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Name of the Organization	BRAHMANANDA KESHAB CHANDRA CO	DLLEGE
Address	111, 2, Barrackpore Trunk Rd, Dunlop, Baranagar, West Bengal 700108	P.O. Bonhooghly,
Site Address (If any)		
No. of Employees	Teaching = 66, Librarian = 1, Non-teaching = 16, I Security = 1, Pump and Generator Operator = 1 Ele	
No. of Shift E mail id	1 bkccollegebonhooghly@gmail.com	
Contact Person	Dr. PAPIA CHAKRABORTI	
Telephone/Fax	033 2577 5878	
Scope	"Teaching, Learning and Evaluation proof UG (B.A., B.Sc.) and PG (M.Sc.), CB both Hons/Major and General/Minor friendly and Energy efficient in the Col	CS/NEP degree courses for courses are Environment
Technical Area	Teaching, Learning and Evaluation, Capacity Build Institutional Social Responsibility.	ling, Skill Enhancement,
Audit Team	Lead Auditor: Amalesh Kumar Mandal Auditor: Technical Expert	No of Man days:
Starting date of Audit	19.06.2023	
End date of Audit	19.06.2023	
Brief about the organization	In 1954, Professor J. C. Ghosh, the then Vice-surveyed the available higher educational facilitie revealed that facilities were inadequate for the homogeneous Professor Ghosh stressed the immediate necessit for male and female students in the suburbs of growing demand for college education in both homogeneous that these six colleges should be establed Relief and Rehabilitation Ministry, Government of then Chief Minister of West Bengal, took up the India, which was accepted by the Central Relief Ministry agreed to set up six colleges in and around commitments as well.	s in North 24 Parganas. The survey uge influx of refugees in the area. y of setting up at least six colleges Kolkata in order to cope with the amanities and sciences. He further lished and financed by the Central India. Soon after, Dr. B. C. Roy, the proposal with the Government of and Rehabilitation Ministry. The
	The College was thus established in Bon-Hooghle colleges under this scheme with the aim of pronamed after Brahmanandra Kesab Chandra Sen, the country, during Renaissance. Initially the college High School, Kamarhati and later moved to	oviding higher education, and was ne great socio-religious reformer of ege was housed at Sagar Dutta

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	This college, a UGC registered college (under 2f and 12B) is one of the premier institutes in North 24 parganas. Initially affiliated to the University of Calcutta, the college has now been affiliated to West Bengal State University, Barasat from the session 2008-2009.
Purpose of Audit	To verify the implementation of the Energy Management System as per the ISO 50001:2018 Standards Requirement, verification of records for the conformity of the implementation.

CHANGE DETAIL:

Audit Duration for Stage 2	
Are quoted man-days adequate?	Yes
Any change in employee detail?	None
Any Change in Scope?	None
Any additional Information:	None

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ATTENDENCE SHEET:

NAME OF PERSON	DESIGNATION
smalet use mandal	Lead Auditor
Papia Chakraborti	Principal, BRCC
Kalpalaru Haldes.	IRAC, Co-ordinatos, BKCC
Madhumita Roy,	TAAC Member, SAP Coordinator
Aparapta Nay	Energy Team, Head
Shanfoe epper	Energy lear, member
Suchira Garker	Energy Sub.com.
	0 7

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AREA OF IMPROVEMENTS		
1	No such significant area identified as critical w.r.t energy consumption	

Non Conformities Raised

0 Minor/Major Non-conformance identified in the Stage 2 audit, details of Non Conformance in F50

Please respond by using your own corrective action form and include the root cause analysis with systemic corrective action. Failure to include root cause analysis with systemic corrective action will result in your responses being rejected by Lead Auditor

Tea	Team Leader Declaration (Tick or cross Each Column as per applicability)		
1	Auditing is based on a sampling process of the available information		
V	Audit is combined, joint or integrated;		
V	The effectiveness of corrective actions taken regarding previously identified		
V	nonconformities has verified		
	outcomes are effective and complying.		
	The internal audit and management review process are effective and complying with the		
	requirements.		
	The scope of certification is appropriate.		
V	The capability of the management system to meet applicable requirements and expected		
	The audit objectives has been fulfilled and achieved.		

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Recommendation:

	The quality system complies with the requirements of the reference standard: Congratulations, on the basis of the above summary, Lead Auditor is pleased to put forward a
	recommendation for Issuance of Certificate. The organization can use the AQC Mark
×	The quality system complies with the requirements of the reference standard with exception of minor NC: Congratulations, Team Leader is pleased to put forward a recommendation for Issuance of the certificate of Organization upon off-site verification of closure of all minor NC within 60 days from the date of Stage 2 audit. Responses to the non-conformances should be submitted to AQC and must include supporting evidence of closure to allow for off-site verification. In responding to the non-conformances, the organization should consider the root cause of the non-conformance and the potential for related issues in other parts of system. If all non-conformances are not closed within 60 days, a full reassessment may be required.
×	Evidence of major non conformities: Organization is not recommended for Issuance of Certificate and at this time. Follow-up audit will be scheduled to allow for on-site verification and closure of all issues within 60 days from the date of Stage 2. Once all non-conformances are closed, the recommendation for Issuance of certification may recommended. If all non-conformances are not closed within 60 days, a full reassessment may be required.
×	Not Recommended: Organization is not recommended for Issuance of certificate at this time. Full Stage 2 audit is required as the organisation has not implemented the system and process at pace.
	Proposed Audit Date for 1st Surveillance Audit 18.06.2024 (mm/dd/yy)

Client Acceptance for Report
Name: Prof. (Dr.) Papia Chakraborti
Name: Prof. (Dr.) Papia Chakraborti Sign: Papia Chakraborti
Brahmananda Keshuh Chandra College Brahmananda Keshuh Chandra College Govt.
Brahmananda Keshah Chandra College 111/2, B.T.Roud, Bon Hooghly Sponsored *
Designation: Principal
Designation: Principal

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AUDIT CHECKLIST

VERIFICATION OF DOCUMENTED INFORMATION & RECORDS AS PER STD REQUIREMENT

(C- Conformity, NC-Non-Conformity, O-Observation)

Clause Number	C/NC/ O	Document Verification detail with statement of Conformity
4 Context of the organization		
4.1 Understanding the organization and its context	С	Identified and included in Manual. (Under clause 4.1 of Doc. Ref. No. ENMS/L1, dtd. 02.04.2022)
(External and Internal Issues)		
		*To capture those issues Staff and student feedback process was initiated and documented for review.
4.2 Understanding the needs and expectations of interested parties (Need & Expectation of Interested	С	Identified and included in Manual. (Under clause 4.2 of Doc. Ref. No. ENMS/L1, dtd. 02.04.2022)
parties)		*To capture those issues Staff and student feedback process was initiated and documented for review.
4.3 Determining the scope of the energy management system	С	Scope established and included in Manual. (Under clause 4.3 of ENMS/L1 Manual)
		Scope defined in Manual and found as per course delivery. Verified against their affiliation.
4.4 Energy management system	С	Process Flow/Process description found established as guided by accreditation norms.
		Ref: BKCC/ Solar Project-PF/2020-23

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5 Leadership		
5.1 Leadership and commitment (Ensure Top Management Commitment)	С	Interviewed with Top Management (Here Principal), found committed to communication of respective Energy Policies, Projects and implementation of Energy specific Projects. The college authority felt the need to utilise renewable energy in the college campus and pursued the installation of Solar Panels by applying to the DPI in 2015 and to the Minister in Charge of Power and Non-Conventional Energy Sources in 2017. Ref: 331/DPI/PROPOSAL/SOLAR PANEL dated 10.08.2015.
		Ref: 316/ Solar/BKCC dated 31.01.2017
5.2 Energy policy (Documented, communicated, availability and Review)	C	The policy on maintaining the environment through green committee for water/waste including e-waste/paper recycle /green campus was established. The policy has been displayed through notice and on the college website by the college authority. Ref: BKCC/ Policy/GB-Agenda 2/2017/ dated 8/9/2017. Ref: BKCC/ENRM/Policy dated 02.07.2021 Advise them to display for other stakeholders as well as on the Website.
5.3 Organization roles, responsibilities and authorities (Assigned and communicated by Top Management)	С	Defined in Manual and available in the College office.
6 Planning		
6.1 Actions to address risks and opportunities	С	Risk Register found maintained (Doc. Ref. No. EnMS/POT/E-RISK/01), initially found 3 nos Energy risk identified.

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6.2 Objectives, energy targets and planning to achieve them (Consistent with Energy Policy, SEU, documented, measurable, communicated and updated)	С	Energy Objectives found established achieve action (MAP), Projects taken of Energy Resources" and monitoring set to achieve the goal.	Like "Efficien	t use
6.3 Energy review (Current type of energy use, past and current consumption, documented and undeted)	С	Energy review has been done based of and kept as documented information.		g study
updated)		Current list of Energy sources found Significant energy sources in their Gr for review. The various electrical app college campus are recorded and mai the energy team of Sap Committee.	reen monitoring oliances used in	report
		Energy Sources	2023	
		Ceiling Fan	180	
		Wall Fan	14	
		LED Light	115	
		Fluorescent Light	255	
		Ref: BKCC/ SAP-Energy Report/202	22-23	
6.4 Energy performance indicators	С	Documented in the form of Energy p	rojects.	
(Documented and updated)		The energy consumption pattern is re assessing the energy performance of Panels were instituted to reduce the e since 2020.	the campus. So	lar
		Ref: MO WBREDA/93(2018) dated	11.12.2019.	
		Ref: Agreement/ 445AB824563/CES 19.11.2020.	C-BKCC dated	
		Ref: BKCC/ Solar Project-PF/2020-2	23.	
		Ref: BKCC/ SAP-Energy Report/202	2-23.	

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6.5 Energy baseline (Documented and review periodically and retention)	С	Energy baseline declared as last year Power consumption, accordingly projects taken to review and reduce the Power.
6.6 Planning for collection of energy data	С	Electrical Energy bill statements kept available for further review.
(Accuracy and repeatable, documented and retention)		Ref: Electricity bill from CESC (Ref no 50162214005/03231 dated 1.04/2023).
7 Support		
7.1 Resources (Determination of resource required)	С	Resource requirements discussed in committee meetings. Outcome of meeting available.
(Beternmation of resource required)		The college felt a need for reducing the energy consumption and to utilize more environment friendly renewable energy sources. The proposal for Solar Panel installation was pursued from 2015 and successfully installed in 2020.
		Ref: 331/DPI/PROPOSAL/SOLAR PANEL dated 10.08.2015.
		Ref: Agreement/ 445AB824563/CESC-BKCC dated 19.11.2020
7.2 Competence (determine, documented and retain the competence)	C	Training planning and related training records found available. Awareness training conducted by External consultant. 1. Training on Standard given by External body "Management System Consultancy" 2. Training of On-Grid Solar System at BKCC by L&T Construction on 12.09.2022 (Ref. BKCC/ energy meeting minutes/On-Grid training 2022-23 dated 06.09.2022)
7.3 Awareness	С	Done through training and display.
(Objective, Policy, Non-Conformance of EnMS)		Training on Standard given by External body "Management System Consultancy"

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7.4 Communication	С	Done through display, mail, meeting minutes.
(What, When, With Whom, How & Who)		1. Student volunteers were instructed to prepare posters with quotes related to "save energy" and paste them in the classrooms and campus for general display.
		2. Members with the volunteers monitor the condition of the solar panel installed on the rooftop from time to time and take a cleaning drive when needed.
		3. The student volunteers along with the committee members give constant effort to aware the stakeholders to save energy for the betterment of the college.
		4. A green policy for green campus has been displayed on the website.
		Ref: BKCC/SAP-ENERGY/MM/2022 date 24.05.2022.
		Ref: BKCC/ SAP-Energy Report/2022-23
7.5 Documented information (Creation, Updating, Control, Retention, External Origin, Storage &	С	Ref: BKCC/ Policy/GB-Agenda 2/2017/ dated 8/9/2017. Control of documented information procedure established.
Preservation)		Control of documented information procedure established.
8 Operation		
8.1 Operational planning and control (Documneted, Plan, Implement, Control the process related to SEU and communication)	С	Operational procedures established supported with work instructions and related records. Project review checked

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8.2 Design	С	Design part not included
(Documented, Specification, design consideration)		
8.3 Procurement (Establish & Implement criteria for	С	Effectively implemented, tendering system applicable in procurement.
evaluating energy performance)		Comparative statement found available against any purchase.
9 Performance evaluation		
9.1.1 General (Monitoring, measurement, analysis and evaluation of energy performance and the EnMS)	С	Criteria set against each Project mapping, to monitor the performance and effectiveness of the Energy performance. Current Status: 1. Project mapping Vs. monitoring
9.1.2 Evaluation of compliance with legal requirements and other requirements	С	BRAHMANANDA KESHAB CHANDRA COLLEGE Affiliated with West Bengal State University Affiliated By NAAC
9.2 Internal audit (Frequency and Effectiveness)	С	Yes, Internal Audit Report w.r.t Year to year Green monitoring checks found conducted and maintained properly against all possible parameters.
9.3 Management review (Frequency and input/output)	С	Yes, their committee meeting outcome was maintained. Last conducted month of January, 2023
10 Improvement		
10.1 Nonconformity and corrective action	С	Procedure established and monitored through project planning.
10.2 Continual improvement	С	Objective and monitoring data found available.

END OF REPORT

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Name of the Organization	BRAHMANANDA KESHAB CHAND	RA COLLEGE
Address	111, 2, Barrackpore Trunk Rd, Dui	nlop, P.O. Bonhooghly,
	Baranagar, West Bengal 700108	
Site Address (If any)		
No. of Employees	Teaching = 66, Librarian = 1, Non-teaching Sweeper = 1, Security = 1, Pump and Genera Electrician = 1, Total = 88	
No. Of Shift	1	
E mail id	bkccollegebonhooghly@gmail.com	
Contact Person	Dr. PAPIA CHAKRABORTI	
Telephone/Fax	033 2577 5878	
Scope	"Teaching, Learning and Evaluati	on processes related to
	awarding of UG (B.A., B.Sc.) and	I PG (M.Sc.), CBCS/NEP
	degree courses for both Hons/Ma	ajor and General/Minor
	courses are Environment friendly	and Energy efficient in
	the College Green Campus"	<i>.</i> ,
Technical Area	Teaching, Learning and Evaluation, Capacit Enhancement, Institutional Social Responsi	
Audit Team	Lead Auditor: Amalesh Kr. Mandal Auditor: Technical Expert	Audit duration Man day(s): Technical Expert
Starting date of Audit	02.06.2023	
End Date of Audit	02.06.2023	
Brief about the organization	In 1954, Professor J. C. Ghosh, the then University, surveyed the available higher expansas. The survey revealed that facily huge influx of refugees in the area. Primmediate necessity of setting up at least sudents in the suburbs of Kolkata in ord demand for college education in both human suggested that these six colleges should be the Central Relief and Rehabilitation Ministrater, Dr. B. C. Roy, the then Chief Ministration proposal with the Government of India,	ducational facilities in North 24 ities were inadequate for the rofessor Ghosh stressed the ix colleges for male and female der to cope with the growing unities and sciences. He further e established and financed by try, Government of India. Soon er of West Bengal, took up the

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	Central Relief and Rehabilitation Ministry. The Ministry agreed to set up six colleges in and around Kolkata and bear the financial commitments as well. The College was thus established in Bon-Hooghly in the year 1956 as one of the colleges under this scheme with the aim of providing higher education, and was named after Brahmanandra Kesab Chandra Sen, the great socio-religious reformer of the country, during Renaissance. Initially the college was housed at Sagar Dutta Free High School, Kamarhati and later moved to its own present premises in 1957. This college, a UGC registered college (under 2f and 12B) is one of the premier institutes in North 24 parganas. Initially affiliated to the University of Calcutta, the college has now been affiliated to West Bengal State University, Barasat from the session 2008-2009.
Audit Objective	To evaluate the client's documented system, location & site-specific conditions and gather other details through discussions with the client's personnel to determine the organization's readiness for the Stage 2 Audit for Certification

CHANGE DETAIL

Audit Duration for Stag	e 1
Are quoted man-days adequate?	Yes
Any change in employee detail?	None
Any Change in Scope?	None
Any additional Information:	None

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ATTENDENCE SHEET:

NAME OF PERSON	DESIGNATION
smalah kor maray	Lead Auditor
Papia Chabrabarti	Principal, Bucc
Kalfalarn Halds.	IRAC, Coordinator PSKC
Madhumita Roy	IRAC Member, SAP, Coordinat
Madhumita Roy Aparip to No	Energy Team, Head
Xeljai Pal	
	Energy Team, Member
Shanks epoch	Energy Team, Member
Suchira Garkor	Energy subcon.

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SUMMARY OF AUDIT

	AREA OF IMPROVEMET
	THE TOT IN NO VENIET
(Are	eas of Improvement Which May be Identified as Non Conformities During Stage 2 Audit)
(111)	ous of improvement which istay be identified as from Comormities Burning Stage 2 radialy
1	Communication/Display of policy
1	Communication Display of policy
2	Communication/Display of Objectives
_	Communication Display of Cojectives

Non Conformities Raised

0 Minor/Major Non conformance identified in the Stage 1 audit, details of Non Conformance in F50.

Please respond by using your own corrective action form and include the root cause analysis with systemic corrective action. Failure to include root cause analysis with systemic corrective action will result in your responses being rejected by Lead Auditor

Tear	m Leader Declaration (Tick or cross Each Column as per applicability)
$\sqrt{}$	Auditing is based on a sampling process of the available information
	Audit is combined, joint or integrated;
$\sqrt{}$	The effectiveness of corrective actions taken regarding previously identified
$\sqrt{}$	nonconformities has verified

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requirements. √ The scope of certification is appropriate. √ The capability of the management system to meet applicable requirements and expected √ The audit objectives has been fulfilled and achieved. RECOMMENDATION ✓ Recommended Proceeding With Stage 2 (within 60 days from this audit date)	$\sqrt{\frac{1}{\sqrt{1}}}$	
requirements. √ The scope of certification is appropriate. √ The capability of the management system to meet applicable requirements and expected √ The audit objectives has been fulfilled and achieved. RECOMMENDATION ✓ Recommended Proceeding With Stage 2 (within 60 days from this audit date)		Outcomes are effective and complying.
 ✓ The scope of certification is appropriate. ✓ The capability of the management system to meet applicable requirements and expected to the audit objectives has been fulfilled and achieved. RECOMMENDATION ✓ Recommended Proceeding With Stage 2 (within 60 days from this audit date) 	•	The internal audit and management review process are effective and complying with the
The capability of the management system to meet applicable requirements and expected The audit objectives has been fulfilled and achieved. RECOMMENDATION ✓ Recommended Proceeding With Stage 2 (within 60 days from this audit date)		requirements.
The audit objectives has been fulfilled and achieved. RECOMMENDATION √ Recommended Proceeding With Stage 2 (within 60 days from this audit date)		The scope of certification is appropriate.
RECOMMENDATION √ Recommended Proceeding With Stage 2 (within 60 days from this audit date)		The capability of the management system to meet applicable requirements and expected
√ Recommended Proceeding With Stage 2 (within 60 days from this audit date)		The audit objectives has been fulfilled and achieved.
√ Recommended Proceeding With Stage 2 (within 60 days from this audit date)		
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√ Recommended Proceeding With Stage 2 (within 60 days from this audit date)		
× Recommend not proceeding to stage 2 until audit evidence has been submitted to AOC	REG	COMMENDATION
1 \(\circ\) Recommend not proceeding to stage 2 until addit evidence has been submitted to AQC	-	
	-	Recommended Proceeding With Stage 2 (within 60 days from this audit date)
	V	Recommended Proceeding With Stage 2 (within 60 days from this audit date) Recommend not proceeding to stage 2 until audit evidence has been submitted to AQC
	V	Recommended Proceeding With Stage 2 (within 60 days from this audit date) Recommend not proceeding to stage 2 until audit evidence has been submitted to AQC showing that the concerns raised by the auditor (s) have been rectified. A date for stage 2
	√ ×	Recommended Proceeding With Stage 2 (within 60 days from this audit date) Recommend not proceeding to stage 2 until audit evidence has been submitted to AQC showing that the concerns raised by the auditor (s) have been rectified. A date for stage 2 will then be agreed.
	V	Recommended Proceeding With Stage 2 (within 60 days from this audit date) Recommend not proceeding to stage 2 until audit evidence has been submitted to AQC showing that the concerns raised by the auditor (s) have been rectified. A date for stage 2

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Sign Off: Date 02.06.2023	
AQC Report Submission	Client Acceptance for Report
Name of Auditor: Amalesh Kr. Mandal	Name: Prof. (Dr.) Papia Chakraborti
Signature: Authorization: Empanelled Auditor from IAF accredited Certification Body, Energy Auditor from National Productivity Council, IRCA Accredited Lead Auditor on ISO 50001:2018	Principal Brahmananda Keshah Chandra College 111/2, B.T.Road, Bon Hooghly Kolkata - 700108 Designation: Principal

AUDIT CHECKLIST

REQUIREMENTS	COMMENTS	Status C/NC/O
Is the Information documented as required as per the ISO 50001:2018?	Manual and other documented information available. (Doc. Ref. No. ENMS/L1, dtd. 02.04.2022) and other documented information available.	С
Has the discussion been held with personnel of the Client company for readiness for stage-2?	Yes. Within next month the Stage-2 needs to be completed, discussed and finalized as per discussion with the Principal and IQAC coordinator.	С
Has the Client site specific conditions been evaluated?	Established, implemented and the Scope has been set as per Site specific. (Under clause 4.3 of ENMS/L1 Manual). They are maintaining their Green monitoring report year to year wise to evaluate the environment performance.	С
Has the company identified energy performance indicators, Energy baseline, Energy objectives, energy targets and energy management action plans?	Respective Energy project found taken by Authority. Like "Efficient use of Energy Resources" *Energy source and power consumption captured in Green monitoring report. Data available.	С

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Is the client having understanding with the ISO 50001:2018 Standard requirement and other requirement site specific?	Yes. Awareness training has been conducted by an external consultant. 1. Training on Standard given by External body "Management System Consultancy" 2. Training of On-Grid Solar System at BKCC by L&T Construction on 12.09.2022 (Ref. BKCC/ energy meeting minutes/On-Grid training 2022-23 dated 06.09.2022)	С
Is the scope having boundaries and specific to client organization?	Scope defined in Manual and found as per course delivery.	С
If a client has Multisite then level of control is established.	Not applicable	С
Is organization analyze energy used and consumption based on measurement and other data: (Identify current energy sources/evaluate past and present energy use and consumption?	Measurement done on Bill monitoring, list of energy sources are available, significant energy sources identified and included in Green monitoring report for review.	С

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Based on the analysis of energy used and consumption, is the organization identifying the areas of significant energy use.(identify the facilities, equipment, systems, processes and personnel working for, or on behalf of, the organization that significantly affect energy use and consumption? List of energy sources are available, significant energy sources identified. Energy program found.

Electricity consumption of BKCC campus for the period July, 2022 to May, 2023.

Months	Unit Consumed (2022-23)
July	3148
August	3144
September	3832
October	1826
November	1127
December	890
Jan	714
Feb	447
March	447
April	479
May	424

Electricity bill from CESC (Ref no 50162214005/03231 dated 01/04/2023).

C

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Has the organisation identified EnPIs (energy performance indicators) appropriate for monitoring and measuring your energy performance?	Energy baseline declared as last year consumption. EnPI is set in the form of Energy Projects. The college has a Solar Project sanctioned on11.12. 2019 and functioning since November 2020. Ref: BKCC/ Solar Project-PF/2020-23	C
Has the organisation identified, implemented and have access to the applicable legal requirements and other requirements to which organization subscribes related to energy use, consumption and efficiency?	BRAHMANANDA KESHAB CHANDRA COLLEGE Affiliated with West Bengal State University Affiliated By NACC	C
Are the resources adequate for stage 2 audit?	Yes, documented information found established as per standard requirement and organization requirements. So proposed for stage-2 audit. The implementation and monitoring system will be checked in stage-2 audit.	С
Is Internal Audit planned and performed and effective?	Yes, Internal Audit Report w.r.t Year to year Green monitoring checks found conducted and maintained properly against all possible parameters.	С
Is MRM planned and performed and Effective?	Yes, their committee meeting outcome was maintained. Last conducted month of January, 2023	С

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END OF REPORT