

**TO WHOMSOEVER IT MAY CONCERN**

Our Firm is Registered as a **Schedule II Environmental Auditor** with **Gujarat Pollution Control Board (GPCB)**. The firm is also certified by National Accreditation Board for Testing and Calibration Laboratory (NABL) as per **ISO/IEC 17025:2017**; also an **ISO 45001:2018 (OHSMS)**; **ISO 14001 : 2015 (EMS)** Certified.

This is to Certify that the **Audit Team** of **CCS Enviro Control LLP**, has audited the **Environment Management System** of **Gurukul Mahila Arts & Commerce College – Porbandar** and the same is found **Adequate and Efficient with respect to Green Audit Mechanism**.

Date: 22/04/2021

CCS Enviro Control LLP.,



Place: Rajkot

Authorized Signatory



## ***RAPID GREEN AUDIT REPORT OF***

Gurukul Mahila Arts & Commerce College,  
Porbandar

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**MARCH – 2019**

**Audited By:**



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## **(1) Auditor:**

M/s. Comet Consultancy Services (CCS) is an Environmental Auditor, possessing adequate capabilities; expert manpower; laboratory; infrastructure for carrying out the audit in terms of Environmental management systems & practices. The CCS is registered with nodal Environmental statutory department i.e. Gujarat Pollution Control Board as a schedule II Environmental Auditor & the copy of registration is enclosed. The laboratory of CCS is certified by National Accreditation Board for Testing and Calibration Laboratory (NABL) as per ISO/IEC 17025:2005.



**GUJARAT POLLUTION CONTROL BOARD**  
**Paryavaran Bhavan**  
 Sector - 10 A, Gandhinagar - 382 010.  
 Environment Audit Cell

No. GPCB/EA-59(4)/ 153384 )

1 FEB 2019  
 RPAD

**To,**  
**Comet Consultancy Services**  
 201-202, Sterling Aptt. 1st floor,  
 Jawahar Road, Rajkot - 360 001

**Subj:-** Recognition as Schedule- II Environmental Auditor.

Sir,

This refers to your application for the recognition as Environmental Auditor, subsequent interview and visit of your Laboratory by Environment Audit Committee members. It is recommended by the Environment Audit Committee members, to recognize your firm as Schedule-II Environmental Auditor for carrying out the Environmental Audit under Environment Audit Scheme with following conditions.

- 1) Recognition is valid upto **31/12/2020**.
- 2) You shall have maximum **One** team for the Environment Audit.
- 3) You shall carry out maximum **15** nos. of Environment Audit.
- 4) Team members shall be as under :

Sr. No.	Name	Designation
1	Mr. Neeldeep Jadeja	Environment Engineer
2	Mr. Uday Jadeja	Chemical Engineer
3	Mr. Hitendra Jadeja	Chemist
4	Mr. Kalpesh Shah	Microbiologist

- 5) You shall prepare and submit the Environment Audit report and to comply the conditions for Environment Auditors as per the Hon'ble High Court order dated 20/12/1996, 13/03/1997, 16/09/1999, and also the Guidelines prepared by Gujarat Pollution Control Board in this regard, for the Environment Audit Scheme along with the Adequacy and Efficacy certificates as per prescribed format.
- 6) Environment Audit Report shall be submitted in prescribed format.
- 7) You shall apply for renewal of Environmental Auditor 3 months before expiry of the recognition with the scrutiny fees to this Board.
- 8) This recognition is subject to periodic evaluation of your facility and subject to change based on performance.


(P.T.O)

**Clean Gujarat Green Gujarat**  
**An ISO 9001: 2008 & ISO 14001: 2004 Certified Organization**

- 9) Any change in man power, team members, laboratory infrastructure, laboratory address etc., without prior appraisal of Environment Audit Committee and prior approval of Board, this recognition will automatically stands cancelled.

This letter is issued with the permission of competent authority.

For and on behalf of GPCB,

  
**(Sushil Vagda)**  
 Senior Environment Engineer  
 Environment Audit Cell

## **(2) Audit Site Visit:**

With a view to ascertain the adequacy of Environmental management system & further requirements a site visit was conducted by Mr. Hitendra J. Jadeja of Comet Consultancy Services on 12/03/2019. During the visit a thorough environment was carried out by the auditor along with the Principal Dr. Anupam R. Nagar & the staff to collect the relevant background data for the audit in term of air; water; energy conservation etc.



### **(3) Audit Observation:**

- The Institution is a plastic free campus.
- The domestic sewage is being discharged off by septic tank & soak pit.
- The campus has an in-house canteen for students but no meals are prepared only light refreshment are substantiated.
- The canteen contractor manages the canteen waste by collecting the sewage & disposing off to the municipal authorities.
- E-waste from the computer laboratory is given back to the supplier for onward disposal to E-waste site registered recyclers of E-waste.
- There is no Air pollution potential from the campus since it does not use any fuel or does not have an in-house D.G. set.
- Drinking water is supplied by the Arya Kanya Gurukul Trust & then it is R.O. purified before supply, while Saurashtra Cement supplied tankers for watering the plants & flowers in the College.
- The authorities have a water harvesting plan in place to collect the rain water & recycle the same.
- Green belt has been developed within the campus.

- First Aid box is available at the campus & the campus has affiliation with nearby bedded dispensary for any medical requirements.
- For energy conservation the campus has replaced the lighting through LED lamps.
- The noise levels at the campus was found to be within the limits since the campus is located in a remote virgin, serene area & there is no locality; industry etc. nearby vehicles; cycling is encouraged with students.
- Paper waste is send for recycling through the scrap vendor from library; office; store; classroom.
- Efforts are being made for rain water harvesting to reduce the usage of well and water from tanks.
- Staff and students are instructed not to waste water unnecessarily.
- Students are periodically told in the morning assembly about the importance of water harvesting.

- Efforts are being made to channelize rain water from the terrace of the building to the underground storage tank in the college campus.
- Efforts are also being made by the management to facilitate ground water recharge.
- The Institution seeks to encourage cycling among students and faculty members to improve the overall health and well-being of the campus community. In addition, cycling as a means of transportation is virtually cost-free, non-polluting and environment friendly.
- The Institution encourages the use of public transport. In fact the institution has requested the municipality authorities to adjust the bus timings as per college time-table and they have complied accordingly.
- The institution also teaches the students to practice transportation etiquette as remaining polite and courteous; not blocking the flow of traffic; offering seats to the elderly or injured person etc.



- The institution aims to become a plastic free campus to reduce plastic pollution on college campus with a special focus on the reduction and ultimately the elimination of plastic bottles, plastic straws and poly bags. An Eco Club has been set up to promote & monitor such green practices.
- The Administrative section of the Institution also aims to become a paperless office as it happens to be a much better and green option as compared to the use of paper, which would help in reducing carbon footprint and save time.
- The management has been on the front into making **Green Gurukul**. The college campus has over 100 plantations of Neem trees and the front quadrangle has been transformed into a beautiful garden.
- The college organizes various awareness programmes for the students in order to involve them in maintaining an eco-friendly Environment. A few plants of medicinal value are also available. The Institution encourages students to display the aim in the

campus “Go Green “, “Think Green!”, “Create Green” and “Save Green”.

## **(4) Recommendation:**

- A membership with recycler registered with GPCB may be obtained for ultimate disposal of E-waste.
- A sewage treatment plant may be installed for treating the domestic sewage & ultimate recycling of the treated waste water for green belt.
- The proposed water harvesting plan should be implemented.
- Regular up keeping & enhancement of green belt should be practiced within the campus.
- Environmental & Health policy shall be formulated & displayed at various section such as canteen; computer laboratory; toilets; of the campus meeting Environment conservation methods & green practices.
- Solar system on roof top of the campus will be installed for energy conservation.

- Environmental Management Audit cell shall be formulated comprising of staff & students representation headed by the principal to look after the day to day compliance of the Environmental management system & practice & provide monthly review meeting be convened for the same.

## **(5) Conclusion:**

We the auditor Comet Consultancy Services believe that we have successfully completed the analysis of various environmental components viz; Air; Water; Waste etc. We are hopeful that the suggestion put forward by the college & implemented at the earliest to ensure compliance to various statutory environmental norms & in accordance with relevant rules & regulations & a better environment friendly Institution.

Date: 14/03/2019

for, Comet Consultancy Services,



Place: Rajkot

A handwritten signature in blue ink, appearing to read "Hitendra J. Jadeja".

Hitendra J. Jadeja

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**KALIDAS ARYA KANYA VIDHYLAYA AND GURUKUL  
PORBANADAR  
PROPOSED FIRE FIGHTING DESIGN REPORT**

**7th SEPTEMBER, 2020**

**Prepared by**



**Aqua Utility Designs and Management Pvt. Ltd., Ahmedabad**

[www.aquadesigns.co.in](http://www.aquadesigns.co.in)

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### **Proposed Fire Fighting System Report for Arya Kanya Gurukul Porbandar**

#### **A) Preamble:**

The fire fighting site report is based on site visit and survey done for existing Arya Kanya Gurukul. As per current prevailing situation, there is no fire fighting system. However, CO2 Fire Extinguisher has been installed in all common passages of school, college and hostel buildings.

So on the basis of site survey AUDMPL come up with External Fire Fighting safety plan with proposed Yard Hydrant System for the fire fighting of each buildings externally. We have proposed design of the Fire Fighting system with bare minimum requirement for existing building.

#### **B) Requirement of NBC Part IV for Fire and Safety :**

- As per NBC Part IV this building comes under Light Hazard.
- As far as NBC Norms, there is no any requirement for Fire fighting protection.
- But for Fire safety we are proposing fire fighting safety from externally in case of fire.
- Fire Extinguishers are required as per NBC Part IV Table No 7.
- We have proposed Fire Extinguishers in all common passages in Ground and First floor.

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### C) Existing Buildings

We have designed Fire Fighting system in two parts as in local terminology as follows:

1. AKG -1 (Arya Kanya Vidhyalaya – 1 ) - Right side of Main road
2. AKG -2 (Arya kanga Vidhyalaya – 2 ) - Left side of Main road

- Buildings cover under AKG – 1 as follows:

- 1) Office Building
- 2) Gujarati medium School Building
- 3) Hostel Building Block – A
- 4) Hostel Building Block – B
- 5) Hostel Building Block – C
- 6) Bhojanalay
- 7) Atithi Bhavan
- 8) Staff Quarters (Block A, B & C )
- 9) Planetorium
- 10) Sarswati Mandir
- 11) Smruti Mandir
- 12) Memorial Hall
- 13) Library
- 14) Savita Didi Residence

- Buildings cover under AKG – 2 as follows:

- 1) Mahila Collage
- 2) Santokba English Medium School

- 
- 3) Administrative Quarter
  - 4) Principal Quarter
  - 5) Staff Quarter (Block I & H)
  - 6) Guest House
  - 7) Entrance Guest room
  - 8) Computer Lab
  - 9) Bharat Mandir

**D) UG storage Tank and Pumping System:**

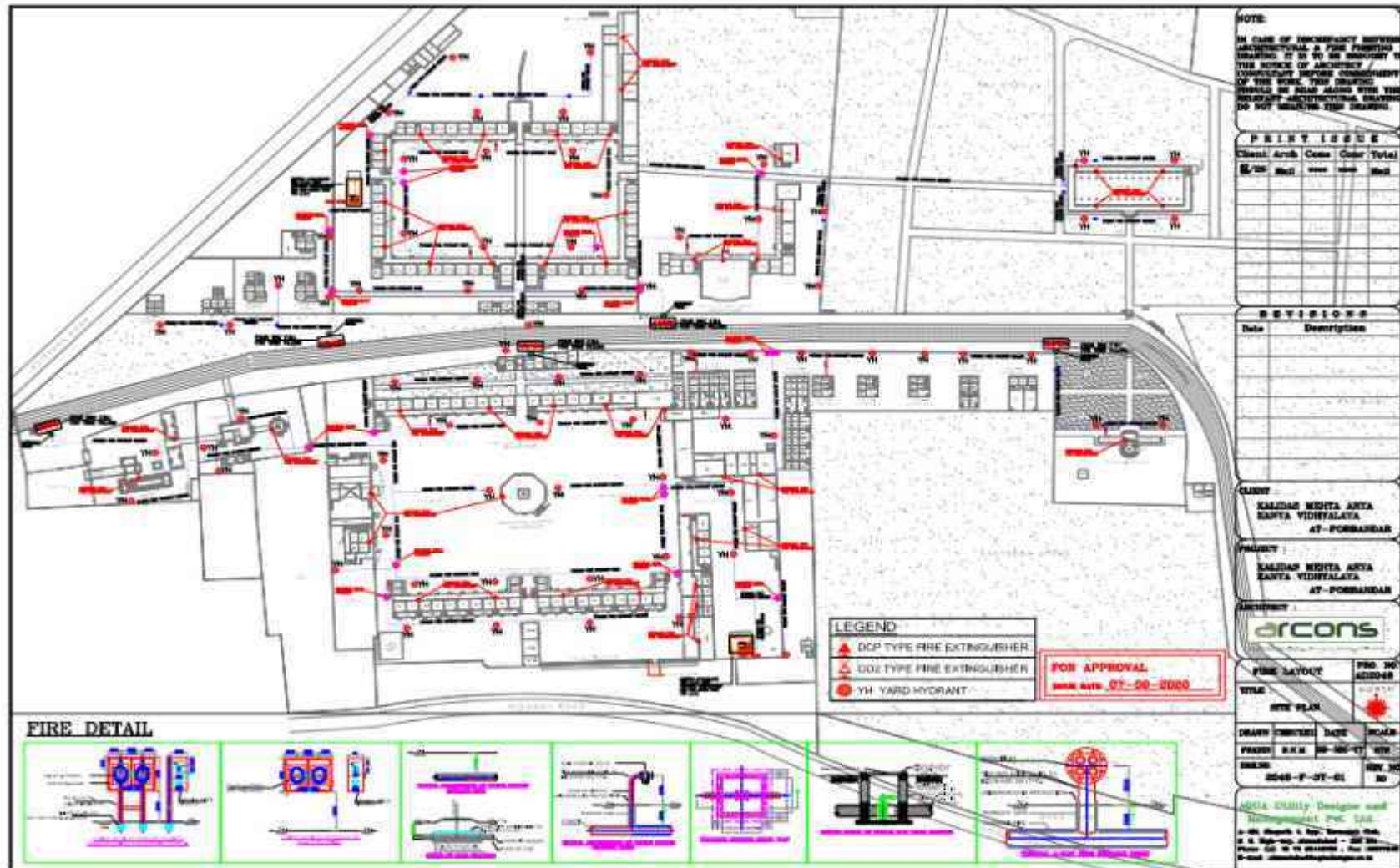
- As per IS 13039 the minimum storage capacity of tank should be 1, 50,000 litres.
- We have proposed one main hydrant Pump, One Jockey Pump and one Standby Diesel Pump for each part as suggested above.
- As per IS 13039, Yard hydrants up to 55 nos capacity of main Hydrant Pump shall be 137 m<sup>3</sup>/Hr with 7 kg/cm<sup>2</sup> of delivery pressure at pump discharge at rated capacity.
- Capacities of Diesel pump have kept same as of Main Hydrant Pump and one jockey pump of 10.8 m<sup>3</sup>/hr has been provided.
- Proposed Pump Room size shall be 20' x 15' with 2.0 mtr shutter for both campuses.
- Main header from pump is connected to ring main and further sub header has taken from ring main to kept hydrant post.
- We have provided valve chambers at various part of pipe line in case of mentainance, whole fire system would not shutdown.
- Placement of Yard Hydrant has been kept 6 mtr away from the building and covering all building from fire from outside.

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**E) Fire Fighting Estimate**

Sr. No.	Description of Works	Total Amount
A	Fire Pumps, Equipments, Piping, Valves & Accessories	24,21,580.00
B	External Fire Hydrant and Fire Extinguisher	94,63,160.00
	<b>Total Cost of Fire Fighting Tender</b>	<b>1,18,84,740.00</b>
	Add GST @ 18 %	21,39,253.20
	<b>Total Cost of Fire Fighting Tender with GST</b>	<b>1,40,23,993.20</b>

**F) Proposed Drawing of Fire Fighting Scheme :**





### G) Conclusion

- As per NBC Part IV Fire and Safety, we didn't require fire fighting system but considering safety from Fire we are proposing Fire fighting system to fight from externally.

### H) Project Photos :

- Following photos are of AKG – 1 Building

Entrance Gate of Hostel Building



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Main Hostel Building



Back Side of Hostel Building



Planetorium



Prathana Hall



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**Following photos are of AKG – 2 Building**

Main Entrance Gate of Santokba English Medium School



Santokba English Medium School



Front side of Santokba English Medium School



Santokba Higher Secondary School





Santokba English Medium School front side



Bharat Mandir





# Aqua Utility Designs & Management Pvt. Ltd.

A-401, Shapath-IV, Opp. Karnavati Club, S.G. Highway, Ahmedabad-380 015  
 Phone: +91 79 26937262, 9375042785; E-mail: ahmedabad@aquadesigns.co.in  
 Website: www.aquadesigns.co.in CIN: U74210GJ2008PTC053491

Project Name :- Kalidas Mehta Arya Kanya Vidhyalaya at Porbandar

Document :- Roof Top Solar Panel Load & Costing

Date : 29/09/2020

Document - 7: Roof Top Solar Panel Load & Costing											Date: 12/07/2020
Sr.No.	Building	Average annual Unit Consumption	Average annual Electricity Bill	Existing Sanctioned Load in KW	Possible. Nos. of Roof top Panel	Possible Solar Generation Load in KW	Permissible KW generation	Required Nos. of Roof top Panel	Cost of Solar Generation in INR	Cost after Central Govt Subsidy	Cost after Gujarat Govt Subsidy in INR
1	AKG-1 (School & Hostel)	48000	276000	27	498	134.46	13.5	42	5,94,000	4,15,800	3,95,800
2	SARASWATI MANDIR	2400	16800	6.5	65	17.55	3.25	2	1,56,975	1,09,883	89,883
3	BHOJNALAY	18000	132000	8	211	56.97	4	2	1,93,200	1,35,240	1,15,240
4	AKG-2 (English, Gujarati & Mahila Collage)	26400	216000	25	775	209.25	12.5	42	5,50,000	3,85,000	3,65,000
5	MEMORIAL HALL	4200	38400	30	775	209.25	15	45	6,60,000	4,62,000	4,42,000
6	BHARAT MANDIR +RAJWADI	3600	27600	19	775	209.25	9.5	30	458850	321195	3,01,195
Total Existing sanction load in KW				115.5							
Total Permissible Solar generation KW				57.75							
Total Cost of Solar Generation in INR				17,09,118							
Total average Annual Electricity bill in INR				7,06,800							
Total payback period in years = 2.5 Years											

## NOTES :-

Solar Generation permissible capacity is 50% of Sanction load as per GEDA.

As per Central Govt. PV solar policy solar Power System subsidy is 30% of total cost.

As per GEDA Rs 20,000 subsidy is given by Gujarat Government.

Solar System Capacity Range & Price in Rs as per GEDA :

1 to 6 KW : 48,300 /-

Above 6 to 10 KW : 48,000/-

Above 10 to 50 KW : 44,000/-

Above 50 KW : 41,000/-





Smarter Dharma Sustainable Solutions

## **CONTRACTUAL AGREEMENT**

This deed of Agreement is entered into on this 13th day of January, 2020 by and between M/S Smarter Dharma Sustainable Solutions registered under the laws of India having its office at #141, 6th Cross, 9th Main, Vidyananyapura, Bangalore - 560097. M/S Smarter Dharma shall be the primary and hereinafter called The COMPANY (which term shall mean and include his legal heirs, successors, assignees etc) or the FIRST PARTY.

AND

Raj Ratna Sheth shri Nanjibhai Kalidas Mehta Arya Kanya Vidyalaya Trust Porbandar registered under the laws of India, represented by its Trustee Ms. Juhi Mehta, having its registered office at Porbandar, Gujarat 360575, hereinafter called The CUSTOMER (which term shall mean and include all its partners and its legal heirs, successors, assignees etc) or the SECOND PARTY

Whereas The COMPANY of this deed is an organization doing business in the field of providing Sustainable Solutions through strategy consulting, implementations and enhancing efficiencies in the domains such as Energy Utilization, Water Management, Waste Management, Climate Change Outreach and Technology, etc

AND whereas The CUSTOMER of this deed is a Non-Profit Educational Institute,

AND whereas the CUSTOMER of this deed has expressed the desire to avail the services of the COMPANY to take up the work detailed in the ANNEXURE-A towards putting together A\_Solutions\_Proposal for adopting Sustainability to The CUSTOMER,

AND whereas the CUSTOMER agreed to pay the COMPANY for a pre-agreed sum of money and the applicable prevailing taxes for the services rendered,

AND whereas both parties with this deed have mutually agreed to proceed with the service agreement under certain written terms & conditions as explained below.

### **NOW, THIS DEED OF AGREEMENT WITNESSETH AS UNDER**

1. **SERVICES PROVIDED:** That the COMPANY shall provide The CUSTOMER with designated services detailed in Annexure-A ("Services").

The CUSTOMER agrees to avail of the Services from The COMPANY and The COMPANY agrees to provide the Services to The Customer in accordance with the terms and conditions of this Agreement and such additional / supplementary services as the parties may from time to time agree.

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Phone: +91 99724 91006  
E-Mail: [info@smarterdharma.com](mailto:info@smarterdharma.com)  
Web: [www.smarterdharma.com](http://www.smarterdharma.com)



Smarter Dharma Sustainable Solutions

2. **VALIDITY PERIOD OF AGREEMENT:** Until the completion of Phase-II Report Submission OR 3 months from the signing of this contract, whichever occurs first.

✓ 3. **CHARGES AND PAYMENTS:** The CUSTOMER shall pay The COMPANY under the following structure –

- A sum of Rs.2,00,000/- is to be paid to The COMPANY for the Services rendered.
- GST is applicable to this amount at 18%.
- The payment shall be made according to the schedule mentioned below (milestones mentioned in the Appendix A below):
  - Advance payment upon contract signing of Rs. 50,000/-
  - 2nd payment upon completion of Milestone - I of Rs.100,000/-
  - Final payment post completion of Milestone - II OR end of this Contract's Term of Rs.50,000/-
- All payments to partners and other external agencies to be made by The CUSTOMER directly to the said Partner or any other External Agency.
- All invoices shall be raised by Smarter Dharma.

4. **LOGISTICS:**

- The COMPANY shall need a maximum of 5 trips (with an aim to keep them lower) for the team to visit the location for effectively discharging the agreed Services.
- All expenses incurred by The COMPANY for, beyond Bangalore, logistics & any other expenses shall be handled and borne by The CUSTOMER. Bangalore travel shall be borne by The COMPANY. Miscellaneous costs related to material, etc to be borne by The CUSTOMER.

5. **UNCONTROLLABLE CIRCUMSTANCES:** That except for the obligation to make payments hereunder, neither party shall be in default for its failure to perform or delay in performance caused by events beyond its reasonable control, including, but not limited to, strikes, riots, imposition of laws or governmental orders, fires, acts of God, and inability to obtain equipment, permit changes and regulations, restrictions (including land use) therein, and the affected party shall be excused from performance during the occurrence of such events.

6. **LIMITATION OF LIABILITY:** In no event, either Party shall be liable to the other for any special, indirect, incidental, punitive, contingent or consequential loss or damage suffered by the other Party, including but not limited to a loss of use, data, business, anticipated savings, profit, reputation, goodwill or revenue, arising out of or in connection with this Agreement, whether as a result of a breach of this Agreement or otherwise and whether such liability arises from any claim based upon contract, warranty, tort, product liability or otherwise, and whether or not such Party has been advised of the possibility of such loss or damage except where such loss or damage has been the result of gross negligence, fraudulent and/or wilful acts of either Party.

Notwithstanding any other provision under this Agreement The CUSTOMER's total aggregate liability to The COMPANY from any cause relating to or arising out of this Agreement regardless

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Smarter Dharma Sustainable Solutions

of the form of action whether in contract, tort or otherwise shall not exceed the amount paid by The CUSTOMER.

Except for the clause on Indemnification and Proprietary Rights of this Agreement, The COMPANY's total aggregate liability to The CUSTOMER from any cause relating to or arising out of this Agreement shall not exceed 50% of amount paid or payable by The CUSTOMER under this Agreement.

IN WITNESS WHEREOF THE PARTY'S TO THIS DEED HAVE SET IN THEIR HANDS ON THE DATE MENTIONED ABOVE

Agreed & Accepted

For Raj Ratna Sheth Shri Nanjibhai Kalidas Mehta  
Arya Kanya Vidyalaya Trust Porbandar

Sriram Kuchimanchi  
CEO  
Signed for The COMPANY

Ms Juhi Mehta  
Hon. Trustee  
Signed for The CUSTOMER

PEOPLE PLANET PROSPERITY

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#### Appendix A

The COMPANY shall perform Services with the below mentioned plan of action.

Locations: Porbandar, Gujarat

#### **Carbon Management: Phase - I**

a. **MILESTONE - I : Infrastructure Solutions:** The COMPANY shall design solutions for:

- Water Management
  - Treatment solutions for reuse of water,
  - Rainwater reuse solutions for reduced external dependency,
  - Recommend efficient fixtures for consumption efficiency
- Water Tanks clean-up as needed
- Energy Management
  - Renewable Energy solutions for reducing electricity consumption,
  - Alternative on-site energy solutions (like Biogas plants),
  - Recommend efficient fixtures for consumption efficiency
- Solid Waste Management
  - Establish Wet Waste Solution to eliminate landfill need,
  - Dry Waste recycle process and handover plan,
  - Medical & sanitary waste incinerators and handling,
  - Hazardous Waste management plan
- One-time full clean of the premises to make it zero-waste

b. **MILESTONE - II : Partner Engagement:** The COMPANY shall engage with the right partners for design and implementation of the solutions around Handling Solid Waste, Water Management as well as Energy Management:

- Finalize design details for every solution,
- Finalize Partners who would implement the solution,
- Finalize costing and contractual engagement with each Partner,
- Identify timelines on implementation,
- Internal monitoring mechanism finalization,

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