GRIHA for **Existing Schools** Version 3



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Introduction

Background

India is considered to be the fastest growing economy in the world. While holding the position of the third-largest contributor to greenhouse gas emissions globally, responsible for 7% of the total, the country has been diligent in advancing towards its emissions reduction goals. India is shifting toward greater renewable energy generation while striving to improve energy access, affordability, and security. Despite these efforts, the existing policies indicate a projected rise of over 40% in total greenhouse gas emissions by 2030.

Buildings operations and construction emissions account for more than one-third of global energy-related emissions. Buildings, to some extent impact the ideology and thinking of its occupants. This is even more valid for schools wherein students spend almost majority their waking hours during their formative years. The values and lessons learnt at school become the foundation of the outlook students adopt for the rest of their lives. Therefore, it is extremely important to ensure that students absorb maximum positive values from their time spent in school. Studies suggest that the children who study in 'sustainable' schools possess higher pro-environmental attitude and more frequently behave environment friendly compared to those in the schools with conventional design. Learning in a conducive environment helps improve the performance of students as well.

The GRIHA for Existing Schools has been developed as a framework to evaluate and rate the environmental performance of existing school campuses. The rating intends to develop a proactive attitude amongst the students and teachers to reduce their environmental footprint and adopt a greener lifestyle. The evaluation would be done using calculators with pre-fed data and the students and teachers will be working collaboratively to meet the requirements of the rating.

The rating intends to imbibe the concept of resource conservation by means of learning through play activities thereby converging towards the national targets.

ECO Team

Each school, registered under the rating, would need to form a team, to be called as 'ECO Team'. The ECO Team shall be responsible for all tasks related to the GRIHA Existing School Rating.

The team shall comprise of students, various subject teachers (physics, biology, environmental sciences, etc.), facility management officials, administration officials, and any other person deemed suitable for complying with the requirements of the rating criteria. Each section would be the responsibility of one teacher and a student along with a team of students working with them. The entire ECO Team would be headed by a student and teacher representative who should also be a part of the orientation workshop which will be conducted for the school post project registration.

Rating Process

- Online registration The school authorities can initiate the registration process by filling the expression of interest (EoI) form available on the GRIHA website. The registration is complete after the feasibility checklist is successfully completed by the school authorities. On successful payment of the requisite fees, the project gets registered for GRIHA for Existing Schools rating.
- Orientation workshop The registration is followed by an orientation workshop conducted by the GRIHA Council which intends to provide detailed information of the rating, all criteria, and to address specific queries of the school.
- Collection of building data and filling survey forms and calculators ECO Team will collect the rating specific data and use the survey form and calculators to analyze their school's environmental performance.
- Interim site visit (optional) The school authorities can choose for an interim site visit to be conducted by GRIHA Council officials by paying additional charges. The interim visit helps the team to collate the data required and clarify any specific doubts at the site.
- First submission of documents The project team will then compile and submit documents according to all the criteria of this rating.
- Final site visit (mandatory) Once the data is collected, forms and calculators are filled and submitted. The GRIHA Council officials will conduct a site visit to verify the submitted documentation with the on-site implementation and to verify compliance with various criteria in the rating.
- Final submission of documents After the GRIHA Council officials visit the school, the ECO team will submit the second and the final set of documents for review based on the comments made during the site visit.
- Final review by GRIHA Council The GRIHA Council shall evaluate the submitted documentation.
- Award of rating Final rating will be awarded based on the documentation submitted and observations made during site visit.

Rating Framework

The GRIHA for Existing Schools rating is a performance-oriented rating where points are awarded for meeting the intent of the rating criteria.

- The rating has been categorized into six primary sections which consists of 15 subsections termed as 'criterion'. An additional section comprising one criterion acts as bonus in the rating.
- Each criterion consists of certain guidelines, termed as 'Appraisal'. These appraisals have points assigned to them and these points will help the schools to achieve their desired GRIHA Existing school rating.
- Compliance documents, as specified in the relevant criterion, must be submitted in the prescribed format to attain the points assigned for appraisals.

The GRIHA for Existing Schools rating is a 50-point system consisting of the following six + one sections—

Section	Criterion	Maximum Points
Energy Management	Criterion 1 - Per Capita CO ₂ Emissions – Building and Transport	2
	Criterion 2 - Operation and Maintenance	5
	Criterion 3 - Efficient Outdoor Lighting	2
	Criterion 4 – On site Renewable Energy Usage	3
	Criterion 5 – Visual Comfort	3
Occupant Comfort	Criterion 6 – Thermal Comfort	3
	Criterion 7 – Acoustic Comfort	2
Air Quality	Criterion 8 – Indoor Air Quality	3
	Criterion 9 – Number of Trees	3
Water Management	Criterion 10 – Water Resource Management	3
	Criterion 11– Optimizing Annual Water Consumption	5
	Criterion 12 – Waste Segregation	4
waste Management	Criterion 13 – Treat Organic and Inorganic Waste	3
Social	Criterion 14 – Health and Hygiene	3
	Criterion 15 – Social Initiatives	6
Total 50		
Bonus	Criterion 16 – Bonus	2

Table 1: Section, criterias and Points in GRIHA Rating

Certification (one star to five stars) is awarded based on the number of points achieved. The minimum points required for certification is 25.

Points Achieved	Star Rating
25-29	*
30-34	**
35-39	***
40-44	****
45-50	****

Table 2: Points required to achieve star ratings

Eligibility

All day schools (excluding staff residential facilities) which have been operational for at least 1 year are eligible for certification under GRIHA for Existing Day Schools rating.

Per Capita CO₂ Emissions – Building and Transport

Intent

Enable students to assess the amount of energy consumed in buildings and by vehicular transport, thereby enabling them to calculate the school's total CO_2 emissions from both the sectors.

Appraisals

1.1.1 Calculate the building, transport and per capita carbon footprint according to CO₂ emission calculator.

- 2 points

Compliance Documents

1.2.1. Submit duly signed document showing the population of the school – students (fixed) and the teaching and non-teaching staff.

1.2.2. Submit duly filled GRIHA energy calculator to demonstrate compliance.

1.2.3. Submit energy bills corresponding to the GRIHA energy calculator submitted in 1.2.3.

1.2.4. Submit duly filled transportation survey forms shared in the GRIHA energy calculator.

Operation & Maintenance

Intent

To ensure that good practices are followed in operation and maintenance (O&M) of the building and use of energy efficient appliances and ODP free equipment is promoted.

It also focuses on the need of basic metering of water and energy consumed by the school.

Appraisals

2.1.1 Ensure that maintenance protocols exist, and they are followed for electrical, HVAC, plumbing, renewable energy (RE), rainwater harvesting systems, for civil repair works (as applicable), and so on.

and

2.1.2 Ensure that the refrigerant used in refrigerating equipment and the HVAC systems must be chlorofluorocarbon (CFC) free OR ensure that there is a phase out plan for CFC using equipment/systems. -1 point

2.1.3 Ensure that the fire fighting systems must be halon free. **-1 point**

2.1.4 Maintain and follow a policy of purchasing appliances with at least 3star BEE rating* -1 point

* Air conditioners, television, fans, geyser and washing machine.

2.1.5 Demonstrate compliance with basic metering requirements as mentioned in Table -2 points

Table 3: Source Metering Requirements

Energy Metering requirement - 1 poi	Water Metering requirement - 1 point
 Ensure regular monitoring of school's consumption by installing digital meters at the following point sources: Utility Grid Onsite renewable energy system Diesel generators, gas generator and so 	Ensure regular monitoring of school's water consumption by installing digital meters at the following point sources: Municipal supply Bore well Tanker water STP outlet Additionally, the quality of water used for various purposes shall confirm to relevant national standard (Bureau of Indian Standards {BIS} or Central Pollution Control Board {CPCB}). Water quality should be tested at least.

Compliance Documents

2.2.1 Submit proof of provision for a core facility/service group responsible for operation & maintenance of the building's systems. This should be supported with the contract document (mutually signed between the respective parties) or supportive documents, verified and signed by the responsible parties.

2.2.2 Submit maintenance and safety protocols followed by the facility management team covering the following systems(as applicable):

- Electrical system: transformer, DG, HT and LT panels, and motors.
- HVAC system: AHU, cooling tower, chillers and pumps, VRF, and ventilation fans
- Plumbing systems
- Renewable energy systems
- Sewage treatment plant and/or waste treatment plants
- Storm water drainage and rainwater harvesting systems
- All energy and water meters installed in the school
- Fire alarm and/or smoke detectors.

2.2.3 Submit records and schedules of maintenance activity undertaken for all these systems in the last three months.

2.2.4 Submit photographs/specification sheets for the HVAC and other cooling equipment in the building showing that are CFC free.

2.2.5 Submit duly filled survey form provided by GRIHA for the equipment installed in the school.

2.2.6 Submit photographs/specification sheets of the firefighting systems showing the details that they are halon free.

2.2.7 Submit duly filled survey form provided by GRIHA for fire fighting systems installed in the school

2.2.8 Submit a phase out plan for:

- equipment using CFCs and HCFs
- fire fighting systems using halon,

if such equipment are currently in use in the school premises.

2.2.9 Submit the following:

- verified purchasing policy documents/contracts incorporating the provisions for procurement of BEE 3 star labelled appliances and
- photographs of existing appliances.

2.2.10 Submit date stamped photographs of various types of meters installed in the school.

2.2.11 Submit duly filled survey form provided by GRIHA for meters installed in school.

Efficient Outdoor Lighting

Intent

To ensure reduction in energy consumption through use of efficient outdoor lighting fixtures in the campus.

Appraisals

3.1.1 Ensure that all outdoor lighting fixtures are LED based.

-1 Point

3.1.2 Demonstrate that all outdoor lights are controlled through automatic controls.

-1 Point

Compliance Documents

3.2.1 Submit duly filled survey form provided by GRIHA for all outdoor lighting fixtures installed in the school campus.

3.2.2. Submit date stamped photographs of all outdoor light types to ensure that they are LED based.

Or

Submit phase out policy confirming all future procurements for outdoor lighting shall be LED based.

3.2.3 Submit date stamped site photographs demonstrating installation of automatic controls for outdoor lighting.

Criterion 4

Onsite Renewable Energy Usage

Intent

To promote use of renewable energy technologies and enable green energy generation on site.

Appraisals

4.1.1 Ensure that the rated capacity of renewable energy system (Solar PV/Solar hot water system/Biomass/ Geothermal/Wind turbine) installed on site confirms to installation @ 1kWp per 500 m² of the total built up area thresholds.

- 3 points

Percentage of total calculated installation @ 1kWp per 500 m2 (on site only)	Points
10-25%	1 point
26-50%	2 points
Above 50%	3 points

Table 4: Percentage of renewable Energy to be Installed for Compliance

Compliance Documents

4.2.1 Submit POs of the R.E. system installed.

4.2.2 Submit technical specification sheet highlighting the performance of the applicable technology (as tested under standard test conditions).

4.2.3 Submit duly filled renewable energy calculator provided by GRIHA.

4.2.4 If the renewable energy system is proposed to be installed, then submit the feasibility report. Submit floor and terrace plans.

4.2.5 Submit photographs clearly showing the installation of renewable energy systems on site.

Criterion 5

Visual Comfort

Intent

To ensure that the classrooms are well lit with adequate lighting levels thus ascertaining a visually comfortable environment for the occupants. Measures should be taken to maximize daylight harnessing and minimize eye strains and headaches.

Appraisals

Daylight

5.1.1 Demonstrate that illuminance levels (daylight) are more than 300 lux for more than 50% of the readings of living spaces*.

- 1point

Artificial Light

5.1.2 Demonstrate that minimum the recommended lux levels are as per NBC 2016 for

50% of the readings of living spaces *	- 1 point
More than 75% of the readings of living spaces *	- 1 point

- *School (with and without artificial light) 11 am to 1 pm- The lux reading should be taken for minimum of 5 Classrooms, 1 staff room,1 principal room, 1 labs, 1 auditorium/ activity room (if applicable), library
- *Hostel {11 am to 1 pm(without artificial light) and 7 pm to 9 pm(with artificial light)}- 3 girls hostel room, 3 boys hostel room, mess/dining

NOTE:

- 1. The mobile application that maybe used for the measurements of lux levels is "Lux Light Meter Pro" which is a free application.
- 2. The readings to be taken 1 to 2 m away from the window.

Compliance Documents

5.2.1 Submit photographs of room with open windows and switched off lights.

5.2.2 Submit recordings of daylight and artificial light lux levels for the spaces mentioned in the format provided by GRIHA.

5.2.3 Submit photographs of students and teachers/non-teaching staff taking readings using lux meters.

Thermal Comfort

Intent

To understand the key parameters of thermal comfort for a thermally comfortable indoor environment, thus enabling students to perform better.

Appraisals

6.1.1 Ensure that over 50% of the readings of living spaces* meet the thermal comfort (temperature in degree Celsius) conditions as per Indian Adaptive Comfort Model.

-1 point

6.1.2 Choose one of the following strategies: Option 1: What is the no. of fans in all habitable spaces*.

OR

Option 2: Calculate Openable Window-to-Floor Area Ratio (WFR) of all habitable spaces^{*}. For more details refer to ECO-Niwas Samhita manual.

OR

Option 3: Measure relative humidity levels in the living spaces*

-1 point

- *School (11 am to 1 pm)- The reading should be taken for minimum of 5 Classrooms, 1 staff room,1 principal room, 1 labs, 1 auditorium/ activity room (if applicable), library
- *Hostel (11 am to 1 pm and 7 pm to 9 pm) 3 girls hostel room, 3 boys hostel room, mess/dining

NOTE: The mobile application that maybe used for the measurements of degree Celsius value is "Galaxy Sensor App" which is a free application.

6.1.3 Ensure that at least 3 passive/ active design strategies are adopted for enhancing thermal comfort.

– 1 point

Compliance Documents

6.2.1 Submit duly filled thermal comfort audit form provided by GRIHA including hourly temperature of all representative spaces for at least 1 day to demonstrate compliance with Appraisal 6.1.1.

6.2.2 Submit duly filled form to demonstrate compliance with 6.1.2 based on the option adopted.

6.2.3 Submit duly filled forms provided by GRIHA to demonstrate compliance with 6.1.3. with passive and active strategies adopted in the school.

6.2.4 Submit space-wise temperature and RH schedule maintained for all seasons (summer, winter, and monsoon, etc.) for centrally air-conditioned spaces.

6.2.5 Submit report and photographs to show fan placement in mechanicallyventilated spaces to demonstrate compliance with Appraisal 6.1.2.

Criterion 7

Acoustic Comfort

Intent

To enhance the acoustic comfort in classrooms to enable effective communication and improved concentration level of students in schools.

Appraisals

7.1.1 Demonstrate that the outdoor decibel levels[#] are in compliance with the Central Pollution Control Board (CPCB).

-1 point

*6 readings (at the same location) day and night each in the campus, preferably near the hostel and school blocks.

7.1.2 Demonstrate that the indoor decibel levels for all habitable spaces* are in compliance with NBC 2016.

-1 point

- # 3 readings at three different spots near hostel at day and night; additional 3 readings at three different spots near school building at day and night
- * School: (3:30 pm to 5:00pm)- The reading should be taken for minimum of 5 Classrooms, 1 staff room,1 principal room, 1 labs, 1 auditorium/ activity room (if applicable), reception.
- * Hostel (11 am to 1 pm)- 3 girls hostel room, 3 boys hostel room, mess/dining

NOTE: The mobile application that maybe used for the measurements of decibel levels is "Sound Meter and Noise Meter" which is a free application.

Compliance Documents

7.2.1 Submit duly filled outdoor and indoor noise audit form provided by GRIHA to demonstrate compliance.

Indoor Air Quality

Intent

To improve indoor air quality (IAQ) of school campus buildings and ensure a healthy environment.

Appraisals

8.1.1 Demonstrate that the school (school and hostel building) adopts minimum 3 strategies to enhance the indoor air quality:

Strategy 1: Planting indoor plants (5 plants per 10 sq.m. of carpet area) Strategy 2: Provision of exhaust fans in in spaces mentioned in the form provided by GRIHA

Strategy 3: Provision of mats and carpets at all school building and hostel entries Strategy 4: Use of green clean products

Strategy 5: Provision of air purifiers in spaces mentioned in the form provided by GRIHA

-3 points

Compliance Documents

8.2.1 Submit indoor air quality survey form provided by GRIHA.

8.2.2 Submit photographs of all the measures incorporated in the school campus.

Criterion 9

Number of Trees

Intent

To preserve and protect the existing trees and plant more native trees preferably within the campus.

Appraisals

9.1.1 Demonstrate that the school campus meets the following requirement for tree plantation through any of the alternatives

-3 points

Table 5.1: Alternatives for Trees Plantation

Alternative 1 – Onsite (within the school)		
No of existing + new trees (native and adaptive species)	No of Points	
1 per 160 sq.m of school site area	1	
1 per 120 sq.m of school site area	2	
1 per 80 sq.m of school site area	3	

Table 5.2: Alternatives for Trees Plantation

Alternative 2 – Offsite (within the same city/town/village)		
No of trees (native and adaptive species)	No of Points	
1 per 60 sq.m of school site area	3	

Compliance Documents

9.2.1 Submit drawing (layout of the school campus) highlighting the number of new trees/ existing trees located within the school campus.

9.2.2 Submit the tree survey form provided by GRIHA highlighting the total number of trees on site along with their species.

9.2.3 Submit date-stamped photographs indicating the trees planted/existed on-site and trees planted off-site (as applicable).

9.2.4 Submit purchase order of saplings of trees planted highlighting their quantities and species (applicable if new plantation is carried out)

9.2.5 Submit duly filled calculator provided by GRIHA demonstrating the increase in percentage of the trees planted onsite/offsite.

Water Resource Management

Intent

To promote recharge of groundwater aquifers and treatment of wastewater generated on site.

Non-applicability: If the CGWB norms suggest that the groundwater table is high and ground water recharging should not be done, then the project is exempt from 10.1.1

Appraisals

10.1.1 Recharge of rainwater into aquifer (through appropriate filtration measures)

– 2 points

10.1.2 The STP installed on site meets the CPCB/municipal disposal norms

– 1 point

Compliance Documents

10.2.1 Submit drawings of rainwater harvesting system for ground water recharge and its filtration system to show that adequate preventive measures are being taken to avoid damage to the aquifer by the recharged rainwater.

10.2.2 Submit narrative for the type of wastewater treatment plant installed on site.

10.2.3 Upload photographs of STP, rainwater harvesting pits, storage tanks (if available), and filtration system

10.2.4 Submit treated wastewater test report of tests conducted within last 6 months from the date of submission of documents.

10.2.5 Submit duly filled survey provided by GRIHA.

Optimizing annual water consumption

Intent

To reduce overall water demand of the building through use of low-flow fixtures and efficient irrigation systems.

Appraisals

11.1.1 Ensure that low flow fixtures are installed in the school building and hostels:

•	Low flow faucets (kitchen and lavatory)	- 1 Point
•	Dual flushing system	- 1 Point
•	Sensor based/waterless urinals	- 1 Point

11.1.2 Ensure that the school has installed irrigation systems (such as drip irrigation, sprinkler system etc.) for landscaping

- 1 Point

11.1.3 Ensure that RO wastewater is reused onsite.

OR (incase water treatment system/RO is not installed)

Ensure that potable water meets BIS standards of drinking -1 Point

Compliance Documents

11.2.1 Upload photographs of low flow faucets (kitchen and lavatory), dual flushing system, sensor based/waterless urinals and irrigation systems installed in the project.

11.2.2 Submit narrative showing reuse of RO wastewater or submit drinking water test report of test conducted within last 6 months from the date of submission of documents.

11.2.3 Submit duly filled survey forms provided by GRIHA.

Waste segregation

Intent

To provide infrastructure for segregation of solid waste to enable waste to resource.

This will make it an inherent habit for children to sensibly discard garbage in designated dustbins to avoid burden on landfills.

Appraisals

12.1.1 Ensure that multi-coloured bins (primary storage) are provided in all occupied spaces (such as classrooms, staffroom, library, playground, etc.) and the common areas of each floor.

12.1.2 Ensure that designated, centralized, and hygienic (secondary) storage spaces are provided on site to store waste before sending it out for treatment/recycling.

- Total 3 Points (Together - 12.1.1

& 12.1.2)

12.1.3 Ensure that sanitary napkin dispensers along with the sanitary bins are provided in female toilets (students/teachers) to dispose female hygiene waste.

- 1 Point

Compliance Documents

12.2.1 Submit narrative and declaration stating the use of multi-coloured bins in all occupied spaces and common areas of each floor.

12.2.2 Submit purchase order of the multi-coloured bins, sanitary bins and sanitary napkin dispensers.

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12.2.3 Submit date-stamped photographs indicating the location of primary and secondary storage facilities.

12.2.4 Submit duly filled survey form provided by GRIHA.

Treat organic and inorganic waste

Intent

To encourage the treatment of inorganic (dry/recyclable) and organic waste through various strategies thus minimizing disposal of waste to landfills and incinerators.

Appraisals

13.1.1 Ensure that appropriate strategies are in place for recycling paper, plastic, e-waste, etc., through tie-ups with informal/formal recyclers.

- 1 Point

13.1.2 Demonstrate that 100% of the organic waste generated in the school is converted to biogas/manure.

- 2 Points

Compliance Documents

13.2.1 Submit narrative and date-stamped photographs indicating the recycling measures taken by the school to recycle inorganic waste, such as paper, metal, plastic, e-waste generated on site, etc.

13.2.2 Submit contractual tie-ups with the waste recyclers for safe recycling of recyclable wastes like metal/ paper/plastic/ glass, e-waste, etc.

13.2.3 Submit narrative and date-stamped photographs indicating the measures taken by the schools to treat organic waste.

13.2.4 Submit duly filled waste calculator provided by GRIHA

13.2.5 Submit purchase order and date-stamped photographs of organic waste composter (if applicable).

Health and Hygiene

Intent

To ensure that appropriate sanitation and hygienic conditions are maintained in the school for disease prevention and ensuring a healthy environment. It will also sensitize students about importance of cleanliness and hygiene at a young age.

Appraisals

14.1.1 Ensure that minimum 3 good sanitation measures are implemented within the school premises from the list provided

– 3 Points

- The school management should provide barber shop.
- The school management should provide medical room/conduct health check-ups.
- The school management should ensure applicable vaccination for students.
- The school management should provide soap dispensers in all toilets and wet areas.
- Posters should be displayed in schools to create awareness about the importance of sanitation and hygiene.
- Audio-visual films (short films, documentaries, etc.) should be played in classrooms/auditorium on a monthly basis, to sensitize children about the importance of sanitation and hygiene.
- The school should conduct workshops and discussions at the community level to sensitize students on the importance of maintaining sanitation and personal hygiene. These workshops need to be conducted quarterly (every 3 months).
- Air fresheners should be regularly sprayed in each washroom.

Compliance Documents

14.2.1 Submit date stamped photographs and narrative elaborating the measures taken by the school to maintain hygienic conditions in the school premises.

Social Initiatives

Intent

To ensure that school takes appropriate social initiatives to enable 'inclusive development' of the country and sensitize students and staff about the importance of becoming responsible citizens.

Appraisals

15.1.1 Ensure that the school should conduct regular fire drills and prepare fire prevention plans.

- 1 Point

15.1.2 Demonstrate that the school adopts any 5 measures from the list of social measures provided in the methodology.

– 5 points

- Information regarding nutritional content of food provided
- Visual representation of energy and water consumption of the school
- Green tour to green buildings/zoo/biodiversity parks/heritage buildings/monuments/museums
- Universal accessibility measures
- Resting spaces for staff
- Organic farming within the campus
- Heritage enrichment
- Local art and craft classes
- Any other social activity that is conducted by the school.

Compliance Documents

15.2.1 Submit menu for healthy food that will be supplied in the canteen along with declaration from the food vendor.

- Displaying posters around the school to sensitize students about the harmful effects of unhealthy/junk food.
- Provision of healthy food options in the canteen/cafeteria of the school.

and/or

15.2.1 Submit date stamped photographs of the location of water, energy meters and LCD screens displaying energy and water consumption within the school.

and/or

- 15.2.1 Submit photographs for the provision provided for universal accessibility in school (toilets/lifts/ramps with railing etc.) and/or
- 15.2.1 Submit photographs of the location of the resting spaces for service staff.

and/or

15.2.1 Organic farming within the campus. and/or

15.2.1 Green tour to green buildings/zoo/biodiversity parks/heritage buildings/monuments/ museums

Max Points: 2

Criterion 16

Bonus

Intent

To promote adoption and implementation of innovative strategies to enhance sustainability quotient of the school.

Appraisals

16.1.1 Adopt strategies, independent of 15 criteria, to make the school more sustainable. (1 point per strategy)

– 2 Points

Compliance Documents

16.2.1 Submit documents, narrative, declaration and date-stamped photographs, highlighting the measures implemented.