



**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**

### 7.1.2 - The Institution has facilities and initiatives

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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)

Sr.no		Description	Installed Capacity (KW)	Rate/KW	Value (INR)	
<b>SOLAR POWER PLANT PROPOSAL : ROOF TOP - CAPTIVE - GRID CONNECTED</b> <b>QUOTATION -Residential &amp; NGO</b>						
Ref. Number :		GKPL/2019/213	Date: 28/1/2019			
Company :		JSPM Corporate Office (JSPM Group of Institutes)				
Contact Person :		Mr. Anil Bhosale	Contact No. :		7588867575	
Mail ID :		anil.bhosale72@gmail.com				
Address :		JSPM Corporate Office, Main Chowk, Katraj				
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	23,800.00
					18% GST on installation	36,720.00
<b>Total Project Cost</b>					<b>7,40,520.00</b>	
2	Roof top area @10 Sq.Mtr./KWp to be provided			Customer Scope		
3	Accelerated income tax Depreciation			NO		
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			Included		
10	Discom registration, Net meter and meter testing Cha			Extra on actual basis		
11	Free Operation & Maintenance			Included for 5th Years		
Sr.no		Parameters	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 50% Against Material deliver to the site(PDC)			
4		Supply,Erection & Commissioning Period	90 days from issue of Purchase order and advance			
5		Validity period for this quote	30 day from the date of this offer			
6		All extra and additional material/work	As per the bill raised on actual expenditure			
Warrantee						
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				

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 Jayawant Shikshan Prasarak Mandal's  
 Imperial College of Engineering & Research  
 Gat No.720, (1&2) Pune-Nagar Road,  
 Wagholi, Pune- 412207, Maharashtra.

Pravin Zagade  
 Signature Director

Fig 2 Quotation of Solar PV



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

**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
<b>TOTAL</b>					
	5% GST On Material		680000	615500	640000
	18%GST On Installation & Labour Work		23800	28900	32000
	<b>Grand Total</b>		36720	5600	740520
<b>Other Terms &amp; Condition</b>					
	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.

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Jayswant Shikshan Prasarak Mandals  
 Imperial College of Engineering & Research  
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 Wagholi, Pune-412207, Maharashtra.

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 10/11/2016/1907  
 Pune.  
 Founder Secretary JSPM

Fig. 3 Purchase order Solar PV



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## 1. Alternate sources of energy

(Policy for Environment and Energy Usage)

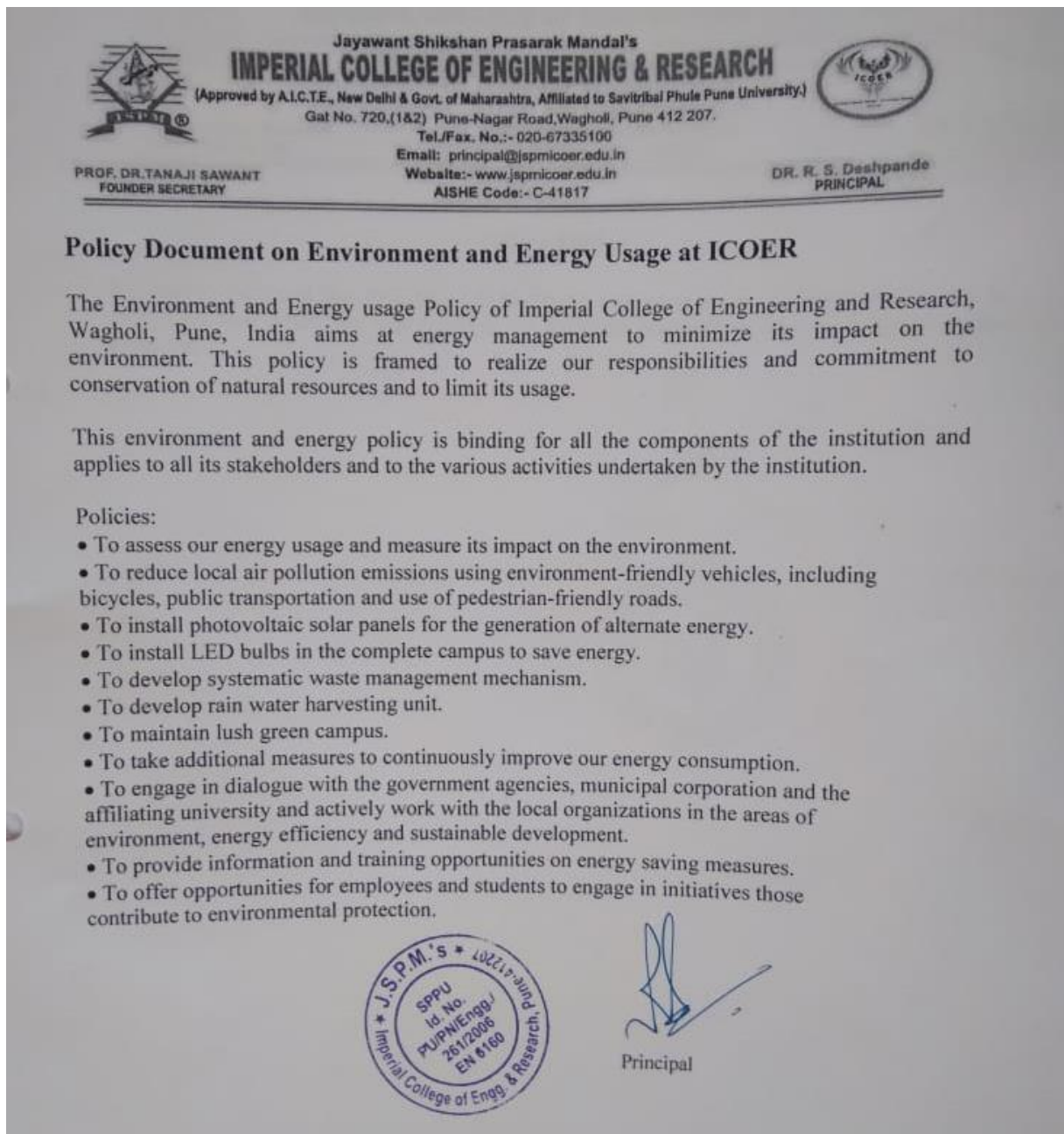


Fig. 4 Policy for Environment and Energy Usage



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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.5 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. 6 Rain water storage



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## ii. Sewage Treatment Plant



Fig. 7 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 <sup>3</sup> /day
Concern Person & designation	Mr. Rasendra mizale
Contact No. of Concern Person & Site	mob- 7887415830
Complaints or Observation in Plant/Systems ( If require attach supplement)	S.T.P Act to 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 R. 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 R. Diesel 04 Ltr
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 Act Dont Start
Complaint attend by ( Name of Service Engg)	A) Pravin Pawade B)
Work Started from Date & Time Work Finished to Date & Time	16/4/12 in time = 11:30 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. 8 Maintenance Slip OF STP at ICOER, JSPM campus



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### iii)Water Treatment plant



Fig. 9 Water Treatment Plant at at ICOER



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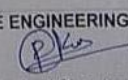
TAX INVOICE Cum CHALLAN						
<b>AQUA PURE ENGINEERING</b> Build. No.26, Flat No.11, Apte Colony, Bhosari Pune -411039 Ph. 020 27122852 / 32009688 E-mail : contact@watertreatmentindia.net			Invoice No. <b>251</b>		Dated <b>18-Nov-2010</b>	
			Delivery Note		Mode/Terms of Payment <b>Against delivery</b>	
Buyer <b>J.S.P.M.S. Group of Institute</b> Wagholi Campus, Wagholi, Pune Ph. 9763722100 9422037767			Supplier's Ref.		Other Reference(s)	
			Buyer's Order No. <b>Verbal by Mr. Bugade</b>		Dated <b>2-Sep-2010</b>	
			Despatch Document No.		Dated	
			Despatched through <b>By Transport</b>		Destination <b>Wagholi</b>	
			Terms of Delivery			
Sl No.	Description of Goods	Quantity	Rate	per	Disc. %	Amount
1	<b>Water Treatment Plant</b> Softning Plant - 15 M3/hr. RO Plant - 5 M3/hr.	1 Nos	10,00,000.00	Nos		10,00,000.00
	<b>12.5% Output VAT</b>		12.50 %			1,25,000.00
Total		<b>1 Nos</b>				<b>11,25,000.00</b>
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 ,payble on the sales has been paid or shall be paid						for AQUA PURE ENGINEERING  Authorised Signatory
This is a Computer Generated Invoice						

Fig. 10 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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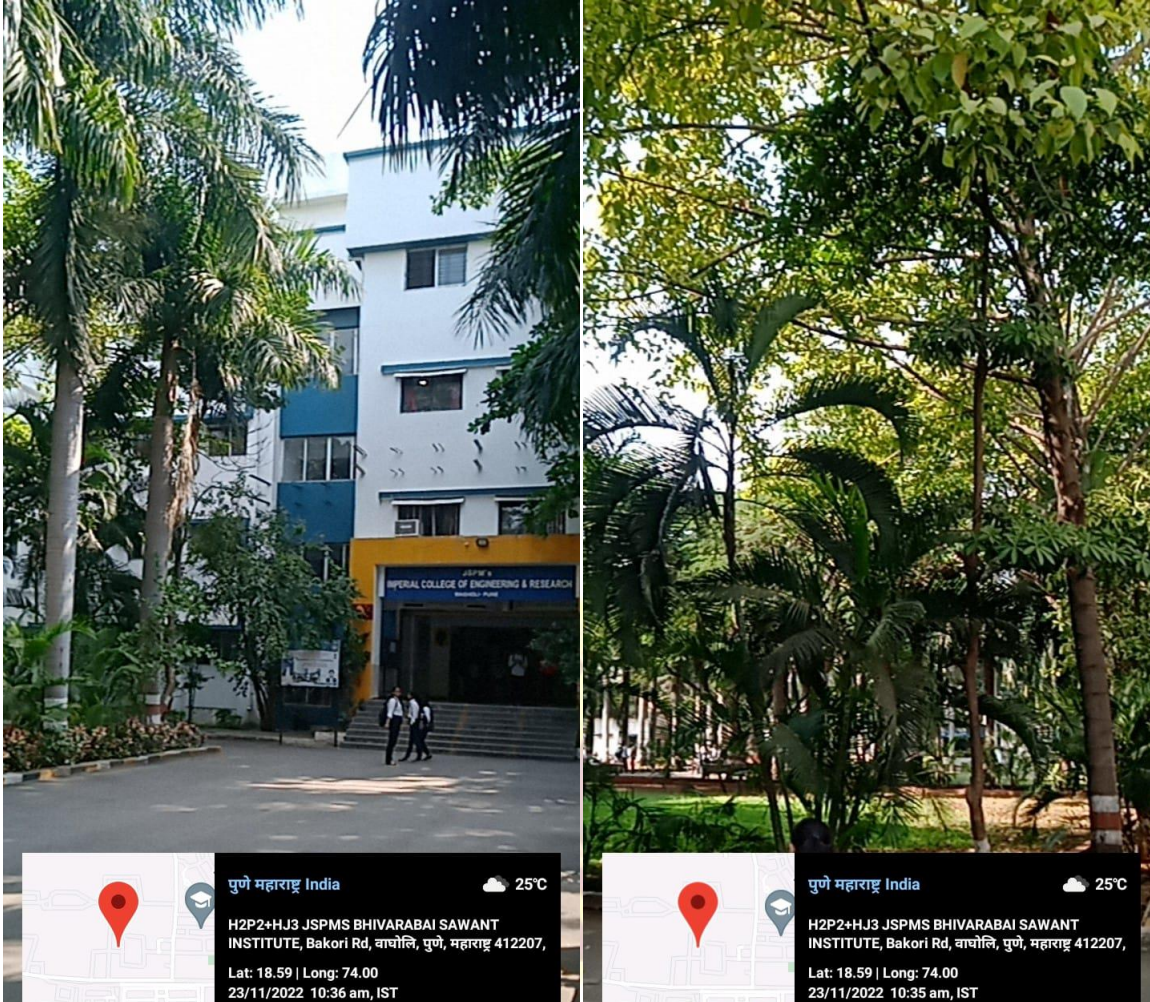


Fig 11 Green campus of ICOER



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### 5. Disabled-friendly, barrier free environment:-

ICOER tries it's best to make barrier free for disabled people by providing various facilities as follows,

#### i) Ramps

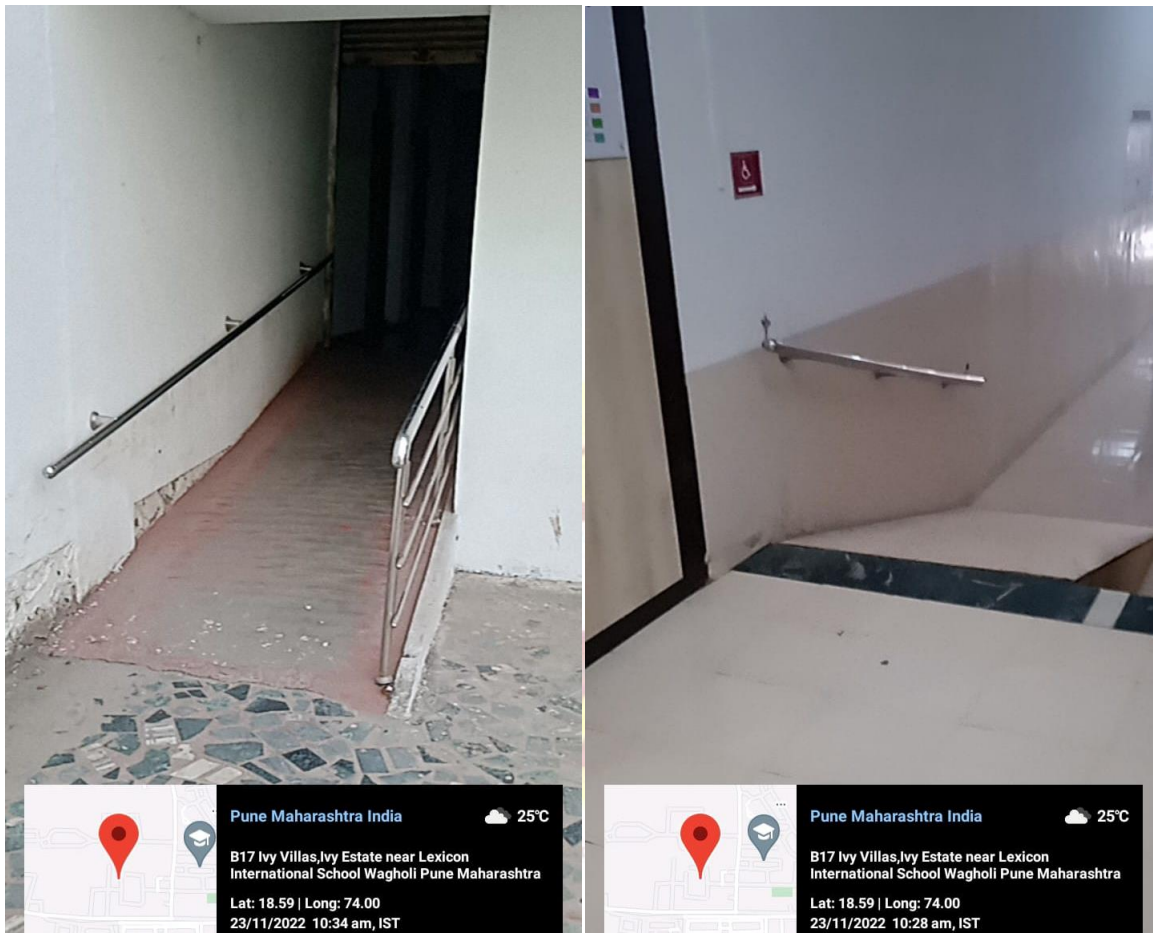


Fig 12 Ramp at left photo-building A, right photo- Building B of ICOER



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



Fig 13 Ramp at central workshop of ICOER



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### ii)Toilets for disabled



Fig. 14 Toilet for disabled of ICOER





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### iii)Lift



Fig. 15 Lift in building A of ICOER



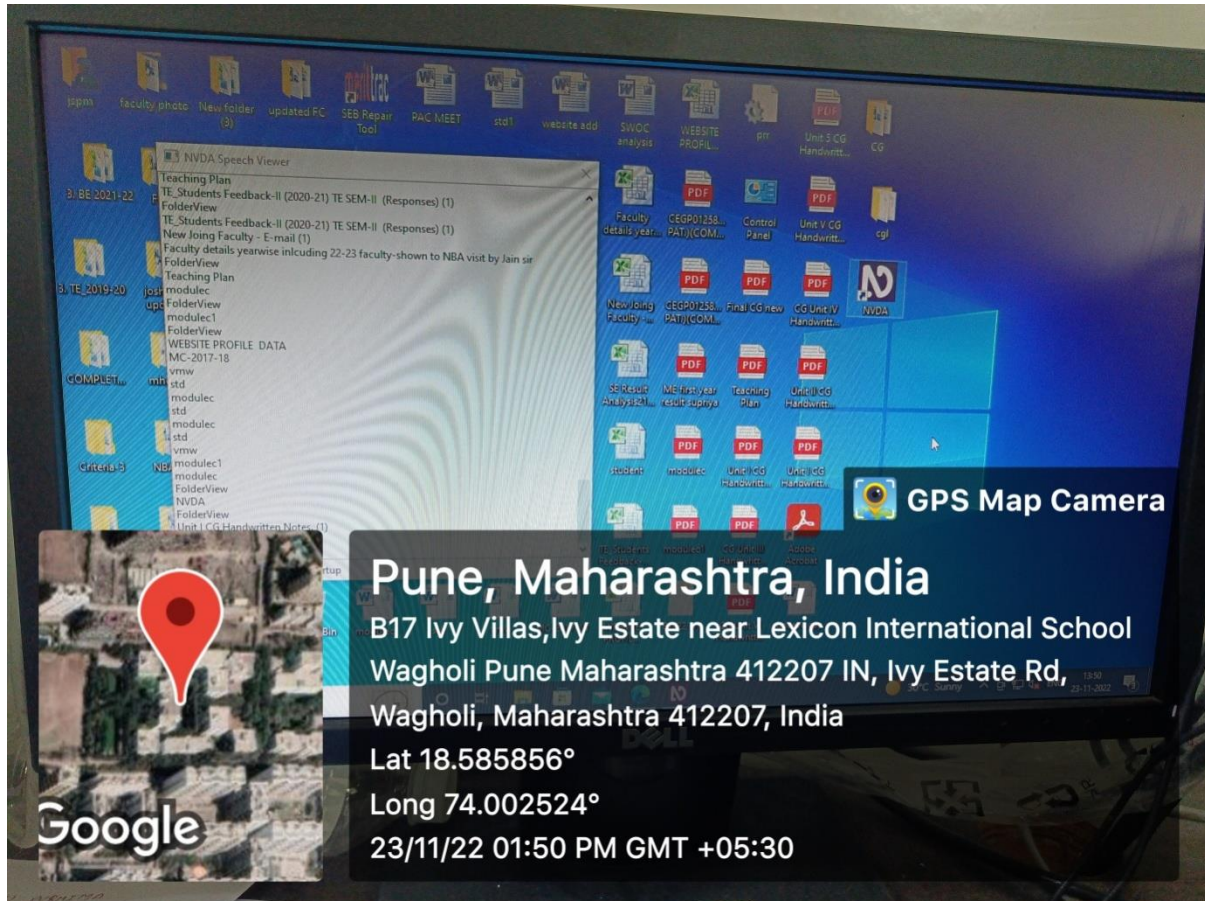
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**iv)Software to assist blind or low vision person**



**Fig. 16 Nvidia software for reading screen**  
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Nivida software is installed on few PC's to read screen for blind or poor vision person.