks | | |
| 1 | SPV modules (for Manufacturing Defects) | | | 10 Years |
| | | | | 25 Years for performance |
| 2 | SPV modules (for performance) | | | 90% Power output for the 1st 10 year |
| | | | | 80% power output for the 2nd 15 Years |
| 3 | Inverter (for Manufacturing Defects) | | | 5 Years free |
| PRINCIPAL | | Pravin Zagade | | |
| Jayawant Shikshan Prasarak Mandal's Imperial College of Engineering & Research Gat No.720, (1&2) Pune-Nagar Road, Wagholi, Pune- 412207, Maharashtra. | | Signature Director | | |

Fig 2 Quotation of Solar PV



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10 Kwp Grid Connected Solar PV Power Plant. Final Comparative Statement.

| Sr. No. | Product Description | Qty | GK Energy marketers Pvt ltd | Sunrisers Energy Solutions Pvt. Ltd. | Harshal Enterprises |
|---------|--|-----|---|---|---|
| 1 | 10 Kwp Grid Connected Solar PV Power Plant. Design, supply, Erection and Commissioning Of A Roof Top Grid Tie Solar PV Power Generations Plant With Standard Length Of Wires. The Solar Power Will Consists Of Required No. Of SPV Panels, Inverter and with all the electrical items suitable to designed installed capacity | 1 | 680000 | 615500 | 640000 |
| | TOTAL | | 680000 | 615500 | 640000 |
| | 5% GST On Material | | 23800 | 28900 | 32000 |
| | 18% GST On Installation & Labour Work | | 36720 | 5600 | |
| | Grand Total | | 740520 | 650000 | 672000 |
| | Other Terms & Condition | | | | |
| | Delivery & Installation | | includes in total cost | | |
| | Warranty | | Solar PV Modules: 10 yrs PV Inverter: 5 years | | |
| | Operation & Maintenance | | 2 years free maintenance after 2 years AMC will be signed. | | |
| | Services | | Yearly 3 times visit for flushing all & emergency call should be attend | | |
| | Payment Terms | | 70% adv with PO 30% Immediately after completion of work. | 50% adv with PO 50% after completion & satisfaction report of the work. | 50% adv with PO 50% against performa invoice. |

Jaywant Shikshan Prasarak Mandals
 Imperial College of Engineering & Research
 Gat No.720, 112201 Pune-Nagar Road,
 Wagholi, Pune-412207, Maharashtra.

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(Signature)
 Founder Secretary JSPM

Fig. 3 Purchase order Solar PV



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2. Management of the various types of degradable and non-degradable waste:-
Organic waste generated in campus is handled in Organic waste composter located near campus playground.

(Organic waste composter unit: Geo Tag photos)



Fig. 4 Organic waste composter unit near to the ground



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3. Water conservation:-

Water is life and water needs to be used properly and with judgment. Some initiatives taken to save or utilize water judiciously are as follows,

i. Rain water storage



Fig. 5 Rain water storage



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ii. Sewage Treatment Plant



Fig. 6 Sewage Treatment Plant at ICOER



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ii. Sewage Treatment Plant(continue)

| | |
|---|--|
| Client Name | J.S.P.M |
| Site Name & Address | Wagholi |
| Type of Plant | CLARIFFIR/PSF/ACF/SOFT/RO/DM/MB/ETP/STP |
| Type of Service | Supply/Erection/Commissioning/After Sales-Service/ After Warrantee/Old Plant/Service for others plant |
| Capacity or other details of plant. (i.e Dia/Hos/Piping/Valves/Pumps/Etc.) | S.T.P 500m ³ /day |
| Concern Person & designation | Mr. Rasendra mhadke |
| Contact No. of Concern Person & Site | mob - 7887415830 |
| Complaints or Observation in Plant/Systems (If require attach supplement) | S.T.P Auto Not working, Air Blower is sum |
| Work Carried out or Action taken by Service engineer (If require attach supplement) | 1) Filter feed Pump float switch change & Air Blower No-1 & 2 service |
| Material / Spares delivered (Pls attach acknowledge copy of Delivery Challan or description of goods) | Yes / No. float switch 01 & 2. Done OK its |
| Require material / spares or Service next time. (If yes then mention description of Goods & type of service) | Yes / No. float switch 01 for Raw water pump |
| Plant within Warrantee ? | Yes / No (If Yes then Please mention details of Supply / Erection / Commissioning) |
| Client Remark with Sign & Stamp. (If require attach supplement) | Rajwade 16/04/2012 |
| Suggestions to Client | Plant Auto Plant Start |
| Complaint attend by (Name of Service Engg) | A) Pravin Pawade B) |
| Work Started from Date & Time | 16/4/12 in time = 11:30 |
| Work Finished to Date & Time | out time = 6:00 |

FOR WATER & WASTE WATER TREATMENT EQUIPMENTS
BHOSARI, PUNE - 411039.
 Cell No. : +91 - 9372701801 / +91 - 9850909688 / +91 - 9922740227 / +91 - 32009688
 service@watertreatmentindia.net / contact@watertreatmentindia.net

Fig. 7 Maintenance Slip WTP at ICOER, JSPM campus



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iii) Water Treatment plant



Fig. Water Treatment Plant at at ICOER



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| TAX INVOICE Cum CHALLAN | | | | | | |
|---|---|--|--------------|-----------------------|---------|--------------|
| AQUA PURE ENGINEERING Build. No.26, Flat No.11, Apte Colony, Bhosari Pune -411039 Ph. 020 27122852 / 32009688 E-mail : contact@watertreatmentindia.net | | Invoice No. | | Dated | | |
| | | 251 | | 18-Nov-2010 | | |
| Buyer J.S.P.M.S. Group of Institue Wagholi Campus, Wagholi, Pune Ph. 9763722100 9422037767 | | Delivery Note | | Mode/Terms of Payment | | |
| | | | | Against delivery | | |
| | | Supplier's Ref. | | Other Reference(s) | | |
| | | | | | | |
| | | Buyer's Order No. | | Dated | | |
| | | Verbal by Mr. Bugade | | 2-Sep-2010 | | |
| | | Despatch Document No. | | Dated | | |
| | | | | | | |
| | | Despatched through | | Destination | | |
| | | By Transport | | Wagholi | | |
| | | Terms of Delivery | | | | |
| | | | | | | |
| Sl No. | Description of Goods | Quantity | Rate | per | Disc. % | Amount |
| 1 | Water Treatment Plant Softening Plant - 15 M3/hr. RO Plant - 5 M3/hr. | 1 Nos | 10,00,000.00 | Nos | | 10,00,000.00 |
| | 12.5% Output VAT | | 12.50 % | | | 1,25,000.00 |
| Total | | 1 Nos | | | | 11,25,000.00 |
| Amount Chargeable (in words) | | | | | | E. & O.E |
| Rs. Eleven Lakh Twenty Five Thousand Only | | | | | | |
| Company's VAT TIN : 27100543869V w.e.f. 15-06-2006 Company's CST No. : 27100543869C w.e.f. 15-06-2006 Company's Service Tax No. : AAMFA7556MST001 Company's PAN : AAMFA7556M | | Declaration We hereby certify that our registration certificate under the Maharashtra Value Added Tax Act 2002 is in force on the date which the sale of goods specified in this tax invoice is made by me/us and that transaction of sales covered by this tax invoice has been effected by me/us and it shall be accounted for turnover of sales while filling of return and the due tax if any payable on the sales has been paid or shall be paid | | | | |
| | | for AQUA PURE ENGINEERING Authorised Signatory | | | | |
| This is a Computer Generated Invoice | | | | | | |

Fig. 8 Tax invoice of Water Treatment Plant at ICOER



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4. Green campus initiatives

Initiatives taken by the institution to make the campus eco-friendly

1. Tree Planation: Tree Planation is one of most ambitious initiatives of the Government of Maharashtra. With respect to this initiative Maharashtra Government had launched a massive drive to increase the green cover across the state. Planting trees and taking care of them is not less than any social work so NSS ICOER organized the tree plantation drive to support this initiative. Approximately 2500 Plants were planted in very discipline and in an organized manner.

2. Separation of wet and dry garbage: Waste segregation refers to the separation of wet waste and dry waste, the purpose is to recycle dry waste easily and to use wet waste as compost. When we segregate waste, there is reduction of waste that gets landfilled and occupies space, air and water pollution rates are considerably lowered. Due to this NSS ICOER create the awareness regarding separation of wet and dry garbage in adopted village from 25th Jan 2019 to 31st Jan 2019.

3. Implementing solar panels: No greenhouse gas emissions are released into the atmosphere when you use solar panels to create electricity. And because the sun provides more energy than well ever need, electricity from solar power is a very important energy source in the move to clean energy production. NSS ICOER students create the awareness of installing solar panels on home of villagers helps combat greenhouse gas emissions and reduces our collective dependence on fossil fuel.

4. Eco friendly Ganesh festival: During the festival of Ganesh Chaturthi, almost every other person welcomes Ganesh idols. However, these idols are mostly made of plaster of Paris that causes more harm to our environment than any good. NSS ICOER Celebrated an Ecofriendly Ganesh Chaturthi • Buying Eco friendly Ganesh idols. • Eco Friendly Ganpati Decorations. • Use Biodegradable Plates for Prasad. • Use Chemically Free Rangoli Colours.

5. Plastic free campus: Plastic can release harmful chemicals into the surrounding soil, which can then seep into groundwater or other surrounding water sources and also the ecosystem of the world. So the awareness regarding plastic free campus was introduced by the NSS ICOER. Following posters was

prepared by the NSS volunteers. • Carry reusable shopping bags. • Give up bottled water. • Carry your own containers for takeout food and leftovers. • Carry a stainless steel travel mug or water bottle at all times for coffee and other drinks • Carry reusable utensils and glass drinking straws.



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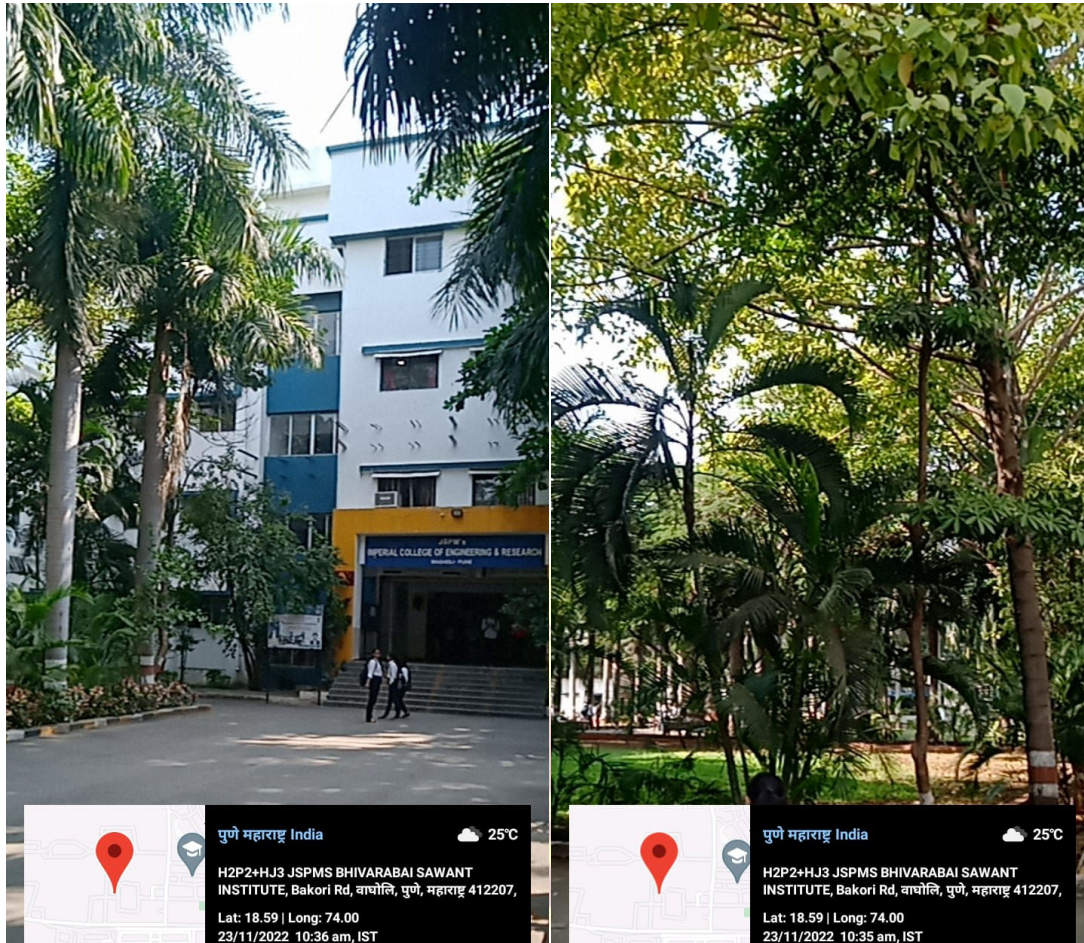


Fig 9 Green campus of ICOER



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5. Disabled-friendly, barrier free environment

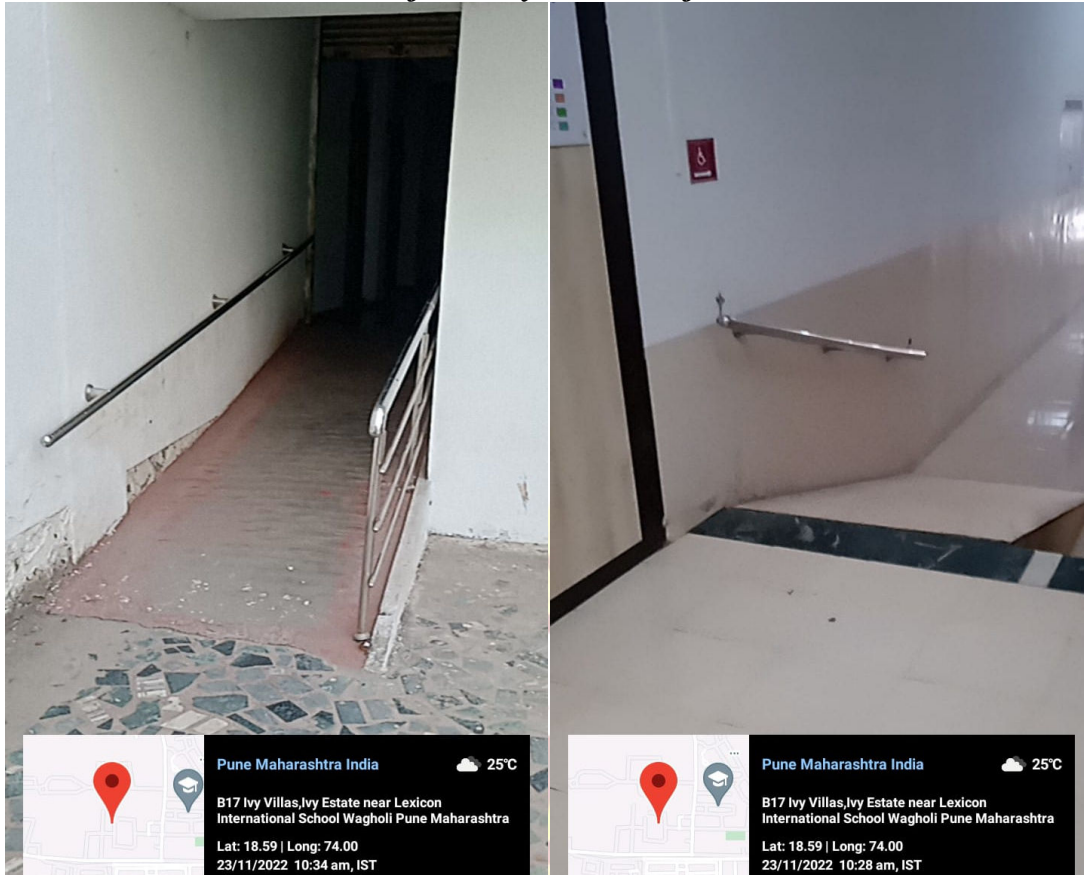


Fig 10 Ramp at left photo-building A, right photo- Building B of ICOER



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5. *Disabled-friendly, barrier free environment(Continued)*



Fig 11 Ramp at central workshop of ICOER



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Fig. 12 Toilet for disabled of ICOER



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Fig. 13 Lift in building A of ICOER



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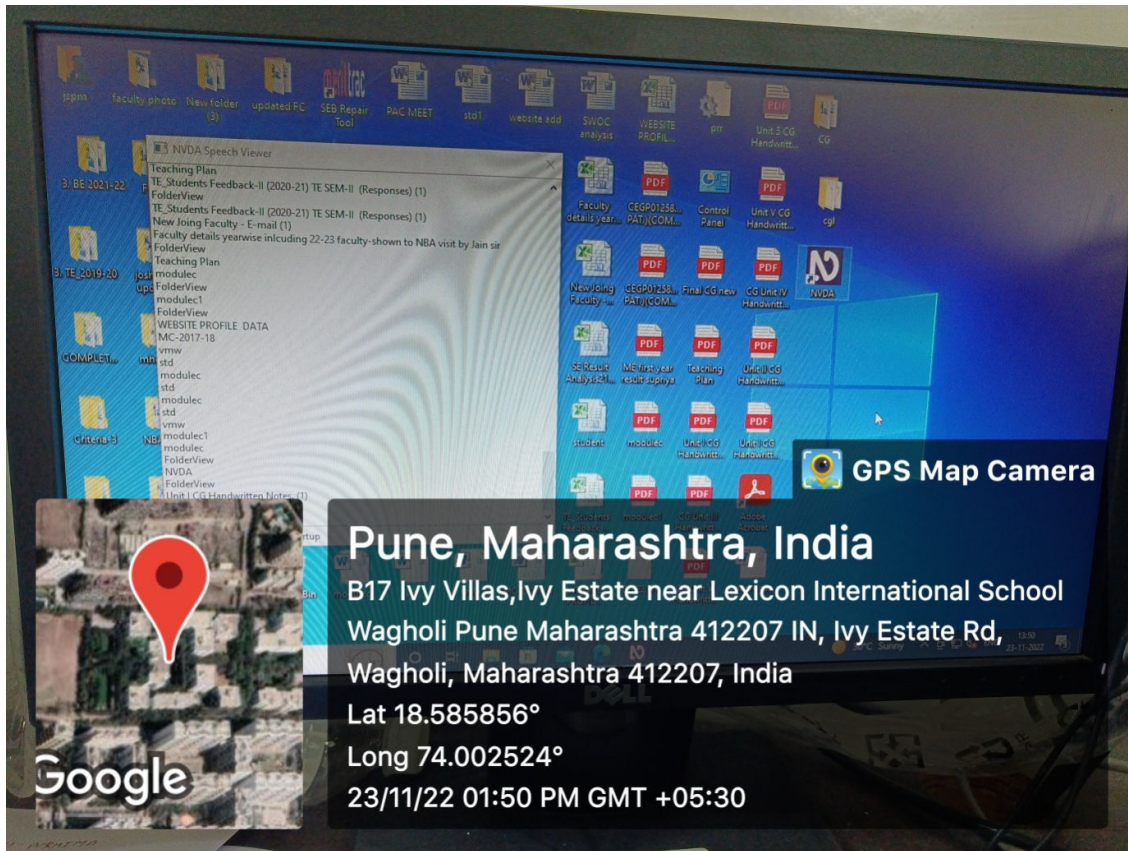


Fig. 14 Nvidia software for reading screen

Nvidia software is installed on few PC's to read screen for blind or poor vision person.