



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		CHAS COLLEGE, CHAS
Name of the head of the Institution		DR. KANTI MISHRA
Designation		Principal (in-charge)
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		07631180890
Mobile no.		7631180890
Registered Email		chascollege.bbmku@gmail.com
Alternate Email		info@chascollege.org
Address		P. O- KURA, DIWANGANJ, CHAS
City/Town		BOKARO
State/UT		Jharkhand
Pincode		827013
<b>2. Institutional Status</b>		

Affiliated / Constituent	Constituent
Type of Institution	Co-education
Location	Rural
Financial Status	state
Name of the IQAC co-ordinator/Director	Dr. P. C. Thakur
Phone no/Alternate Phone no.	07631180890
Mobile no.	9431740877
Registered Email	chascollege.bbmku@gmail.com
Alternate Email	info@chascollege.org

### 3. Website Address

Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.chascollege.org/images/AO_AR_2018-19_NAAC_Accepted.pdf">http://www.chascollege.org/images/AO_AR_2018-19_NAAC_Accepted.pdf</a>
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### 4. Whether Academic Calendar prepared during the year

if yes,whether it is uploaded in the institutional website: Weblink :	Yes  <a href="http://www.chascollege.org/images/2019-20_Acad_calendar.pdf">http://www.chascollege.org/images/2019-20_Acad_calendar.pdf</a>
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### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	B	2.01	2016	05-Nov-2016	04-Nov-2021

### 6. Date of Establishment of IQAC

01-Aug-2015
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### 7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Academic Audit	14-Sep-2020 1	18
Administrative Audit	14-Sep-2020	12

	1	
IQAC meeting	02-Jul-2019 1	6
IQAC meeting	26-Sep-2019 1	6
IQAC meeting	18-Dec-2019 1	6
IQAC meeting	05-Mar-2020 1	6
Student Feedback	21-Oct-2020 1	66
Parent Feedback	12-Oct-2020 1	41
Teacher Feedback	21-Oct-2020 1	16
Alumni Feedback	21-Oct-2020 1	8
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Chas College, Chas	Building Construction Fund	RUSA	2020 365	5000000
Chas College, Chas	Salary Payment	Govt. of Jharkhand	2020 365	63080160
Chas College, Chas	Lab Contingency Fund	University Grant	2020 365	226000
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View File</a>

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
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**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

Rooftop Solar Power Generation System. Modernization/ Automation of Library and Installation of RFID system. Beautification of College Campus. Development of Botanical Garden. Renovation of Buildings.

[View File](#)

**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achievements/Outcomes
Construction of internal roads of the college	Road Constructed
Examination results and other information to be communicated to students through SMS/Mail/WhatsApp	Work Under Process
Repairing of Library building and bookshelves	Repairing work finished
Purchase of equipments for archery and gymnasium	Yet to be done - Under Process
Exam results to be uploaded to the college websites	Link of University website for exam results is provided in the college website
Tobacco free campus	College is tobacco-free
Beautification of College Campus	Work Partly Done
Development of Botanical Garden	Work Partly Done
Management Information System (MIS)	Yet to be done - Under Process
More Smart Classrooms for College	Yet to be done - Under Process
<a href="#">View File</a>	

14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Executive Council	04-Sep-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
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16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	08-May-2020
17. Does the Institution have Management Information System ?	No

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

We follow the curriculum of our affiliating university (Binod Bihari Mahto Koyalanchal University, Dhanbad). This university came to existence after bifurcation of our previous university; the Vinoba Bhave University Hazaribag. Broad planning of curriculum delivery is already done in the syllabus by the university. Academic calendar is also prepared by the university which mentions probable teaching day, dates of internal examinations, co-curricular activities, etc. On the basis of the academic calendar of the university all departments plan the syllabus to be finished in time. Academic calendar is uploaded on the college website for the information to the students. Consequent to the adoption of the Choice Based Credit System (CBCS) by the University we have ensured that the academic calendar is in place much before the beginning of each semester. Teachers plan the curriculum keeping in view the diversity of students of the college. Some students are from well developed urban back ground and other students are from remote rural background from OBC, SC and ST communities. Routine committee of the college prepares the master routine and circulates it to different departments. The departments allocate subjects to teachers and prepare departmental time table. The teaching plan is prepared by respective departments under the guidance of concerned staff council. Routine is prepared strictly in accordance to the number of credit points mentioned in the prescribed syllabus of each course offered by the departments. After preparation of the departmental routine, departments conduct meetings for allotment of classes and syllabus distribution among the teachers. Based on the teaching assignments allotted in the syllabus distribution, teachers prepare their "teaching plans" according to the number of lectures allotted in the university syllabus for each topic. Along with the traditional black-board and chalk method, teachers often use ICT, Smart board, power-point projections etc during the lectures. Class tests/surprise test and student seminars are held after completion of a section of the syllabus and periodic review of performance of students is undertaken. Tutorial classes are held in some departments within class routine hours. Field tours are organized by Departments of Geography, Botany and Zoology. The final Internal Assessment outcome of the students is uploaded and submitted to the University in timely manner by the examination department of the college. The college infrastructure and facilities are continuously being upgraded to suit the needs of changing curriculum and pedagogy. The college has well equipped Laboratories and classrooms. The college arranges remedial classes to bridge knowledge gap of the 'academically weak' students to enable them to the level of the general students.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
ZERO	NIL	01/01/2020	0	ZERO	NIL

**1.2 – Academic Flexibility**

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Acharya	ZERO	01/01/2020
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BA	UG	01/07/2019
BSc	UG	01/07/2019
BCom	UG	01/07/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	Nil	Nil

**1.3 – Curriculum Enrichment**

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
ZERO	01/01/2020	Nil
No file uploaded.		

1.3.2 – Field Projects / Internships undertaken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
Acharya	ZERO	Nil
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**1.4 – Feedback System**

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
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In order to ensure constant growth of the institution and progress of the students we have put an effective feedback mechanism in place that collects, analyses and implements suggestions from the students to make academic, infrastructural and policy improvements in the college. Feedbacks on the teaching-learning process, student support system, infrastructure and administration of the college are obtained from students, parents, teachers and alumni. The format of the feedback form is almost similar to the format suggested by the NAAC and approved by the IQAC of this college. Students' feedback form for evaluation of teaching learning process has altogether sixteen attributes on teaching quality, time management and use of modern teaching aids by the teachers. Feedback form from parents contains eleven attributes on admission process, teaching quality, infrastructure, discipline and student support system of the college. The questionnaire can be downloaded from the website and Students submit their filled in feedback form to their respective departments. Feedback form is also available in physical form. Feedback from parents is taken in Parent-Teacher meeting and through mail. The questionnaire of the feedback form for evaluation of teacher by the student is designed on six point scale (Excellent, Very Good, Good, Moderate, Poor and Very Poor). Ratings points of scales are: Excellent - 10, Very Good - 8, Good - 6, Moderate - 4, Poor - 2 and Very Poor - 1. Equivalences of the points in percentage are - 10 point 100, 8point 80, 6 point 60, 4 point 40, 2 point 20 and 1 point 10. The students provide their feedback on different attributes of the feedback form. Score of all attributes are summed together and mean of the data are calculated. The resultant mean is converted into percentage. Visuals of the analysis are prepared with the help of Google Sheets software to make charts and graphs. The received outcomes of the feedback are discussed with the Principal for necessary action to be taken for improvement of the college. The feedback is also discussed in IQAC meeting for taking decisions for improvement. Similarly, parent feedback is analysed which have eleven attributes and four grade points (Strongly agree 10 (100), Agree 8 (80), Can't say 4 (40) and Disagree 0). Feedbacks from teachers and alumni are analysed and utilized in similar manner. Grievance committee of the college also receives complaints from the students. Suggestions received from parents and students are analyzed and suitable suggestions are forwarded to the Principal for implementation. Feedback of stakeholders is sought regularly about infrastructure and learning resources for ensuring their satisfaction. Accordingly, continuous review of infrastructure and learning resources is carried out by respective committees and the recommendations are integrated for upgrading, maintaining and utilizing physical, academic and support facilities.

## **CRITERION II – TEACHING- LEARNING AND EVALUATION**

### **2.1 – Student Enrolment and Profile**

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BA	UG	278	264	185
BSc	UG	352	256	145
BCom	UG	278	264	185
<a href="#">View File</a>				

### **2.2 – Catering to Student Diversity**

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution	Number of students enrolled in the institution	Number of fulltime teachers available in the	Number of fulltime teachers available in the	Number of teachers teaching both UG

	(UG)	(PG)	institution teaching only UG courses	institution teaching only PG courses	and PG courses
2019	1430	Nil	40	Nil	40

### 2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
40	16	12	1	1	4

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Chas College Chas has adopted mentorship program for our students to achieve the objective of producing responsible and knowledgeable students. Our students come from different cultural and economic backgrounds. Most of the students are from poor economic background from remote villages. Some of the students are from urban population also. Therefore, they have varied aspirations and objectives of life. So, they need personal attention of the teacher for guidance and support to adjust in the new environment of the college. Hence, the college has developed student mentoring system. In the beginning of each session, after the admission process is over, each department is required to assign a teacher-mentor to each student of first year. The same teacher continues as mentor of student for all the three years of his/her graduation. The mentor is required to prepare list of mentee students and get acquainted with them. Mentors conduct meeting with mentees to discuss their problems. If required, mentor teacher contact parents to discuss problems. The mentor teacher tries best to find solutions of issues raised by the mentee. The students freely tell their problems either orally or in writing to their mentors, who in turn listen to them patiently and solve their issues as much as possible. Mentors maintain a record of their monthly meetings with their students. Students are free to approach their teachers anytime if any issue arises. Mentor – mentee system builds confidence and sense of security among students. This whole system leads to a better connection between students and teachers and helps build a friendly and cordial relation between them. Students get a sense of protection because they know that they have someone to help in any eventuality. Student mentoring system is developed to meet the following objectives: ? To increase the teacher-student contact hours to resolve issues of slow learning students. ? To resolve academic issues of the students. ? To decrease the student drop-out rates. ? To resolve issues related to language and socio-economic background. Every department organizes orientation sessions for new students of first semesters and explains the mentoring system of the college. Departments designate a teacher as mentor and allot a group of students under the designated teacher mentor. In the mentoring process, all necessary information related to the student such as the contact number, email of the student, family income, category, gender etc are initially collected by the department and the mentor teacher. Mentor teachers maintain interaction with students and parents through individual meetings, phone and social networking sites. Teachers try to identify the problems faced by students and also search out solution of the problem. Significant contributions of mentorship programme are - 1. Improvement in the teacher-student relationship. 2. Improvement in the academic achievements of the students. 3. Decrease in the dropout rate of the students specially girl students. 4. Increase in the number of girl students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1430	40	1 : 36

### 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
67	40	27	Nil	26



2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. P. C. Thakur	Assistant Professor	Research Paper Reviewer
2019	Dr. K. N. Jha	Assistant Professor	Subject expert for teacher appointment
2019	Dr. K. N. Jha	Assistant Professor	Jury Member - National Integration Programme
2019	Dr. K. N. Jha	Assistant Professor	Rapporteur - UGC Seminar
2019	Dr. K. N. Jha	Assistant Professor	Guest - Programme on Human Rights
2020	Dr. K. N. Jha	Assistant Professor	Subject expert for teacher appointment
2020	Dr. K. N. Jha	Assistant Professor	Subject expert for teacher appointment
2020	Dr. Renu Sinha	Associate Professor	Subject expert for teacher appointment

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**2.5 – Evaluation Process and Reforms**

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BSc	S-H	SEM 6	21/10/2020	31/10/2020
BCom	C-H	SEM 6	21/10/2020	31/10/2020
BA	A-H	SEM 6	21/10/2020	31/10/2020

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Being a constituent college of Binod Bihari Mahto Koyalanchal University, Dhanbad, we strictly follow the syllabus and evaluation process of the university. Credit for internal evaluation is 20 of the total marks allotted to a paper of the subject. The internal evaluation is conducted through written examination arranged by the departments in consultation with the examination department of the college. The programme for internal examination is released by the examination department according to the academic Calendar of the college/university. Evaluation of the answer books is done by the teachers of

the department. The internal assessment marks are sent to the examination department from where it is forwarded to the university examination department. As we are bound to follow the rules and regulations of the university, we are not free to initiate reforms at the college level. However, limited reforms in internal evaluation have been started by the college. For comprehensive continuous evaluation the college has adopted regular class tests, quizzes, group discussion, departmental seminar, etc. Oral tests are also organized by the departments after successful delivery of every unit of the curriculum. Field visits and hands on experiments are also organized for evaluation. Thus, a continuous internal assessment system works throughout the session to evaluate the students on the basis of their daily performance and growth.

**2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)**

Each academic year is divided into two semesters of six months duration. Academic year starts from July and extends up to June of the next calendar year. Academic calendar is prepared by the university which is available on college and university websites. The college also prepares its own calendar on the basis of the university calendar. Academic calendar mentions details of holidays, vacations, proposed dates of starting of classes, proposed dates of internal and external examinations and proposed dated of sports and cultural activities. The college and the university arrange examinations according to the calendar. College informs students all notices and circulars related to the examinations from time to time through student notice board, departmental notice boards, college website and also verbally by the faculty members of the department. All departments conduct internal assessment of students who are well informed about these internal examinations well in advance by the departments. Internal assessment dates are also provided by the college in the proposed academic calendar prepared at the beginning of each academic session. Academic calendar mentions details of proposed dates of curriculum delivery, examination and evaluation both internal and evaluation at the university level. College organizes all academic, sports, cultural and other activities according to the calendar of the college. Besides the main academic calendar, all the academic departments of the college release notices regarding theory, practical, project works and other activities of the department. Thus, the academic calendar is adhered to by the college as per university notices and instructions.

**2.6 – Student Performance and Learning Outcomes**

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.chascollege.org/images/ProgramOutcome.pdf>

**2.6.2 – Pass percentage of students**

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
S-H	BSc	UG	116	81	69.83
C-H	BCom	UG	181	154	85.08
A-H	BA	UG	725	496	68.41

[View File](#)

**2.7 – Student Satisfaction Survey**

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.chascollege.org/images/SSS-2019-20.pdf>

### CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

#### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	0	ZERO	0	0
No file uploaded.				

#### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
NA	NIL	01/01/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NA	NIL	01/01/2020	ZERO
No file uploaded.				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NA	ZERO	NA	NIL	01/01/2020
No file uploaded.					

#### 3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NIL	Nil

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	NIL	Nil	0
International	ZERO	Nil	0
No file uploaded.			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
BOTANY	2
PHYSICS	1
COMMERCE	1
<a href="#">View File</a>	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
NIL	NA	ZERO	2020	0	NIL	Nil
No file uploaded.						

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
NIL	NA	ZERO	2020	Nil	Nil	ZERO
No file uploaded.						

3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	2	9	Nil	Nil
<a href="#">View File</a>				

### 3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
NTCP Programme	NSS	2	25
Meeting of Planning Working Committee of UBA Chas College	Unnat Bharat Abhiyan	14	2
Meeting for 150th Birth Anniversary of Gandhijee	NSS	12	38
PM's fit India programme	NSS	8	29
"Dainik Bhaskar' Programme on Personality Development	NSS	2	35

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NA	NIL	ZERO	Nil
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Personality Development	NSS Dainik Bhaskar (Newspaper)	Development of Personality	2	35
Gandhijee Birth Anniversry	NSS Dainik Bhaskar (Newspaper)	Quiz on Gandhi	2	38
Skill Development	NSS Dainik Bhaskar (Newspaper)	Programme on Skill Development	2	29
Polythene Free Villages	NSS Unnat Bharat Abhiyan	Cotton bag distribution	14	41
<a href="#">View File</a>				

3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
NIL	NA	ZERO	0
No file uploaded.			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
NIL	NA	ZERO	01/01/2020	01/01/2020	0
No file uploaded.					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
NIL	01/01/2020	ZERO	Nil



Total	24	1	1	0	1	5	13	0	3
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4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

0 MBPS/ GBPS
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4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NIL	NA

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
75000	75000	0	0

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Construction, maintenance and repairing of academic buildings, library, classrooms, electrical appliances and other physical infrastructure of the College are done by the college management. The college has designates a senior staff as Estate Officer who highlights needs of maintenance of infrastructures of the College. The college receives grant from the Higher Education Department of the state government the university. The proposal for allocation of fund for maintenance of infrastructure is raised by the College Development Committee/Building Committee in consultation with the estate officer of the college. On the basis of this proposal the college demands fund from the university and the state government. College ensures the optimal allocation and utilization of the funds for maintenance of infrastructure and purchase of new equipments. The Building Committee and Purchase Committee of the College review the proposal, the quotations are invited and the work/supply order is given to the vendor with the lowest quote (as per General Financial Rules of the Government). The records of the goods/equipments/services are maintained in the stock register/maintenance register. At the end of the financial year, the College carries out an Internal Financial Audit. The various functions of the College are carried out by the committees constituted by the college management. The garden is maintained by the college staff and some casual workers. The library is maintained by the staff of library under supervision of library committee. The security of the College is maintained by the security guards. A number of CCTV cameras have been installed to monitor the infrastructure, student activity and other activities in and around the college campus. Physical verification of the laboratory equipment is done to ensure the maintenance of laboratories. The Computer, Generator, Water Tanks, Motors, Fire extinguishers and Water harvesting systems are maintained by technicians on hire basis. Fitness center and Archery Training Area are maintained by the designated staff/coach. Play area has Cricket Pitch, Football ground and Volley ball court. Staff cabins, Visitor's area, Record rooms, Canteen, Girl's common room are maintained by the estate officer of the college. Boy's hostel is maintained by the Social Welfare Department of the State government. Laboratories are maintained by lab assistants and attendants under guidance of demonstrators and teachers. Maintenance of equipments is done by the technician on hire basis. Maintenance of computers and ICT facility is done by technicians on the recommendation of ICT in-charge.

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Stipend	0	0
Financial Support from Other Sources			
a) National	Free Education to Girl Students	Nil	0
b) International	ZERO	Nil	0

[View File](#)

#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Soft Skill in EXCEL	02/03/2019	31	TISS, Bombay
Student Mentoring	01/07/2019	1430	Organised by teachers

[View File](#)

#### 5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2020	ZERO	Nil	Nil	Nil	Nil

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#### 5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
11	9	15

### 5.2 – Student Progression

#### 5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
ZERO	Nil	Nil	NIL	Nil	Nil



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#### 5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	59	Bsc	Physics, Chemistry, Maths, Botany, Zoology	BBMKU, VBU, RU	PG
2019	40	B.Com	Commerce	BBMKU, VBU, RU	PG
2019	132	B.A	Geograpgy, Hindi, Pol. Sc., English, Sanskrit, Sociology, Philosophy, Psychology	BBMKU, VBU, RU	PG

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#### 5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	Null

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#### 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Archery	Inter College	8
Weight Lifting/ Power Lifting	Inter College	2
Western Song	Inter College	1
Debate	Inter College	2
Tabla Vaadan	Inter College	1

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### 5.3 – Student Participation and Activities

#### 5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	ZERO	National	Null	Null	Null	NIL

No file uploaded.

#### 5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The following are the aims and objectives of the Students' Union:- (i) To promote mutual contact, a democratic outlook and a spirit of oneness and discipline among the students of the college. (ii) To promote the social, cultural and intellectual development of the students of the college. (iii) To promote among the students a sense of service to the people and duty towards the State. (iv) To promote harmonious relations among all sections of the college (v) To meet, discuss and make peaceful representations to the College/University authorities on matters concerning common interests of the students. The Vice Chancellor is the Patron In-Chief of all the students' unions. The Pro Vice Chancellor is the Patron of the students' union of the University. The Dean, Students' Welfare is the Patron of the Students' Union of the University Departments. The principal of the college is the patron of the College Students' Union. MEMBERSHIP OF THE STUDENTS' UNION: (i) Every student studying at Degree level and P.G. level in a constituent or permanently affiliated college and P.G. level in the University Depts. is a member of the Students' union. (ii) Students who are studying vocational/self financing courses at the Degree or Diploma/Add-on Course level, P.G. or P.G. Diploma level Course of duration not less than one year, is also the members of the Students' Union. (iii) Every student registered for full time M. Phil/Ph.D. and actively engaged in research is a member of the Students' Union. FUNDS FOR WELFARE OF THE STUDENTS THROUGH STUDENTS UNION: (i) The membership fee for the Students' Union is Rs. 20.00 per student per annum which is collected at the time of admission. (ii) A sum of Rs. 5/- per student per annum shall be credited to the University Students' Union fund out of the fund collected above. Office bearers of the students' union are: College Students' Union (By Direct election): President - 1 Vice-President - 1 Secretary - 1 Joint Secretary - 1 Students union actively assists college administration to maintain discipline in the college. The union also raises problems of the students before college administration. The student union organizes welcome programme to Semester I students. In the programme the union introduces new students to the general environment of the college, departments, and staffs to make the fresh students feel easy in the new environment of the college. College students are nominated as representatives in some college committees by the management of the college. Students member of the college committee give significant contribution by way of suggestions in the meeting. Students Union is actively involved in the college admissions for the new academic session. Some problems of the students are solved by the members of the Students union with the help of teachers and administrative staffs. Student union assists to the programmes like, seminar, symposia, sports events, cultural programmes organized by the college to make the programme success. Student representatives are members in RUSA, UBA, NSS and IQAC.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

57

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

0

## CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Chas College has decentralized governance system and has a well developed mechanism to achieve operational autonomy to various functionaries of the college. The various levels of decentralization of administration and promotion of participative management is adopted out of which two practices are mentioned below- 1. We are a constituent College hence, Principal on the orders/advice of the University appoints faculty members in various committees for the proper function of the college. The duration of Committees is for a fixed tenure and therefore, the composition of different committees is changed to ensure a uniform exposure to Faculty members in academic and administrative works of the college. Some Committees of the college are - Admission committee, Examination committee, Finance committee, Building committee, Advisory committee, Library committee, Research committee, RUSA, IQAC, Grievance Redressal Cell, Counseling and Career Guidance and Placement Unit etc. Out of various committees function of RUSA is elaborated here. RUSA - Function of RUSA is managed by the RUSA Committee headed by the Principal. The coordinator of the committee arranges meetings related to infrastructure development of the college. Most members of the committee are senior faculties. Other members are local MLA, technocrats, social workers and college students. RUSA coordinates with the state government and university for the developmental work of the college. 2. Participation of Non-teaching staff: To ensure participation in the management of the college, Non-teaching staffs are members in Finance committee, Building committee, Advisory committee, etc. The college promotes the culture of participative management at the strategic, functional and operational levels. Faculty members, Students and office staff together make efforts for the execution of different academic, administrative, extension related and extracurricular activities. Departments of the college are headed by senior faculty member who constitutes different committees for proper function of the department. These departmental committees are represented by Faculty members and staffs of the department. 3. The Examination Committee - The examinations are carried out by the examination department of the college headed by the controller of examinations. The examination department conducts regular meetings to take decisions on the matters of the examination. The examination committee comprises of senior faculty members and non-teaching staff. The financial budget of the college is prepared by the finance committee of the college in the beginning of the year. Members of the finance committee are Principal (Chairman), Prof-in-charge, Bursar, Accountant and Head of the office. The college provides the better opportunity to all the stake holders in the decision making process. Principal is the administrative and academic Head of the college, followed by the Professor-in-Charge and the Department heads. The decisions of the departmental meetings are forwarded to the principal for approval. Principal take decisions in consultation with the departmental heads in the staff council meeting. The college follows all rules and regulations of the state government and the affiliating university. Development Committee and other statutory Committees continuously work on quality improvement. Committee gets the feedback from all the stakeholders of the institution and takes steps for further improvements.

6.1.2 – Does the institution have a Management Information System (MIS)?

No

### 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	<p>Curriculum designing and development is decided by the BBMK University, Dhanbad. The college follows and implements the curriculum developed by the university. Principal and most of the faculty members are members of curriculum development committee/academic council of the university. University Departmental Committees for Curricular Planning and Syllabi designing are involved in framing curriculum of the respective department. Restructuring of curriculum is done time to time on the suggestions of the faculty members. Syllabi are regularly updated by the university as per need keeping in view recent changes in knowledge and employability. Recently we have adopted CBCS curriculum of education.</p>
Teaching and Learning	<p>The College continuously improves its infrastructure and incorporates new technology, tools and teaching-aids, to improve the teaching and learning processes. Computers are made available to all the departments. The college has emphasized on use of ICT and smart classes by the teachers for better understanding of subject by the students. Some departments have adopted Group Learning System, quizzes, seminar etc to ensure participation of every student in the learning activity. Field tours are organized by Botany, Zoology and Geography departments. Laboratory renovation and up-gradation are done and equipments are purchased for improvement of learning resources.</p>
Examination and Evaluation	<p>End Semester examinations are conducted by the affiliating university. College conducts internal assessment of students according to the university guidelines. Class tests/surprise tests, student seminars, interactive sessions, practical examinations, debates etc are conducted by departments to evaluate the students. Sometimes evaluations are also done on the basis of participation to the field visits and group activities.</p>
Research and Development	<p>The college encourages research activities among students and faculty members. A multidisciplinary journal "International Journal for Exchange of</p>

Knowledge" is also published by the Department of Botany of the college. Most of our faculty members have successfully supervised research work for the award of Ph.D/M.Phil degree. Faculty members take major and minor research projects funded by different agencies. We regularly organize conference, seminars, etc. Journals are subscribed to promote research activities. Innovative ideas of students are promoted.

**Admission of Students**

The college has adopted Chancellor Portal for online admission maintained by the university and the state government. Merit list preparation, selection and admission of students are fully computerized. Students apply for admission after declaration of results of 102 examinations by different boards and the first merit list is prepared and displayed online. Selected students are intimated by SMS also. All these processes have promoted transparency in the admission system. Students are admitted on the merit basis as per the reservation norms of the government.

**6.2.2 – Implementation of e-governance in areas of operations:**

E-governance area	Details
Administration	Online Admission, Certificate Issue Section, Examination Section
Finance and Accounts	Accounts Section
Student Admission and Support	Certificate Issue Section, Examination Section

**6.3 – Faculty Empowerment Strategies**

**6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year**

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	ZERO	NIL	NA	Nil
No file uploaded.				

**6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year**

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
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2019	Seminar - Importance of moral value in Education	Workshop in office automation	03/09/2019	03/09/2019	18	9
2019	Workshop - Skill for e- content de velopment	Workshop- Online Admission	10/12/2019	10/12/2019	22	9
2020	Seminar -Job oriented Education	Workshop - Student Database Management	02/03/2020	02/03/2020	18	11
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
ZERO	Nil	01/01/2020	01/01/2020	0
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	Nil	Nil	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Employee Welfare fund, Group Insurance, P.F	Employee Welfare fund, Group Insurance, P.F	Poor Student Fund, Fee Exemption for poor students, Free Education for girls.

## 6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

<p>Internal Financial Audit - College has constituted a finance committee to keep proper records of accounts. The committee is headed by the Principal. Other members of the committee are Prof.-in-charge, Bursar income, Bursar expenditure, and accountant. Accounts are audited at the end of the financial year. External Financial Audit - External Financial Audit is done by the auditors of the University. University auditors work under the guidance of the Finance officer, the Finance Advisor and the Registrar of the University. External Financial audit is also conducted by Accountant General (AG) of Jharkhand State.</p>
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6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government	Funds/ Grnats received in Rs.	Purpose
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funding agencies /individuals		
zero	0	0
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6.4.3 – Total corpus fund generated

0
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**6.5 – Internal Quality Assurance System**

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	BBMKU, DHANBAD	Yes	Quality circle of College
Administrative	Yes	BBMKU, DHANBAD	Yes	Quality circle of College

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

a. Timely feedback to IQAC. b. Helps in maintaining discipline in the college. c. Supports in extension activity of college.
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6.5.3 – Development programmes for support staff (at least three)

a. Workshop in office automation b. Workshop- Online Admission c. Workshop - Student Database Management d. Workshop- Maintenance of Laboratories
---

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Modernization of library with RFID system 2. Renovation of Arts and Science Block 3. Feedback from stake holders 4. Modernization of science labs 5. Proper maintenance of IQAC records 6. Adoption of five villages under UBA for socio-economic development 7. Improvement in sports facilities
--

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Academic Audit	14/09/2020	17/07/2019	30/06/2020	18
2020	Administrative Audit	14/09/2020	17/07/2019	30/06/2020	12
2020	Student feedback	12/10/2020	17/07/2019	30/06/2020	123
2020	Parent feedback	12/10/2020	17/07/2019	30/06/2020	88
2020	Teacher	12/10/2020	17/07/2019	30/06/2020	33



feedback

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## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Workshop - Self Defence of Girls	16/09/2020	16/09/2020	35	11
Seminar - Women Safety and Respect	17/02/2020	17/02/2020	28	21
Debate on "Beti Bachao Beti Padhao"	24/02/2020	24/02/2020	21	12

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

The power produced in the country is mostly from non-renewable source the coal (53) and it is predicted that country's coal reserves won't last beyond 2040-50. Generation of electricity through this method pollutes our environment which threatens life of living organisms including humans. Therefore, the time has come to shift to the use of green energies of which one of the most suitable energy for this region is the solar energy. Keeping in view our responsibility towards society and the nation in mitigating the problem of pollution and a small initiative to support the commitment of our country to the Paris agreement Chas College Chas has adopted the use of solar energy for which we have established 10 KVA roof top solar power generation system during the year 2019-20. Almost fifty percent of the electrical requirements of the college are met by the electricity generated by solar power. Since the establishment of the solar power system in the college, we are much relieved from the menace of frequent power cuts. Frequent power cuts previously had hampered different activities of the college. The college has planned to established second solar power system on the science building in near future. With establishment of the second solar power system the college will run fully on the Green electricity produced from the solar power system. It is one of the initiatives of the college to achieve green campus status.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Scribes for examination	Yes	11
Ramp/Rails	Yes	15

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages	Number of initiatives taken to engage with and	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
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	and disadvantages	contribute to local community					
2019	1	1	16/09/2019	01	Cleaness	Health Issues	39
2019	1	1	25/09/2019	01	Gandhian Value	Social Issues	41
2019	1	1	02/10/2020	01	Polythene free drive	Polythene free drive	55
2019	1	1	01/10/2019	03	Cotton bag distribution	Polythene free village	125
2020	1	1	27/02/2020	01	Debate - Novel corona virus	Health Issues	51

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#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Gurukul System of Education in India	14/12/2020	The gurukul system

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
150th Birth Anniversary of Gandhiji	28/08/2019	28/08/2019	12
Seminar - Gandhian Value	25/09/2019	25/09/2019	41
Essay competition on Gandhis 150th Birth Anniversary	05/10/2019	05/10/2019	28
Debate on Novel Corona Virus	27/02/2020	27/02/2020	16
COVID-19 Awareness Programme	06/03/2020	06/03/2020	46

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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Rain water harvesting system is developed in the college. 2. 10KvA roof top solar power system is installed. 3. Tree plantation was done. 4. Plastic free campus. 5. Development of green belt in the campus as a carbon sink. 6. Car pulling system is practiced by teachers and staff.

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

Best Practice 1 1. Title of the Practice: Polythene-free Village 2. The Context that required the initiation of the Practice: India generates nearly 26,000 tones of plastic waste every day which makes it the 15th biggest plastic polluter in the world. Pollution cause several health related problems in humans and animals. Discarded plastic waste litter the country's roads, rivers and also form huge pile of garbage dumps across the country. During the monsoon, water accumulates in plastic bottles which become breeding ground for mosquitoes. Plastic chokes the drainage system of the city and it also restricts ground water recharge during monsoon which leads to crisis of water during summer. As a step towards containing plastic pollution we took the initiative to minimize the use of plastic for which we selected nearby villages where we organized campaign to educate people about adverse effects of plastic on health. 3. The Objectives of the Practice: Environmental degradation due to pollution and other human activities are the major causes of global concern. Major objectives of this activity were to save the environment, save earth, and to save organisms including the life of human beings. Some other objectives were - A. To stop or minimize the use of plastic B. To control pollution related health problems C. To ensure recharge of ground water during rainy season D. To make water available for drinking and agriculture 4. The Practice: We selected five villages (Kura, Diwanganj, Durgapur, Kandra and Kamaldih) to make the villages plastic free. This programme was organized by the Unnat Bharat Abhiyan (UBA) cell of the college. UBA is a flagship programme under MHRD, New Delhi and IIT Delhi. We organized rallies in the villages to highlight the adverse effect of use of plastic. Our students took part in large number in this activity. We suggested the villagers to use alternative materials in place of plastic. One such material suggested by us was cotton bags. We collected plastic from villagers and gave them cotton bags free of cost. The cotton bags were stitched in such way that it was like hand kerchief that can be kept in the pocket. When it so required, the cotton bag cum hand kerchief in the pocket can be used for both purposes as bag and as hand kerchief. In place of simple hand kerchief people can keep bag cum hand kerchief distributed by us. 5. Obstacles faced if any and strategy adopted to overcome them: It was very difficult to convince people not to use plastic bags. The villagers were of the view that plastic had become part and parcel of their life which cannot be dispensed with. They asked us the alternative material to be used in place of plastic. Our teachers, staff and students tried to convince them the bad effects of plastic on health and domestic animals. An NGO named SAMMAN FOUNDATION helped us at their best in the plastic-free village campaign of the college. We suggested the villager alternative materials to be used in place of plastic. We distributed one such material made of cotton. This was a bag cum handkerchief designed by us. This can be kept in pocket which can be used for both the purposes as bag and hanky. 6. Impact of the Practice: We convinced villager that use of polythene is harmful to health and environment. Plastic pollution is also responsible for shortage of water in the area. Villager accepted the fact and promised to minimize the use of plastic in the village. They became very happy to get hanky cum cotton bag as an alternative of the plastic. Some other impacts of this initiative are - • Villagers are now aware that restricting the use of plastic is necessary for conservation of nature and water resources. • They are now convinced that plastic cause diseases. • They accepted the fact that plastic is also responsible for shortage of water in the village. 7. Resources Required: This activity was organized with the help of students and SAMMAN FOUNDATION. A part of the resources required was arranged by the foundation. We purchased cotton cloth for bag making which was specially designed and stitched. So it did not require much financial resource. 8. About the Institution: Name of the Institution: Chas College Chas, Bokaro Address: P.O - Kura, Diwanganj, Chas, Bokaro, Jharkhand - 827013 Year of Accreditation: 2016, Grade awarded by NAAC: B Contact Person for further details: Dr. P. C. Thakur, Coordinator IQAC E.mail:

drpcthakur@gmail.com Website: www.chascollege.org Best Practices 2 1. Title of the Practice: Use of Solar Energy: A Step towards Protection of Environment 2. The Context that required the initiation of the Practice: Thermal Power plants are the major source of generation of electricity for any developing country. Around 60 of electricity generation in our country is met by thermal power plants. The thermal power plant has serious impacts on land, soil, water and air as it emit large amount of Carbon dioxide, mercury and generate large quantity of fly ash which destroys the surrounding environment. These plants also consume a large amount of water. Thermal power generation accounts for 80 of India's industrial emissions which are sources of pollution and disease in humans and animals. India has pledged to United Nations Organisation (UNO) under the Kyoto Protocol to reduce 33-35 of carbon dioxide emissions by the year 2030 (as compared to 2005 levels). The Clean Development Mechanism (CDM) under the Kyoto Protocol to United Nations Framework Convention on Climate Change (UNFCCC) provides an opportunity for the Indian power sector to earn revenue through the reduction of greenhouse gas emissions (GHG), particularly carbon dioxide (CO<sub>2</sub>). India has tremendous potential for CDM projects. Power generation using renewable energy sources such as solar energy are some of potential candidates for CDM in the power sector. Keeping in view the commitment of India to the UNO and potential of India in green energy generation, we decided to reduce load on the power grid of electricity generated by the conventional method. As per our decision we installed 10 KVA Solar Power Generation System on the roof top of our college. 3. The Objectives of the Practice: Major objective of the practice was to reduce carbon emission to honour the commitment of our country to the United Nations Organisation (UNO). Other objectives were - A. To reduce emission of green house gases and fly ash to control pollution B. To control health related problems C. To switch to uninterrupted power supply generated by the solar power D. To control Global warming E. To reduce water and land pollution F. To protect ecology and environment 4. The Practice: The matter of scarcity of electricity was discussed in the IQAC meeting. In the meeting the matter of commitment of India to UNO for reduction of Carbon Dioxide was also discussed. And finally it was decided to switch a part of our electrical load to Green energy, the solar energy. It was also a step towards our commitment to UNO for carbon dioxide reduction. As per our decision tender was invited for installation of roof-top 10 KVA solar power generation systems on our Arts Block building. This solar power system was sufficient to withstand full load of electrical demand of this building. 5. Obstacles faced if any and strategy adopted to overcome them: Jharkhand is in temperate zone of India so we have plenty of solar energy to be used. But the problems associated with this zone are storms and thunder. Storms break and displace the solar plates and similarly thunder destroys the whole set up. Monkeys also make problem by disturbing the plates and connection of wires. To solve the problem of storm we raised walls around the solar plates. For protection of surge due to thundering we developed very strong electrical earth system. 6. Impact of the Practice: Major objective of this practice was to reduce load on the electrical grid and by doing so to honour our commitment to the UNO under Kyoto protocol. Some impacts of the practice are - • Total requirement of Arts Block electricity is met by the solar system. • Reduced expenses on electrical bill. • Uninterrupted supply of electricity • A step towards green campus initiative and pollution control 7. Resources Required: It required good amount of financial resources for which we thank RUSA for providing the money required. We were fortunate to have all natural recourses specially plenty of sun light required for establishment of solar power system. We had open roof top where the system was installed. 8. About the Institution: Name of the Institution: Chas College Chas, Bokaro Address: P.O - Kura, Diwanganj, Chas, Bokaro, Jharkhand - 827013 Year of Accreditation: 2016, Grade awarded by NAAC: B Contact Person for further details: Dr. P. C. Thakur, Coordinator IQAC E.mail: drpcthakur@gmail.com Website: www.chascollege.org

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://www.chascollege.org/images/Best-Practices-2019-20.pdf>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Performance of the Institution in one area distinctive to its Vision, Priority and Thrust Use of Green Energy: The Solar energy India is facing a huge energy demand as this country has a rapidly growing economy for its more than 1 billion people. Energy is essential for different activities of life for which India is largely dependent on electrical energy which is generated by burning fossil fuel. The power produced in the country is mostly from coal (53) and it is predicted that country's coal reserves won't last beyond 2040-50. Generation of electricity through this method pollutes our environment which threatens life of living organisms including humans. Therefore, the time has come to shift to the use of green energies of which one of the most suitable energy for this region is the solar energy. India has tremendous scope of generating solar energy. The geographical location of the country stands to its benefit for generating solar energy. States like Andhra Pradesh, Bihar, Jharkhand, Gujarat, Haryana, Madhya Pradesh, Maharashtra, Orissa, Punjab, Rajasthan and West Bengal have great potential for tapping solar energy. India has pledged to curb Carbon emissions and to take control measures necessary to ensure that the global temperature rise due to pollution stays below the threshold of 2 degrees Celsius under the historic Paris Agreement. About 35 of the global greenhouse gas emissions are directly or indirectly caused by electricity and heat generation. Therefore, India has focused on use of renewable energy generation mainly on the solar energy and wind energy. Keeping in view our responsibility towards society and the nation in mitigating the problem of pollution and a small initiative to support the commitment of our country to the Paris agreement Chas College Chas has adopted the use of solar energy for which we have established 10 KVA roof top solar power generation system during the year 2019-20. Solar plates are placed on the Arts block building of the college. This region is prone to the threat of lightening and electrical surge due to different reasons for which we have developed system for surge and lightening protection. Almost fifty percent of the electrical requirements of the college are met by the electricity generated by solar power. Since the establishment of the solar power system in the college, we are much relieved from the menace of frequent power cuts. Frequent power cuts previously had hampered different activities of the college. The college has planned to established second solar power system on the science building in near future. With establishment of the second solar power system the college will run fully on the Green electricity produced from the solar power system. It is one of the initiatives of the college to achieve green campus status. Name of the Institution: Chas College Chas, Bokaro Address: P.O - Kura, Diwanganj, Chas, Bokaro, Jharkhand - 827013 Contact No.: 9431472877, 9431322107 E.Mail: drpcthakur@gmail.com Website: [www.chascollege.org](http://www.chascollege.org) Year: 2019-20

Provide the weblink of the institution

<http://www.chascollege.org/images/Distinctiveness-2019-20.pdf>

### 8.Future Plans of Actions for Next Academic Year

a) Development of Management Information system (MIS) b) Professional development programme for teachers c) Administrative training programme for non-teaching staff d) Gender equity programme e) To develop Eco-friendly campus f) Programme for promotion of universal values and ethics g) Installation of Solar

Power system for Science building h) Repair and maintenance of Commerce building  
i) Construction of new class rooms j) Construction of examination hall k)  
Construction of well equipped conference hall