



GREEN BUILDING AUDIT FOR EXISTING BUILDING
GREEN BUILDING AUDIT REPORT

Project name – IDEAS-Institute of Design Education & Architecture Studies

Location – Nagpur

Date – 20-03-2020

1. Provide ramp with railing at the entrance of building and various levels at buildings for differently abled person. (Mandatory)



RAMP 1
SLOPE 1:1:6



RAMP 2 SLOPE 1:10



RAMP 3
SLOPE 1:6



2. Provide toilets for differently abled person. (Mandatory)



3. Provide firefighting equipment/systems which are halon free (Mandatory)

DELIVERY MEMO
V. K. ENTERPRISES
 SLAES & SERVICE OF FIRE FIGHTING EQUIPMENTS
 272, SHANKAR NAGAR, NAGPUR - 440 010.
 PH. : 2247586 2247271, FAX. : 2247271 Mob. 9422101162
 D.M. No. 2116 Date 20-3-2020
 M/s. Hudkeshwar road Nagpur
 Your Order No. _____ Date _____

Sr. No.	PARTICULARS	Qty.	Rate Rs.	P
1]	Type of fire extinguishers			
1]	CO2 Type fire extinguishers 4.5 kg Capacity	2 Nos		
2]	Water CO2 Type fire extinguishers. 9 LTR capacity	1 Nos		
3]	ABC Type fire extinguishers Capacity 6 kg	6 Nos		
<u>Installed</u> <u>Rukhman</u> <u>20/3/2020</u>				
Total		9 Nos		

Received in good condition & as per order
 Please Sign and return.

Receiver's Signature _____ For V. K. ENTERPRISES



CO2 Type



ABC Type



Water CO2 Type



FIRST FLOOR PLAN



GROUND FLOOR PLAN



Swargiya Jagannath Jattewar Shikshan Sanstha , Nagpur

Institute of design education & architectural studies , Nagpur

Provide renewable energy system (Mandatory)

22 May 18

SOL'EN'POWER

Solar Energy - Today's resource for a brighter tomorrow!

S S Enterprises, 233, Garoba Maidan, Kapse Chowk, Nagpur-44008, Telephone No: 7350987631 / 7020137891, Email: info@solenpower.co.in, www.solenpower.co.in GST No. 27ACTPN6480Q1ZC Regular		TAX INVOICE PO No Invoice date 15/10/2018 PI No Place of Supply NAGPUR Nagpur (Maharashtra)		
To INSTITUTE OF DESIGN EDUCATION AND ARCHITECTURAL STUDY, OUTER RING ROAD, HUDKESHWAR, NAGPUR		Ship To INSTITUTE OF DESIGN EDUCATION AND ARCHITECTURAL STUDY, OUTER RING ROAD, HUDKESHWAR, NAGPUR		
Sr. No	Item Description	Qty	Rate	Amount (INR)
1	ON GRID ROOF TOP SOLAR POWER PROJECT Capacity 28KW	1	1423090	1423090.00
2	Labour charge for commissioning including GST	1	53100	53100.00
Total in words: Two Lakh eighty nine thousand one hundred and seventy Rs only		Sub Total 1476190.00		
Terms and Condition: Delivery FOC at Nagpur		Freight		
		Loading / Unloading		
		Packing		
		Total 1476190.00		
		Tax Type Rate		
		SGST 2.50% 36905.00		
		CGST 2.50% 36905.00		
		IGST 0.00%		
		Total Invoice value 1550000.00		
		For S S Enterprises		

Approved

22/05/2018

Office Address: S S Enterprises, 233, Garoba Maidan, Kapse Chowk, Nagpur-44008.
 Telephone No: 7350987631 / 7020137891
 Email: info@solenpower.co.in, solarsolution16@gmail.com
 Web: www.solenpower.co.in



4. Provide parking for differently abled person near building entrance (Mandatory)

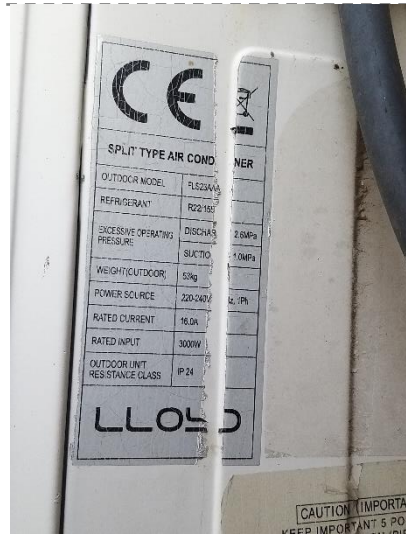


5. Provide no smoking signage (Mandatory)



**6. Use CFC/HCFC refrigerants and Phase out refrigerant, which has ozone-depleting potential.
(Mandatory)**





7. Wastewater treatment and recycle if the number of building users are above 500.(Mandatory)

DEWAT System

The waste water from toilets is passed through three stages before storage and is again filtered for reuse.

Stage 1- Sedimentation: Waste water from the toilets on both floors is collected by a well-constructed drainage system leading to the closed septic tanks. There are two septic tanks. Each consists of two chambers, sedimentation takes place in first chamber.



Figure 3 Septic Tank

Stage 2- Anaerobic Filtration: The overflow from the septic tank is allowed to pass through an Effluent Treatment tank which has with four stages of filtration; i) Stone gravel; ii) Aggregate; iii) Sand and iv) Charcoal.



Figure 4 Four chambered anaerobic treatment tank

Stage 3- Aerobic Treatment: The final stage of treatment uses root zone system of aquatic plants. First the effluent is passed through three beds of duck weed and then two beds of water hyacinth. The treated water is allowed to stand in the last chamber to be disinfected by UV rays in sunlight.

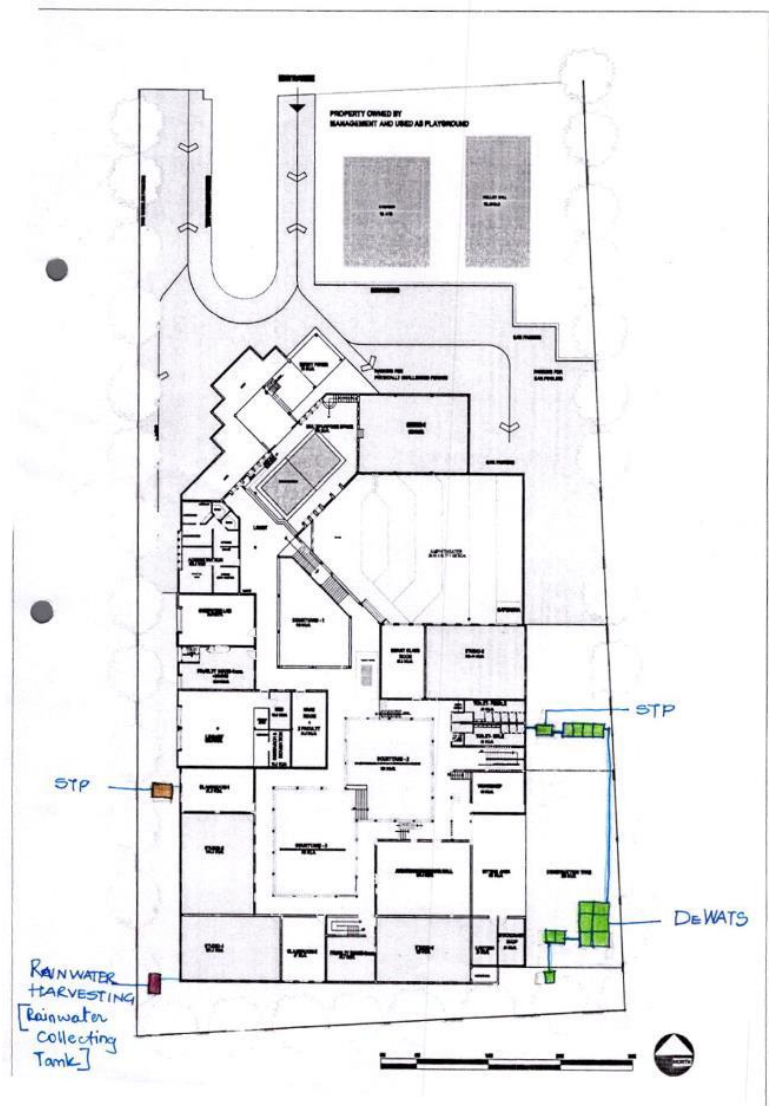


Figure 5 Aerobic treatment tank

Stage 4- Storage & Reuse: The treated water is again allowed to pass through a two-chamber filtration tank having sand and charcoal. This removes any dirt and plant matter. The water is then stored in an underground tank having capacity of 4500L. This tank is connected to a separate overhead tank which provides water for flushing in toilets.



Figure 5 Filter and Storage tank



IDEAS- INSTITUTE OF DESIGN EDUCATION AND ARCHITECTURAL STUDIES, NAGPUR

To,
The Principal,
IDEAS, Nagpur

24.09.18

Dear Sir,

As per our discussion, we have prepared the proposal for sewage treatment plant at IDEAS.

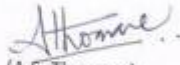
This Septic tank, Effluent Treatment with four stages and final extract treatment using Root Zone System of aquatic plants.

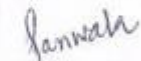
The proposal has 1 septic tank, each for students toilet in East margin and 1 septic tank for Faculty Toilet in West margin of the Campus.

The attached sets of drawings elaborate the scheme. This is for your approval and sanction. The tentative cost is estimated at about INR 1, 75, 000/-

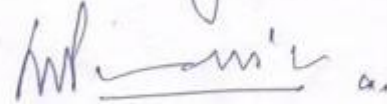
Thankyou.

Yours sincerely


(A.S. Thomare)


(V.B. Jariwala)

Approved after discussion
with Secretary SJS

 a.

Attachments

1. Drawing details of Septic tank and effluent treatment details in the east margin
2. Drawing details of final extract treatment using root zone system by aquatic plants in the east margin
3. Drawing details of Septic tank and sump in the west margin

8. Install energy meter at building level to monitor the energy consumption (Mandatory)



9. Install water meter at building level to monitor the water consumption (Mandatory)



10. Garbage segregation, collection and disposal (Mandatory)

Wet waste from the kitchen is composted and the manure that it yields is used in landscape areas.

Dry waste from classrooms, staff rooms and office is segregated.

- Paper and sheets are sold to identified agency for recycling.
- Single side paper is used for rough work.
- Rest of dry waste is sent to landfill

Sanitary napkins are burnt in incinerator

Composting

Bio-degradable waste mainly generated by the canteen is recycled through a process of composting.

The waste is allowed to degrade or decompose in an oxygen rich medium in a pit created behind the canteen. The matter is turned at regular intervals until it is reduced into a fine powder. This is a good quality nutrient rich and eco-friendly manure that is then used in the landscaped area.



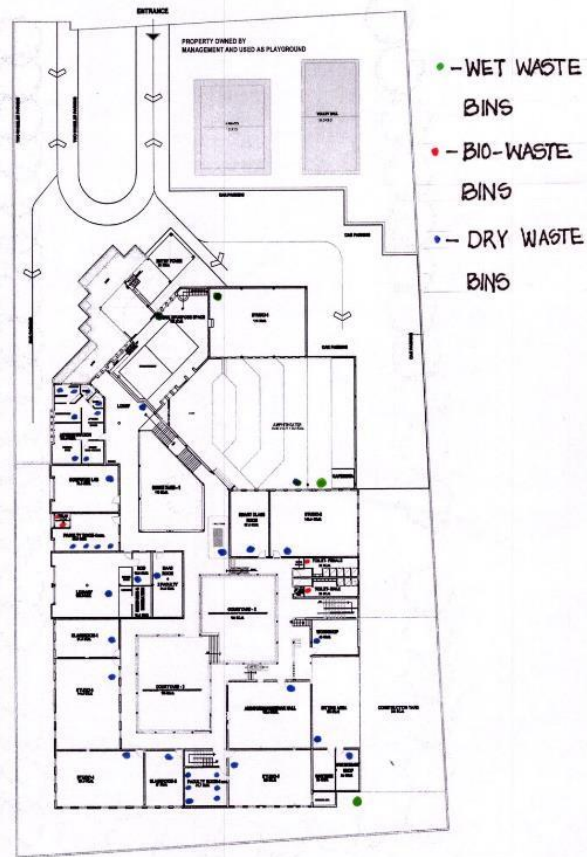
Used paper sold to identified agency for recycling



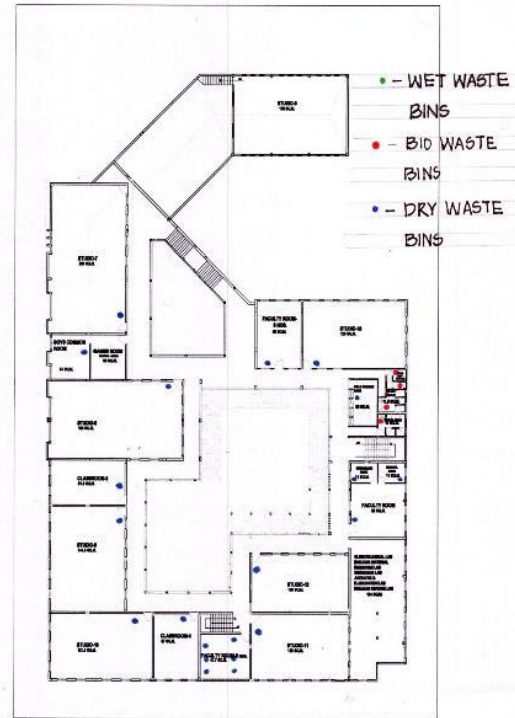
Incinerator in girls' toilet



11. Install multi-coloured bins at each floor to segregate waste at site.



GROUND FLOOR PLAN SHOWING WASTE BINS



1st FLOOR PLAN SHOWING WASTE BINS

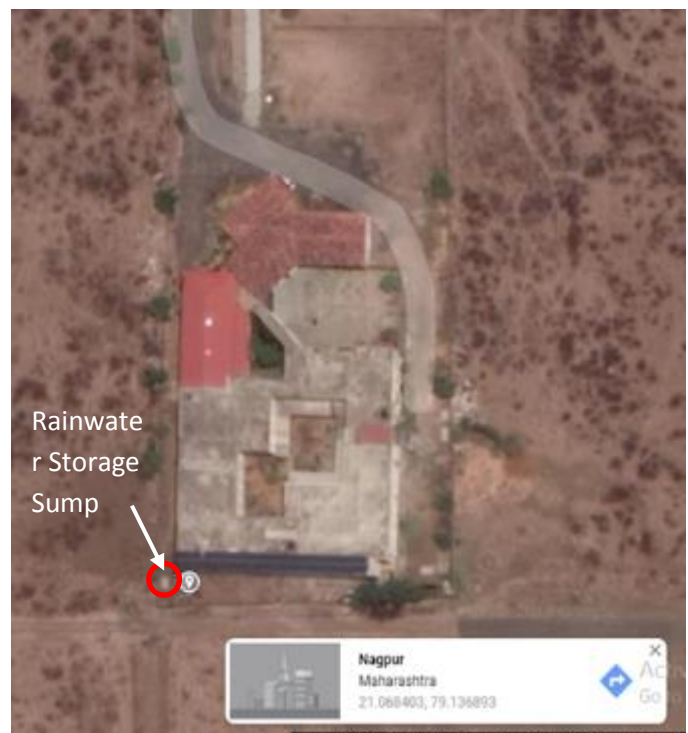


12. Install rainwater harvesting system on site, either for storage or recharging the ground water table, if admissible.

Spouts and rainwater pipes allow the rainwater from the terrace to fall into the courtyard where it is soaked into the ground. Benefits derived through this system are: i) tube well recharging and ii) rise in water table. The institute draws water from the tube well for daily use.



At present a sump tank of capacity 4100 liters is constructed at south west corner of the campus to store rainwater for reuse in watering plants and cleaning. The institute has planned to increase the system in phases.



13. Provide water efficient fixtures and faucets.

Indian WCs are installed. Taps are fitted with aerators.





14. Install energy efficient lighting fixtures – LED tubes and light

IN : 27660715348V		CST No.: 27660715348C																																																													
<< TAX INVOICE >> PAREKH COMMUNICATION SHIV SADAN COMPLEX, PAREKH COMPOUND, OPP.LIFE CARE HOSPITAL FIRE BRIGADE ROAD, LAKADGANJ, NAGPUR 440008. Tel : 0712-2725005, 3244432, 9326005400 email : zulkiff@parekhgroup.org																																																															
Party Details : Ideas Institute of Design Education, Hudkeshwar Outer Ring Road Nagpur 09823097688 Party TIN :		Invoice No. : L-795 Dated : 12-09-2016 (12:52 PM) Delivery Address :																																																													
<table border="1"> <thead> <tr> <th>S.N.</th> <th>Description of Goods</th> <th>Qty.</th> <th>Unit</th> <th>List Price</th> <th>Discount</th> <th>Price</th> <th>VAT %</th> <th>VAT Amt.</th> <th>Amount(Rs.)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>SSK-PA23-46F-6500K Led Panel Light (Round) 12W, 6500K, 6"</td> <td>12</td> <td>Pcs.</td> <td>781.00</td> <td>0.00 %</td> <td>694.22</td> <td>12.50 %</td> <td>1,041.33</td> <td>9,372.00</td> </tr> <tr> <td>2.</td> <td>SSK-PA23-44E-6000K Led Panel Light (Round) 8W, 6000K</td> <td>12</td> <td>Pcs.</td> <td>657.00</td> <td>0.00 %</td> <td>584.00</td> <td>12.50 %</td> <td>876.00</td> <td>7,884.00</td> </tr> <tr> <td>3.</td> <td>SSK-CL-R-2W - C 3000K Led Cabinet Light 3W Round Clear 3000K</td> <td>18</td> <td>Pcs.</td> <td>174.00</td> <td>0.00 %</td> <td>154.67</td> <td>12.50 %</td> <td>348.00</td> <td>3,132.00</td> </tr> <tr> <td colspan="8"></td> <td>20,388.00</td> <td></td> </tr> <tr> <td colspan="8">Grand Total</td> <td>42 Pcs.</td> <td>20,388.00</td> </tr> </tbody> </table>				S.N.	Description of Goods	Qty.	Unit	List Price	Discount	Price	VAT %	VAT Amt.	Amount(Rs.)	1.	SSK-PA23-46F-6500K Led Panel Light (Round) 12W, 6500K, 6"	12	Pcs.	781.00	0.00 %	694.22	12.50 %	1,041.33	9,372.00	2.	SSK-PA23-44E-6000K Led Panel Light (Round) 8W, 6000K	12	Pcs.	657.00	0.00 %	584.00	12.50 %	876.00	7,884.00	3.	SSK-CL-R-2W - C 3000K Led Cabinet Light 3W Round Clear 3000K	18	Pcs.	174.00	0.00 %	154.67	12.50 %	348.00	3,132.00									20,388.00		Grand Total								42 Pcs.	20,388.00
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Grand Total								42 Pcs.	20,388.00																																																						
Sale @12.5%=18,122.67 VAT=2,265.33 Rupees Twenty Thousand Three Hundred Eighty Eight Only																																																															
DECLARATION "I/We hereby certify that my/our registration certificate under the Maharashtra Value Added Tax 2002 is in force on the date on which The sale of goods specified in this Tax Invoice is made by me/us and that the transaction of sale covered by this Tax Invoice has Been effected by me/us and it shall be accounted for turnover of sales which filling of the return and the due tax. If any payable On the sale has been paid shall be paid																																																															
Terms & Conditions E & O.E. 1. Goods once sold will not be taken back. 2. Subject to 'Nagpur' Jurisdiction only. 3. This is a computer generated invoice and hence It doesn't need any signature.		Receiver's Signature : <div style="text-align: right;"> For PAREKH COMMUNICATION Authorised Signatory </div>																																																													



Swargiya Jagannath Jattewar Shikshan Sanstha , Nagpur




Institute of design education & architectural studies , Nagpur

: 27660715348V		CST No.: 27660715348C							
<< TAX INVOICE >> PAREKH COMMUNICATION SHIV SADAN COMPLEX, PAREKH COMPOUND, OPP.LIFE CARE HOSPITAL FIRE BRIGADE ROAD, LAKADGANJ, NAGPUR 440008. Tel. : 0712-2725005, 3244432, 9326005400 email : zulkifl@parekhgroup.org									
Party Details : Ideas Institute of Design Education, Hudkeshwar Outer Ring Road Nagpur 09823097688 Party TIN :		Invoice No. : L-808 Dated : 13-09-2016 (03:45 PM) Delivery Address : : : : :							
S.N.	Description of Goods	Qty.	Unit	List Price	Discount	Price	VAT %	VAT Amt.	Amount(Rs.)
1.	SSK-PA2344E-6000K Led Panel Light (Round) 8W, 6000K	4	Pcs.	657.00	0.00 %	584.00	12.50 %	292.00	2,628.00
ok 13/9/16 Grand Total									2,628.00
Sale @12.5%=2,336.00 VAT=292.00 Rupees Two Thousand Six Hundred Twenty Eight Only									2,628.00
DECLARATION "I/We hereby certify that my/our registration certificate under the Maharashtra Value Added Tax 2002 is in force on the date on which The sale of goods specified in this Tax Invoice is made by me/us and that the transaction of sale covered by this Tax Invoice has Been effected by me/us and it shall be accounted for turnover of sales which filling of the return and the due tax. If any payable On the sale has been paid shall be paid									
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Swargiya Jagannath Jattewar Shikshan Sanstha , Nagpur


Institute of design education & architectural studies , Nagpur

IN : 27660715348V		<< TAX INVOICE >>		CST No.: 27660715348C					
PAREKH COMMUNICATION SHIV SADAN COMPLEX, PAREKH COMPOUND, OPP.LIFE CARE HOSPITAL FIRE BRIGADE ROAD, LAKADGANJ, NAGPUR 440008. Tel : 0712-2725005, 3244432, 9326005400 email : zulkifl@parekhgroup.org									
Party Details : Ideas Institute of Design Education, Hudkeshwar Outer Ring Road Nagpur 09823097688 Party TIN :			Invoice No. : L-846 Dated : 19-09-2016 (04:53 PM) Delivery Address : : : : :						
S.N.	Description of Goods	Qty.	Unit	List Price	Discount	Price	VAT %	VAT Amt.	Amount(Rs.)
1.	SSK CL-R-2W - C 3000K Led Cabinet Light 2W Round Clear 3000K	6	Pcs.	174.00	0.00 %	153.30	13.50 %	124.18	1,044.00
 20/9/16  20/9/16									1,044.00
Grand Total									1,044.00
Sale @13.5%=919.82 VAT=124.18 Rupees One Thousand Forty Four Only									
DECLARATION "I/We hereby certify that my/our registration certificate under the Maharashtra Value Added Tax 2002 is in force on the date on which The sale of goods specified in this Tax Invoice is made by me/us and that the transaction of sale covered by this Tax Invoice has Been effected by me/us and it shall be accounted for turnover of sales which filling of the return and the due tax. If any payable On the sale has been paid shall be paid									
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<< TAX INVOICE >> PAREKH COMMUNICATION SHIV SADAN COMPLEX, PAREKH COMPOUND, OPP.LIFE CARE HOSPITAL FIRE BRIGADE ROAD, LAKADGANJ, NAGPUR 440008. Tel. : 0712-2725005, 3244432, 9326005400 email : zulkifl@parekhgroup.org									
Party Details : Ideas Institute of Design Education, Hudkeshwar Outer Ring Road Nagpur 09823097688 Party TIN :		Invoice No. : L-852 Dated : 19-09-2016 (07:01 PM) Delivery Address : : : : :							
S.N.	Description of Goods	Qty.	Unit	List Price	Discount	Price	VAT %	VAT Amt.	Amount(Rs.)
1.	SSK-PA2344E-6000K Led Panel Light (Round) 8W, 6000K	10	Pcs.	578.00	0.00 %	578.86	13.50 %	781.45	6,570.00
									6,570.00
Grand Total									10 Pcs.
									6,570.00
Sale @13.5%=5,788.55 VAT=781.45 Rupees Six Thousand Five Hundred Seventy Only									
DECLARATION "I/We hereby certify that my/our registration certificate under the Maharashtra Value Added Tax 2002 is in force on the date on which The sale of goods specified in this Tax Invoice is made by me/us and that the transaction of sale covered by this Tax Invoice has Been effected by me/us and it shall be accounted for turnover of sales which filing of the return and the due tax. If any payable On the sale has been paid shall be paid									
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TIN : 27660715348V

CST No.: 27660715348C

<< TAX INVOICE >>

PAREKH COMMUNICATION

SHIV SADAN COMPLEX, PAREKH COMPOUND, OPP.LIFE CARE HOSPITAL
FIRE BRIGADE ROAD, LAKADGANJ, NAGPUR-440008.
Tel. : 0712-2725005, 3244432, 9326005400 email : zulkiff@parekhgroup.org

Party Details :

Ideas Institute of Design Education,
Hudkeshwar Outer Ring Road
Nagpur
09823097688

Party TIN :

Invoice No. : L-1156
Dated : 26-10-2016 (12:35 PM)
Delivery Address :

S.N.	Description of Goods	Qty.	Unit	List Price	Discount	Price	VAT %	VAT Amt.	Amount(Rs.)
1.	SSK-SDCB-BW-640BK-WHT	9	Pcs.	950.00	0.00 %	837.00	13.50 %	1,016.96	8,550.00
<p>OK 26/10/2016</p> <p>OK 26/10/2016</p>									8,550.00
Grand Total									8,550.00

Sale @13.5%=7,533.04 VAT=1,016.96

Rupees Eight Thousand Five Hundred Fifty Only

DECLARATION

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Terms & Conditions

E & O.E.

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Authorised Signatory



Swargiya Jagannath Jattewar Shikshan Sanstha , Nagpur

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PAREKH COMMUNICATIONSHIV SADAN COMPLEX, PAREKH COMPOUND, OPP. LIFE CARE HOSPITAL
FIRE BRIGADE ROAD, LAKADGANJ, NAGPUR 440008.

Tel : 0712-2725005, 3244432, 9326005400 email : zulkifl@parekhgroup.org

Party Details :Ideas Institute of Design Education,
Hudkeshwar Outer Ring Road
Nagpur
09823097688

Party TIN :

Invoice No. : L-1242
Dated : 05-11-2016 (01:31 PM)
Delivery Address :
:
:
:
:

S.N.	Description of Goods	Qty. Unit	List Price	Discount	Price	VAT %	VAT Amt.	Amount(Rs.)
1.	SSK BH-9W-6500K	3 Pcs.	765.00	0.00 %	765.00	13.50 %	309.82	2,604.82

OK
Parekh
29/11/2016 2605/-
Forwarded
for payment
18/4/17

2,604.82
0.18

Add : Rounded Off (+)

Grand Total 3 Pcs.

2,605.00

Sale @13.5%=2,295.18 VAT=309.82

Rupees Two Thousand Six Hundred Five Only

DECLARATION

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Receiver's Signature :

For PAREKH COMMUNICATION

Authorised Signatory



: 27660715348V		CST No.: 27660715348C							
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Party Details : Ideas Institute of Design Education, Hudkeshwar Outer Ring Road Nagpur 09823097688 Party TIN :		Invoice No. : L-1369 Dated : 22-11-2016 (06:22 PM) Delivery Address : : : : :							
S.N.	Description of Goods	Qty.	Unit	List Price	Discount	Price	VAT %	VAT Amt.	Amount(Rs.)
1.	SSK RB 4501 6500K-B22	4	Pcs.	1,148.00	0.00 %	1,148.00	6.00 %	275.52	4,867.52
									4,867.52
Add. : Rounded Off (+)									0.48
Grand Total 4 Pcs.									4,868.00
Sale @6%=4,592.48 VAT=275.52 Rupees Four Thousand Eight Hundred Sixty Eight Only									
DECLARATION "I/We hereby certify that my/our registration certificate under the Maharashtra Value Added Tax 2002 is in force on the date on which The sale of goods specified in this Tax Invoice is made by me/us and that the transaction of sale covered by this Tax Invoice has Been effected by me/us and it shall be accounted for turnover of sales which filling of the return and the due tax. If any payable On the sale has been paid shall be paid									
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Swargiya Jagannath Jattewar Shikshan Sanstha , Nagpur

Institute of design education & architectural studies , Nagpur

27660715348V CST No.: **27660715348C**

<< TAX INVOICE >>

PAREKH COMMUNICATION
SHIV SADAN COMPLEX, PAREKH COMPOUND, OPP. LIFE CARE HOSPITAL
FIRE BRIGADE ROAD, LAKADGANJ, NAGPUR 440008.

L-1709

Ideas Institute of Design Education,
Hudkeshwar Outer Ring Road
Nagpur
09823097688

Invoice No. : L-1709
Dated : 10-01-2017 (12:15 PM)
Delivery Address :

Party TIN :

S.N.	Description of Goods	Qty.	Unit	List Price	Discount	Price	VAT %	VAT Amt.	Amount(Rs.)
1.	SSK BH-9W-6500K	7	Pcs.	765.00	0.00 %	765.00	13.50 %	722.92	6,077.92
2.	SSK SKE-8B BW-5700K	10	Pcs.	566.04	0.00 %	566.04	6.00 %	339.62	6,000.02
Grand Total									12,077.94
									0.06
									12,078.00

Forwarded for payment
18/4/17
6077/-
6077/-

DECLARATION
*I/We hereby certify that my/our registration certificate under the Maharashtra Value Added Tax 2002 is in force on the date on which The sale of goods specified in this Tax Invoice is made by me/us and that the transaction of sale covered by this Tax Invoice has Been effected by me/us and it shall be accounted for turnover of sales which filling of the return and the due tax. If any payable On the sale has been paid shall be paid

Terms & Conditions
E & O.E.
1. Goods once sold will not be taken back.
2. Subject to 'Nagpur' Jurisdiction only.
3. This is a computer generated invoice and hence It doesn't needs any signature.

Receiver's Signature :

For PAREKH COMMUNICATION
[Signature]
Authorised Signatory

2. LIST OF LIGHTS IN THE CAMPUS

LIST OF LIGHTS IN CAMPUS									
ROOMS	Tubelights			LED			CFL		
	NOS.	WATTS		NOS.	WATTS		NOS.	WATTS	
STUDIO 1	24	36	864	-					
STUDIO 2	12	36	432	-					
STUDIO 3	11	36	396	-					
STUDIO 4	13	36	468	-					
STUDIO 5	11	36	396	-					
STUDIO 6	4	36	144	0					
STUDIO8	12	36	432	-					
STUDIO 9	24	36	864	-					
STUDIO 10	13	36	468	-					
STUDIO 11	15	36	540	-					
STUDIO 12	12	36	432	-					
STUDIO 13	13	36	468	-					
AV ROOM 1	4	36	144				8	9	72
AV ROOM 2	4	36	144	-					
AV ROOM 3	4	36	144	-					
AV ROOM 4	4	36	144	-					
AV ROOM 5	7	36	252	-					
WORKSHOP	6	36	216	-					
SURVEY LAB	0	36	0	36	20	720			
				18	2	36			
GIRLS COMMON ROOM	4	36	144	-					
GIRLS WASHROOM	2	36	72	-					
BOYS WASHROOM	1	36	36	-					
FACULTY LOUNGE	7	36	252	-					
M.ARCH 1	0	36	0	8	12	96			
M.ARCH 2	0	36	0	12	12	144			
M.ARCH STUDIO	0	36	0						
Ground floor corridor	7	36	252	11	8				
First floor corridor	21	36	756	0					
STAFFROOM 1	3	36	108	1	18	18	4	9	36
	2	40	80						
STAFFROOM 2	10	36	360						
STAFFROOM 3	7	36	252						
STAFFROOM 4	6	36	216						
COMPUTER ROOM	4	36	144	8	10	80			
LIBRARY	8	36	288				5	9	45
OFFICE	4	36	144	1	20	20	2	9	18
M.K.G.'s CABIN	3	36	108	0			2	9	18
A. V. P. 's CABIN	0	36	0	1	20	20	2	36	72
				4	7	28			
U. C. G.'s CABIN	0	36	0	1	20	20	2	36	72
ENTRANCE LOBBY	0	36	0	4	45	180			
O. A. T.	0	36	0	10	9	90			
PORCH	4	36	144						
NAAC ROOM	4	36	144						
1ST FLOOR WASHROOM			0	6	12	72			
	290		3500	121		1524	25		333
TOTAL LIGHTING POWER REQUIREMENT IN WATTS per HR				5357					3833
TOTAL LIGHTING POWER REQUIREMENT IN WATTS per DAY				37499		10668			26831
TOTAL LIGHTING POWER REQUIREMENT IN WATTS per MONTH				899976		256032			643944
ANNUAL LIGHTING POWER REQUIREMENT IN WATTS				10799712		3072384			7727328
ANNUAL LIGHTING POWER REQUIREMENT IN KWH				10799.71		3072.384			7727.328
PERCENTAGE OF LIGTHING MET THROUGH LED				28%					72%
PERCENTAGE OF LIGTHING MET THROUGH OTHER SOURCES				72%					



LED lights in Administration



LED light in office



LED lights in staffroom



LED light in Director's office



LED lights in Principal's Office

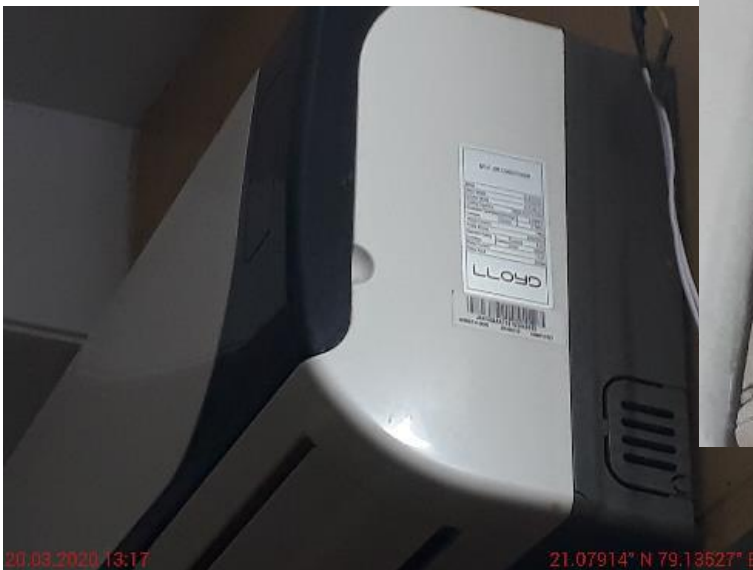


LED light in computer lab

15. Install energy efficient cooling system and appliances- BEE star rated.

No.of Airconditioners installed –

1. Principal's Cabin	- 1
2. Director's Cabin	-2
3. Computer Lab	- 2
4. G.F. Staff room	- 2
5. Auditorium	-3
6. AV rooms	- 5
Total	15







16. Provide water efficient irrigation system.

Sprinkler system is installed



17. Make use of environment-friendly cleaning and for housekeeping materials



Patanjali products are used for cleaning

18. As per sanctioned drawings of building, the Building roof area if more than 25% of the total hard paved area, then it should be painted with high SRI paint.

12% of shading is due to solar panels. Rest will be painted in high SRI paint



19. Provide an electrical charging point (15 Amp) with signage at parking space.





Reserved Parking Space for Carpooling and EV Vehicles

20. Provide preferred parking space for pooled vehicles with signage.

13 faculty members and 22 students use carpooling. Parking space is allocated for carpooling vehicles.



21. Provide shuttle service for the building occupants.

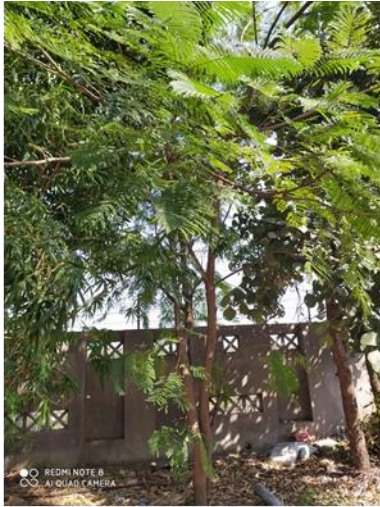
Bus service is provided for students and staff

Students Availing Bus Service					
Year	2014-15	2015-16	2016-17	2017-18	2018-19
1st	80	79	51	51	60
2nd	38	44	46	18	15
3rd	20	6	6	1	2
4th	4	9	0	0	0
Total	142	138	103	70	77
	38%	31%	23%	14%	15%

22. Plant native trees on site at the proportion of the 1 mature tree per 80sqm of the plot area.

The college has 73 trees





Gulmohar Tree



Palash Tree



Sita Ashok



Neem Tree



Saptaparni Tree



Karanji Tree




Yellow Copperpod



Bamboo & Badam

23. Conduct water quality test report as per CPCB /BIS Standards.



ANACON LABORATORIES PVT. LTD.
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Organization
Recognized By Ministry of Environment & Forests (MoEF), New Delhi
Accredited By Quality Council of India by - NABET

TEST REPORT

Test Report No. : ALPL/17032020/02

dated 17.03.2020

Page 1 of 1

Issued To : M/s Institute of Design Education & Architectural Studies Nagpur Hudkeshwar Road, Outer Ring Road, Junction Point, At Post Pipala, Nagpur 440037 Kind Attention : Mr. Ravi Atre Contact No. : 9423678464	Sample Inward No. 2020/W-45/1-1 Inward Date 07.03.2020 Reference Verbal Communication Reference Date 07.03.2020	Analysis Start 09.03.2020 Analysis End 17.03.2020 Sample Category Water
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Sample Name Water	Sample Particulars / Details RO Water	Purpose of Analysis Drinking	Quantity Received 1 L
Sample Collected By M/s Institute Of Design Education & Architectural Studies Nagpur		Sampling Location Not Mentioned	
Tests Required : Total coliform, pH, Colour, Odour, Turbidity, Total dissolved solids, Sulphate, Nitrate, Chloride, Calcium, Fluoride, Magnesium, Total hardness, Iron.			


TEST RESULTS

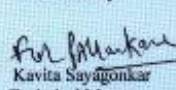
S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 2		Test Result
				Acceptable Limit	Permissible Limit ^a	
I Biological Testing						
I. Water						
1	Total coliform	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
II Chemical Testing						
I. Water						
2	pH	-	IS 3025 (Part 11) : 1983	6.5 to 8.5	No relaxation	7.33 at 25°C
3	Colour	Hazen units	IS 3025 (Part 4) : 1983	5	15	BDL (DL - 1)
4	Odour	-	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS 3025 (Part 10) : 1984	1	5	BDL (DL-0.1)
6	Total dissolved solids	mg/l	IS 3025 (Part 16) : 1984	500	2000	1248
7	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 1986	200	400	97.20
8	Nitrate (as NO ₃)	mg/l	APHA Method 23 Edition	45	No relaxation	2.96
9	Chloride (as Cl)	mg/l	IS 3025 (Part 32) : 1988	250	1000	50.02
10	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	88.2
11	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	1.17
12	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : 1994	30	100	43.46
13	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	399
2. Residues in Water						
14	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2004	1.0	No relaxation	0.27


NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only. • Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Liability of Anacon Labs is limited to invoiced amount only. • Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. • 'mg/l' is equivalent to 'ppm'. • BDL- Below detection limit • DL- Indicates detection limit of instrument/method and shall be considered as 'absent'.

REMARKS: As requested by the client, sample was tested for above parameters only. As per IS 10500 : 2012, for test no. 6, 10, 11, 12 & 13 sample exceeds acceptable limit, however, the result is within permissible limit, indicating that with respect to the tested parameter, it can be used for drinking purpose in absence of an alternate source.

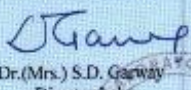
Verified By


 Swati Shrivastava
 Technical Manager

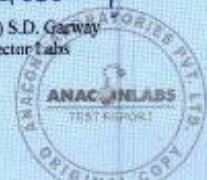

 Kavita Sayagonkar
 Technical Manager


 Pooja Kathane
 Technical Manager

Authorized Signatory


 Dr. (Mrs.) S.D. Garway
 Director Labs

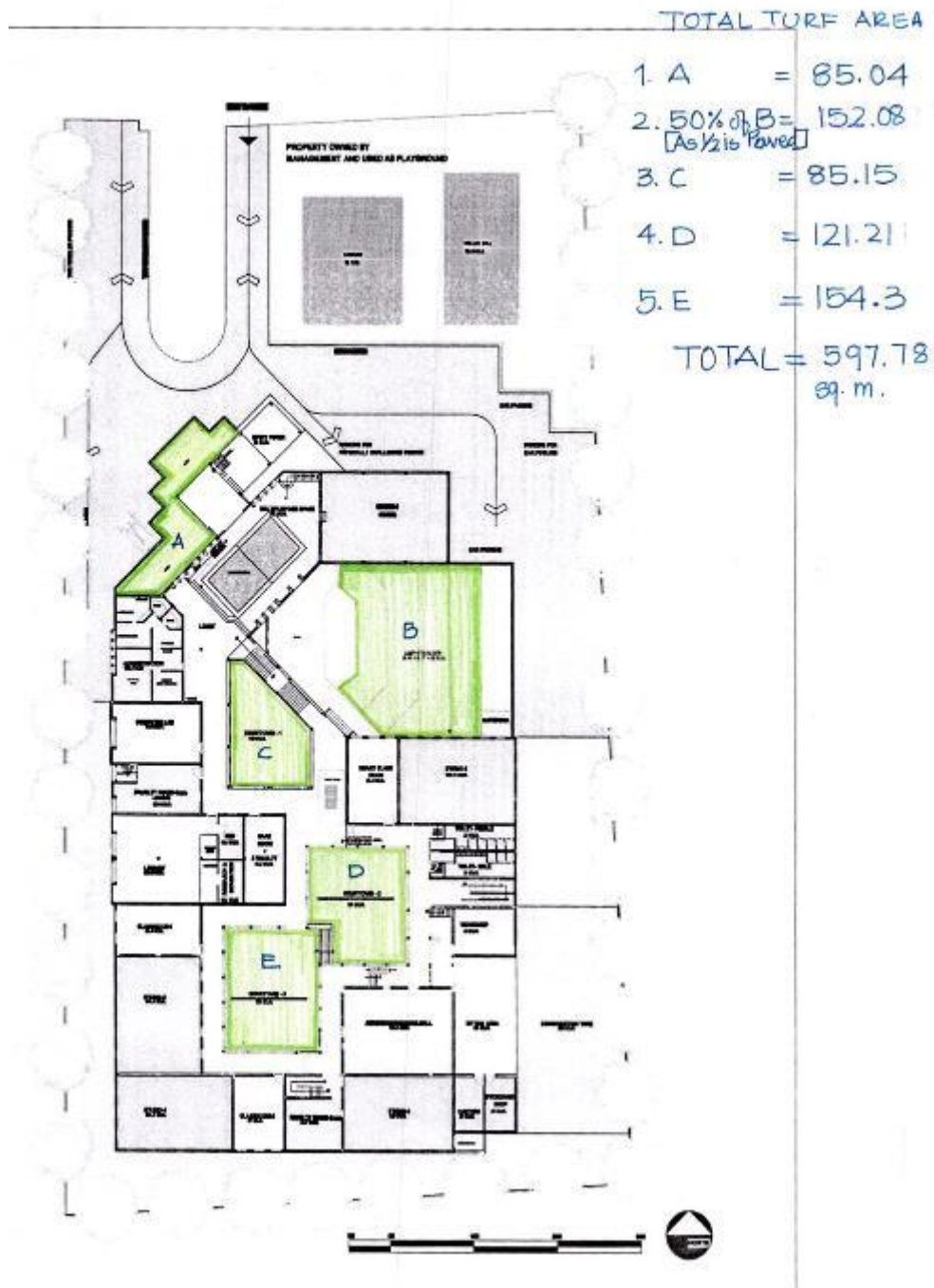
Head Office : 60, Bajiraothu Nager, Nagpur - 440033 India. Ph. No. 9372404824. Email : support@anacn.in
 Lab : FP 34-35, Food Park, Five Star Estate, MIDC Buttori, Nagpur - 441122. Mob. No. 9373267475. Email : labnpg@anacn.in
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24. Provide a composting pit for organic waste or organic waste composter on site.

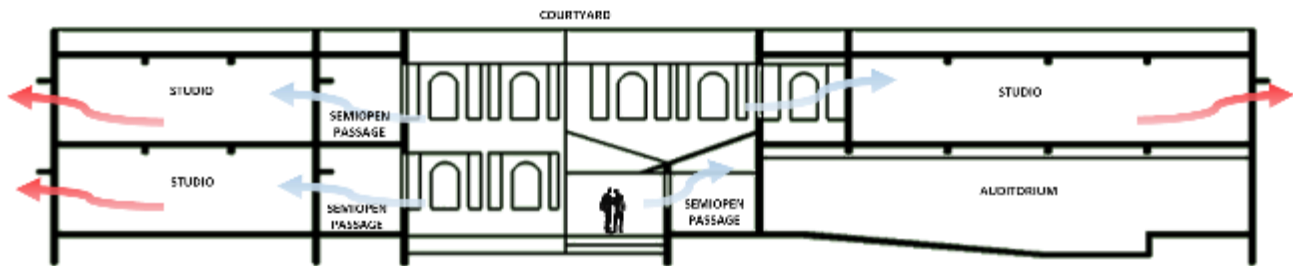


25. Reduce turf area It is recommended that Turf area shall be 25% of total landscape area



26. Fresh Air Ventilation – Provide adequate outdoor air ventilation to avoid pollutants affecting indoor air quality. For Naturally Ventilated Spaces Demonstrate that the ratio of openable area to the carpet area is at least 4% in each regularly occupied zone.

The institute has ample of light and ventilation since the building is designed to be one room deep at all sections. Each room opens on to a shaded semi-open passage which allows air flow and light to come in. The central courtyards are landscaped. Thus the air here is cool. It flows into the rooms and replaces the hot air. There are windows on at least two sides to allow cross ventilation. The passages cut glare and allow more shaded light inside the rooms.



SECTION THROUGH THE BUILDING

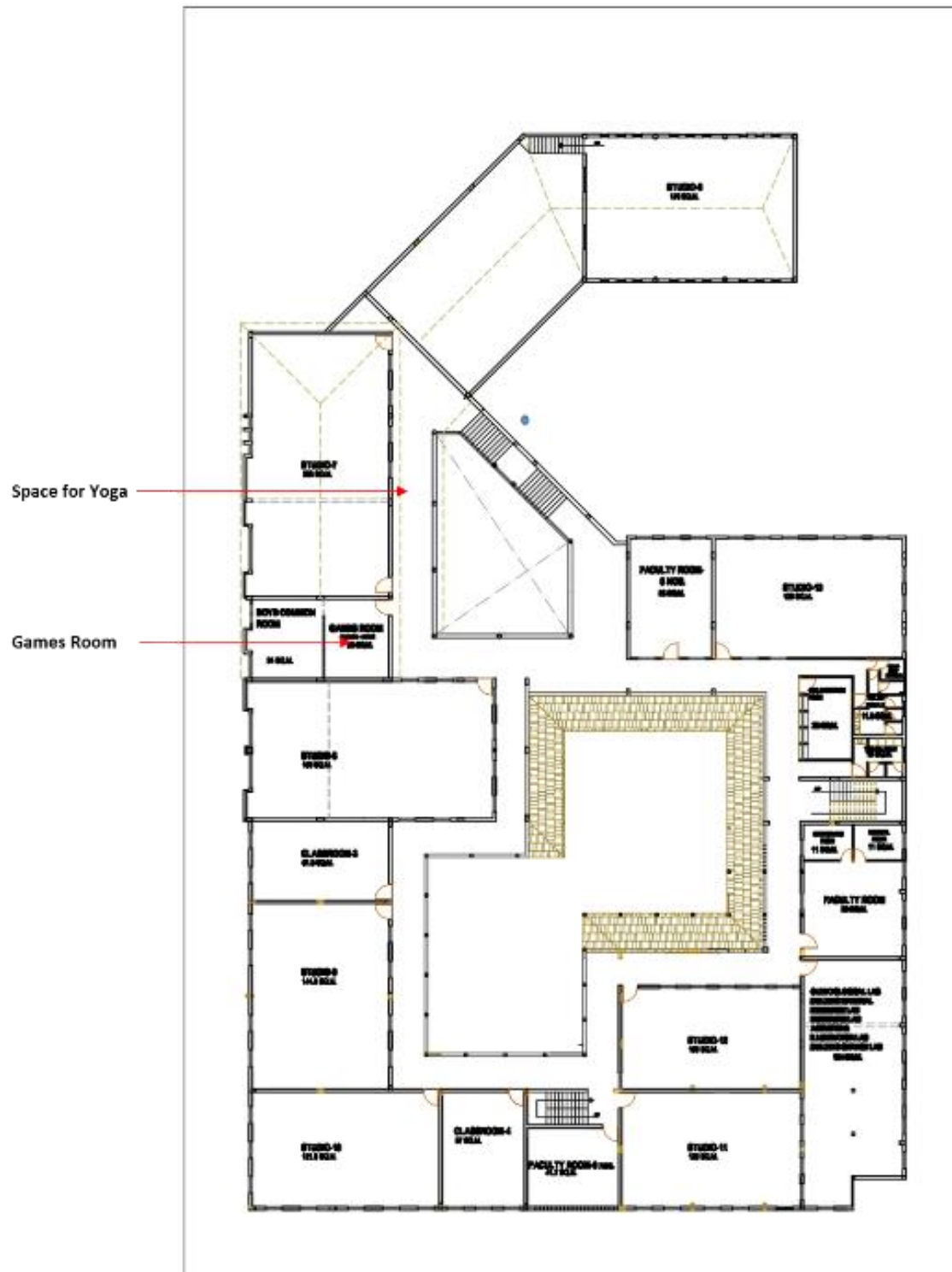
27. Occupant Well-being Facilities Ensure that the project has at least 2 occupant well-being facilities (such as gymnasium, aerobics, yoga, meditation or any indoor / outdoor games) to cater to at least 10% of building occupants, through the day.

Facilities Available

S No	Facility	No. of Participants
1	Volley Ball Court	12
2	Kabaddi Court	24
3	Badminton Court	4
4	Table Tennis	4
5	Indoor Games- Carom/ Chess	6
6	Space for Yoga / Meditation	25
Total Participants		75



Facilities for Well Being of Residents – Ground Floor Plan



Facilities for Well Being of Residents – First Floor



Volleyball Court



Badminton Court



Kho-kho played in kabbadi court



Chess in games room

28. Ensuring thermal comfort as per NBC 2005 or ASHRAE 55. Indoor noise level and daylight levels.

- Ensuring thermal comfort as per NBC 2005 or ASHRAE 55.
- Ensure indoor noise level as per NBC norms to enhance comfort level
- Ensure adequate daylight levels Ensure artificial lighting Lux level report as per NBC 2005.

Sr.no	Name of Location (Ground Floor)	Readings observed from the location				
		Temperature (degree centigrade)	Humidity- RH	artificial lighting Lux level	daylight levels Lux level	Indoor noise level (decibel)
1.	Office	26.6	58.2	232	60	50.8
2.	Principals cabin	26.9	50.2	263	52	53.8
3.	Computer lab	26.9	55.6	263	35	43
4.	Staff room	26.9	58.6	289	56	57.7
5.	Library	26.4	50.6	265	154	42.1
6.	Classroom 1	26.8	58.8	238	80	46.8
7.	A. V. Room 2	24.7	56.7	265	33	43
8.	Classroom near foyer	26	57.3	235	63	55.7
9.	Auditorium	23.6	50.2	266	30	44

29. Innovation Credits- To encourage innovation in performance of existing buildings to reduce environmental impacts.

In an initiative to increase the green landscape of the IDEAS campus it was decided to conduct a Tree Plantation Week. The objective was to ask faculty members to adopt a tree which would encourage to look after it, water it and ensure its growth especially during the harsh summer months.

A list was also provided of native trees for the members to choose from. The administration staff were encouraged by this initiative and decided to contribute by planting mango, guava and neem trees in the front area of the campus. They ensured that the trees were safe by covering them with tree guards.



Swargiya Jagannath Jattewar Shikshan Sanstha , Nagpur
Institute of **d**esign **e**ducation & **a**rchitectural **s**tudies , Nagpur
Campus - Hudkeshwar Road - Outer Ring Road, Junction Point, post-Pipla, Nagpur - 440034 (M.S) India. ideasnag@gmail.com

Leave a legacy
with the simple
gift of life

Adopt a Tree!



Planting a tree is one of the most powerful ways in which you can make a difference for the environment.

This year 2020 we need your help not just in planting the sapling, but in nurturing it to life and being responsible for its growth.

IDEAS celebrates

Adopt-a-Tree Week 26th-31st January

This week we encourage you to

1. Choose a spot on the campus
2. Buy a sapling (we will give you a few pointers)
3. Plant your tree
- 4. CARE for YOUR tree**
5. Meet us same time next year for a group photo!

Let's Make our Campus Green!

An Initiative by Environmental Committee under IQAC, IDEAS

DECLARATION

We hereby declare that Institute of Design Education and Architectural Studies (IDEAS) , Nagpur entitled for Existing green building program shall henceforth implement the following strategies by 30th June 2020.

1. Phase out all the ozone depleting potential air conditioners units with eco-friendly refrigerants (R-410A,R-32, R-134A,R-290,R-600A) for air conditioners units.
2. High SRI (Solar reflective index) paints shall be applied on roof paints
3. Ramps shall be made as per standards of NBC 2017



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FINAL GREEN BUILDING AUDIT FOR EXISTING BUILDING

GREEN BUILDING AUDIT CERTIFICATE

**Project name – IDEAS-Institute of Design Education &
Architecture Studies**

Location – Nagpur

This is to certify that the Existing Green Building Audit is done for IDEAS - Institute of Design Education & Architecture Studies, Nagpur and the team IDEAS has successfully achieved the green building standards required for sustainable and green building. However, some strategies will be implemented within 3 months from the date of final report and the declaration for the same is attached in the report.

Note : This is not green building rating system report or recommendations from any rating system.

Ar. Manisha Gotmare

Environmental Architect , Green Building consultant IGBC AP, GRIHA EB-intern

Date – 20-03-2020