



अपंग महिला मंडळ, अमरावती (सातारा) संचलित
श्री कासाईदेवी केंद्रीय एस.सी. प्रा./माध्य.
निवासी आश्रमशाळा, अंधारी (कास) फळणी
ता. जावली, जि. सातारा



Project Report

Installation

of

Solar Powered Street Lights

At

Shri Kasaidevi Central SC Primary &
Secondary Residential School, Andhari (Kas)
Phalani, Taluka Javali, Dist. Satara.
(Central Govt. Recognized, No. 11020(13)-19/2012 SCD)



अपंग महिला मंडळ, अमरावती (शाहपुरी, सातारा) संचलित
श्री कासाईदेवी केंद्रीय एस.सी. प्रा./माध्य. निवासी आश्रमशाळा,
अंधारी (कास) फळणी ता. जावली, जि. सातारा

CSR उपक्रम

१० सोलर स्ट्रीट लाईट
(पोलसह)

उपक्रमाचा उद्देश

शाळेच्या परिसरात १० सोलर स्ट्रीट लाईट बसविणे,
जेणेकरून सुरक्षित, स्वच्छ व ऊर्जाबचत करणारे
पर्यावरण तयार करणे.

CSR अंतर्गत आम्ही करीत असलेले उपक्रम



सौर ऊर्जा वापर



पर्यावरण संवर्धन



सुरक्षित परिसर



सामाजिक जबाबदारी

शाळेला होणारे फायदे



रात्रीच्या वेळी शाळेचा परिसर
सुरक्षित होईल.



वीज खर्चाची बचत होईल.



पर्यावरणपूरक व
शाश्वत ऊर्जा वापर.



विद्यार्थी, शिक्षक व कर्मचाऱ्यांसाठी
सोयीसुविधा व सुरक्षितता वाढेल.



शाळेची स्वच्छ, सुंदर व
आदर्श प्रतिमा निर्माण होईल.



आपल्या सहकार्यमुळे शाळेच्या सर्वांगीण विकासासाठी मोठा हातभार लागेल.

आपल्या मोलाच्या सहकार्याबद्दल मनःपूर्वक आभार!



ऊर्जा बचत करा,
भविष्य उज्वल करा!

Together, we can light up their path to education and a brighter future!!



1. Introduction to Andhari Ashramshala.

Shri Kasaidevi Central SC Primary & Secondary Residential School, Andhari (popularly known as Andhari Ashramshala) was founded in year 1997 by Mr. Rajaram Shelar from Satara, to help the backward and downtrodden students belonging to the socially disadvantaged members of the society. The school is administered under a government registered trust "**Apang Mahila Mandal, Amaravati (Satara)**", is located in Andhari (Phalani), a remote rural village in Satara District of western Maharashtra. It is surrounded by Sahyadri mountain range hills, overlooking the backwaters of Koyana Dam.

Permitted by the Central Government, this co-ed school enrolls children from some of the most backward areas, primarily of socially and economically disadvantaged families and provides them with all necessities including lodging, boarding, clothing, and education at **NO COST**. At present, 42 boys and 38 Girls have taken admission for Class 1 to Class 10, as per the authorization to house up to 100 students.

While the financial grants from government authorities help to fund a significant portion of on-going costs, these are inadequate to cover all the long term and infrastructural requirements of the school. This necessitates additional funding and donations-in-kind from external sources.

2. Proposed Project.

Andhari Ashramshala is located at an isolated place, with dense jungle and inhospitable surroundings. The area is populated by different wild animals, who visit the school compound frequently in search of food. In addition, miscreants and thieves also target the school for petty gains.

The school is committed to providing a safe and secure environment for its students, staff, and visitors. With increasing concerns about safety in educational institutions, located at remote places, the illumination of the area during nights is absolute essential. For this purpose, the school intends to install Solar Powered Lights in the school campus covering the roads and blind spots.

The purpose of this project report is to seek financial / material support from individual donors, Non-Government Organizations (NGOs) and renowned Corporates under their Corporate Social Responsibility (CSR) initiatives.

3. Objectives.

- Provide safe and well-lit pathways for students & staff during night hours.
- Strengthen campus security.
- Prevent unauthorized access and safeguard the property.
- Reduce dependence on grid electricity & reduce recurring energy costs.
- Promote renewable energy awareness among students.
- Align with United Nations Sustainable Development Goals (SDG 7 – Affordable & Clean Energy, SDG 4 – Quality Education, SDG 13 – Climate Action).



4. Scope of the Project.

- (a) Install one (01) high mast solar powered street light at a central place in the school campus.
- (b) Install ten (10) solar powered street lights with independent solar panel, battery and pole, inside the school campus all along the road, fence/ perimeter / compound wall and at other blind spots.

5. System Specifications & Infrastructure Requirements.

(a) Solar High Mast Street Light.

- ✓ 40 Watts LED lights, Lumens 22400 min
- ✓ Day/Night Auto Sensor
- ✓ Low & High voltage Protection
- ✓ Aluminum Dia-cast Body
- ✓ BIS Approved.
- ✓ 36AH Lithium Ferro Phosphate Battery (Nos 4),
- ✓ Protections-over charge, short circuit, reverse flow, reverse polarity, deep discharge .
- ✓ 12.8 V, 100 W Mono-Crystalline Solar panel (4 Nos)
- ✓ Powered Coated brackets and tubes
- ✓ 7 Mtr (23 feet) Octagonal Pole, OD Bottom 130mm, OD top-70 mm, thickness 3 mm, superior finish, anti-corrosion paint, baseplate 220 mm x 220 mmx 12 mm, foundation bolts 16 x 600 (4 Nos).

(b) Solar High Mast Street Light.

- ✓ 24 Watts LED lights, Lumens 3360 min
- ✓ Day/Night Auto Sensor
- ✓ Low & High voltage Protection
- ✓ Aluminum Dia-cast Body
- ✓ BIS Approved.
- ✓ 24AH Lithium Ferro Phosphate Battery, Protections-over charge, short circuit, reverse flow, reverse polarity, deep discharge
- ✓ 12.8 V, 60 W Mono-Crystalline Solar panel
- ✓ Controller-RMS-Dusk to dawn, Dimming 50% after 4 Hrs.
- ✓ Powered Coated brackets and tubes
- ✓ 6 Mtr (19 feet) Tubular GI Pole, OD 75 mm, thickness 1.6 mm, superior finish, anti-corrosion paint, baseplate 220 mm x 220 mmx 12 mm, foundation bolts 16 x 600 (4 Nos).



(c) **Other Requirements.**

- ✓ Five (5) year replacement warranty for complete system.
- ✓ Full installation, commissioning and testing
- ✓ Lightning Protection.
- ✓ Earthing / grounding arrangements for each pole
- ✓ Long life, triple layer insulation DC Power cables.

6. **Budget Estimate (Tentative).**

(a) Total expenditure for Qty one (01) Solar High mast Street Light including civil work, installation and commissioning is estimated to be approx. **Rs. 65,245.00 (Rs Sixty-Five thousand two hundred Forty-five only)** including taxes. Quotation No 27/2724 from Shambhu Solar, Karad is attached herewith at Appendix A.

(b) Total expenditure for Qty ten (10) Solar Street Lights including civil work, installation and commissioning is estimated to be approx. **Rs. 1,34,890.00 (Rs One Lakh Thirty-Four thousand eight hundred ninety only)** including taxes. Quotation No 27/2723 from Shambhu Solar, Karad is attached herewith at Appendix A.

(c) Installation & service charges for the above-mentioned Solar Street Lights are estimated to be approx. **Rs. 25,000.00 (Rs. Twenty Five Thousand only)** including applicable taxes.

7. **Funding Appeal**

Andhari Ashramshala requests NGOs, Companies/ Corporates under CSR, and Government departments/ agencies to support this project. Contributions can be made toward:

- Full project sponsorship for Qty 1 Solar High Mast Street Light and Qty 10 Solar Street Lights.
- Partial sponsorship for either of the above.
- Sponsorship in terms of donation of funds or material including installation and commissioning.

8. Implementation Plan.

Phase	Activities	Timeline	Responsibility
1	Site survey & finalisation of pole locations	Week 1	Vendor + School Admin
2a	Civil works	Week 2	Vendor
2b	Procurement of equipment		
3	Erection of Poles	Week 3	Vendor
4	Installation of Solar Panles, Batteries & lights	Week 4	Vendor
5	Testing & Commissioing	Week 5	Vendor + School Staff
6	Training & Handover	Week 6	Vendor + School Admin

Training.

School administration staff shall be trained for the monitoring, upkeep and maintenance of the system. Initial training shall be provided by the vendor during installation of the system equipment.

9. Expected Outcomes.

(d) Safety & Security:

- Improved safety and security for students and staff.
- Improved visibility reducing accidents and enhancing safety from wild animals.
- Safer campus environment in line with SSA's Safe School Initiative.
- Reduced incidents of theft, vandalism, and misconduct.

(e) Economic:

- Reduction in electricity bills; long-term savings.

(c) Environmental:

- Reduction of approx. 10 tons of CO₂ annually.

(d) Social:

- Empower students with exposure to renewable energy solutions.
- Enhanced trust level of parents on School administration.
- Promotes renewable energy adoption in rural education institutions.

(f) Educational Value:

- Students gain hands-on knowledge & exposure to renewable energy adoption & technologies (SDG 4 & SDG 7).
- Reduction of drop out and increase in school attendance due to more safe & secure school environment.
- **Increased School Attendance** due to sustainable infrastructure and better facilities for students.



10. Sustainability, Maintenance & Security.

- Effective warranty clause utilization for installed equipment.
- Regular Preventive maintenance of all items.
- Annual maintenance contracts (AMC) for installed equipment shall be taken at later stage.
- Periodic cleaning of solar panels and regular maintenance of the system.
- Check the insulation and valves every 6 months.
- System upgrades shall be catered for every 3–5 years through in-house budget allocation.
- Care to be taken for safety of equipment from monkeys/ birds and miscreants.

11. Conclusion.

Andhari Ashramshala provides completely free education, accommodation, uniform, food and healthcare to tribal, orphan and socially/ economically disadvantaged students from remote villages of Maharashtra. Most of these students are first generation learners whose families cannot afford basic educational facilities on their own and hence have sent their wards to the school.

Installation of Solar Powered Street Lights will significantly strengthen the safety & security of Andhari Ashramshala. The school can ensure a safe learning environment and protect its students, staff and assets from accidents, theft and unforeseen situations. This will also enhance the trust of parents towards the school administration.

Corporates, NGOs, individuals supporting this project will not only improve the school infrastructure but also transform the future of these children and their families through safe & secure environment and quality education. Their support will directly impact the lives of tribal students, ensure their safety and inspiring them with renewable energy solutions.

The proposed solar street lighting project will transform Andhari Ashramshala into a safer, greener, and more sustainable campus that enhances safety, reduces electricity costs, and promotes renewable energy adoption in rural education institutions.

12. Additional Details of Trust and School.

Trust Registration Details		
	Trust Name	अपंग महिला मंडळ, अमरावती
	PAN	AABAA3090Q
	Trust Registration No.	एफ-३९४३ अम. (Reg. Date : १५/०३/१९९४)
	Maharashtra Public Trust Act Registration	महाराष्ट्र / ३८४० / अम.
	CSR-1 Registration No.	CSR00063551
	Income Tax Registration/Approval (80G) – URN	AABAA309QQ26PN01 [2026-27 to 2030-31 Section: 354(3)(a)]
	NITI Aayog Darpan ID	MH/2016/0104438
	Office Contact No.	9975506619, 9422400071
	Official Address	Apang Mahila Mandal, Plot No. 8, Jay Vijay Housing Society, Near Deshpande Maruti Mandir, Shahupuri, Satara, Maharashtra – 415 002.
	School Contact No.	9405942947, 02168-295194
	School Address	Shri Kasaidevi Kendriy SC Primary & Secondary Residential School, Andhari-Phalni, Near BSNL Tower, Taluka : Jaoli, Dist : Satara, Maharashtra – 415 013.
	Email Address	contactus@kasaideviashramschool.org
	Website	https://kasaideviashramschool.org/



Appendix A – Quotations

Quotation 27/2724 – Solar High Mast Street Light.pdf

Thank-you for doing business with us

**SHAMBHU SOLAR**
MILKAT NO 865/B, KIWAL, KARAD, KIVAL, Maharashtra, 415106
9930551600 shambhusolar@gmail.com
GST: 27APFFS5106P1Z9 State Code : 27
PAN : AFFF55106P

QUOTATION

Quotation Number : Quotation 26/2724 Quotation Validity : 20-07-2026 Date : 20-07-2026

Quotation For

Ship To

Shri Kasaidevi Kendriy SC Primary & Secondary Residential School.
Andhari-Phalni, Near BSNL Tower, Taluka : Jacoli, Dist : Satara, Satara, Maharashtra, 415013
State: Maharashtra
GST: URP State Code : 27
9975206619

Shri Kasaidevi Kendriy SC Primary & Secondary Residential School.
Andhari-Phalni, Near BSNL Tower, Taluka : Jacoli, Dist : Satara, Satara, Maharashtra, 415013
State: Maharashtra
State Code : 27

Sr. No.	Name of Product	HSN/SAC	QTY	Rate	Taxable Value	CGST		SGST		Total
						Rate	Amount	Rate	Amount	
1	Solar High Mast Street Light. MAKE SOLBLO SOLAR HIGH MAST(40 WATTS) - Powered by OSRAM LED - IP66- Auto Day /Night Sensor - Low Voltage Protection - High Voltage Protection - Aluminium Dia Cast Body - Lumens - [22400 lm] - IES/ E04H5/ CE/ MNRE Approved - 5 year Warranty - Made in India 35 AH x 4 Nos LITHIUM FERRO PHOSPHATE BATTERY - LifePo4 Battery - 12.8 V 100W x 4 Nos SOLAR PANEL- Mono Crystalline - MNRE APPROVED SOLAR BRACKET - Powder Coated 60 Microns Panel Bracket - Fitting with Nuts LUMINARY BRACKET - Powder Coated 60 Microns Light Bracket - Fitting with Nuts a	94055040	1	49,720.00	49,720.00	2.50%	1243.00	2.50%	1243.00	₹ 52,206.00
2	Octagonal Pole Height - 7 Meter (23 Foot) Thickness - 3 mm OD Top - 70 mm OD Bottom - 130 mm Baseplate(4*W*H) - 220*220*12 mm Finishing- Superior Finish Anti-rust coating Corrosion Property- Greater resistance to corrosion Foundation Bolt 4*16*500	73082020	1	11,050.00	11,050.00	9.00%	994.50	9.00%	994.50	₹ 13,039.00
Total			2		₹ 60,770.00		₹ 2237.50		₹ 2237.50	₹ 65,245.00

Total Amount in words
Sixty Five Thousand Two Hundred Forty Five Rupees Only /-
Bank and Payment Details
Account Name SHAMBHU SOLAR
Account No. 44104540317
IFSC Code SBIN0011132
Bank Name State Bank of India
Branch Name UMBRAJ

Taxable Amount ₹ 60,770.00
Add : CGST ₹ 2237.50
Add : SGST ₹ 2237.50
Total Tax Amount ₹ 4,475.00
TOTAL ₹ 65,245.00
Round Off Value ₹ 0.00
Total Amount ₹ 65,245.00

Terms and conditions
1. This is an electronically generated document. 2. All disputes are subject to Satara jurisdiction.



Quotation 27/2723 – Solar Street Lights.pdf

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		SHAMBHU SOLAR MILKAT NO 865/B, KIWAL, KARAD, KIVAL, Maharashtra, 415106 9930551600 shambhusolar@gmail.com GST: 27AFPF55106P1Z9 State Code : 27 PAN : AAFP55106P		QUOTATION						
Quotation Number : Quotation 26/2723		Quotation Validity : 20-07-2026		Date : 20-07-2026						
Quotation For		Ship To								
Shri Kasaidevi Kendriy SC Primary & Secondary Residential School. Andhari-Phalni, Near BSNL Tower, Taluka : Jauli, Dist : Satara, Satara, Maharashtra, 415013 State: Maharashtra GST: URP State Code : 27 9975206619		Shri Kasaidevi Kendriy SC Primary & Secondary Residential School. Andhari-Phalni, Near BSNL Tower, Taluka : Jauli, Dist : Satara, Satara, Maharashtra, 415013 State: Maharashtra State Code : 27								
Sr. No.	Name of Product	HSN/SAC	QTY	Rate	Taxable Value	CGST	SGST	Total		
1	Solar Street Light SIGM-24LF-001 Make - SOLJLO. Certification - MNRE/NABL/BIS Certified Model - Solar Street Light Light - 24 Watts, OSRAM LED 140LM/Watt, IP65, 3300 Luminous. Panel - 60Wp Mono(MBB) MNRE/IEC/NABL Approved Battery - 24AH (24AH, 12.8V) LiFePo4 BIS Approved Controller - RMS System PWM Dusk To Dawn, Dimming 50% after 4 hours Protection - Battery Over Charge, Short Circuit, Reverse Flow, Reverse Polarity, Deep Discharge Warranty - 5 Years for Complete System Solar Bracket - Powder Coated 60 Microns Panel Bracket Fitting Nuts LUMINARY BRACKET Powder Coated 60 Microns Light Bracket Fitting with Nuts. (With Installation, Commissioning And Testing.)	94055040	10	9,980.00	99,800.00	2.50%	2,495.00	2.50%	2,495.00	₹ 1,04,790.00
2	Tubular (GI) Pole Height - 6 Meter (19 Foot). Thickness - 1.6 mm. OD - 75 mm.	73082020	10	2,000.00	20,000.00	9.00%	1,800.00	9.00%	1,800.00	₹ 23,600.00
	Transport				6500.00	0.00%	0.00	0.00%	0.00	₹ 6500.00
	Total		20		₹ 126300.00		₹ 4295.00		₹ 4295.00	₹ 1,34,890.00
Total Amount in words One Lakh Thirty Four Thousand Eight Hundred Ninety Rupees Only /-						Taxable Amount ₹ 1,26,300.00				
Bank and Payment Details Account Name SHAMBHU SOLAR Account No. 44104540317 IFSC Code SBIN0011132 Bank Name State Bank of India Branch Name UMBRAJ						Add : CGST ₹ 4295.00				
						Add : SGST ₹ 4295.00				
						Total Tax Amount ₹ 8,590.00				
						TOTAL ₹ 1,34,890.00				
						Round Off Value ₹ 0.00				
Terms and conditions 1. This is an electronically generated document. 2. All disputes are subject to Satara jurisdiction.						Total Amount ₹ 1,34,890.00				
						Certified that the particular given above are true and correct for, SHAMBHU SOLAR  _____ Authorized Signatory				

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