

ANNUAL REPORT

2020-2021



Prepared by Dr Saakshy, KNHPI

Kumarappa National Handmade Paper Institute
(KVIC- Ministry of Micro, Small and Medium Enterprises Govt. of India)
RAMSINGHPURA SIKARPURA ROAD, SANGANER, JAIPUR-302029(INDIA)
Phone: 0141-2731975, Fax: 0141-2730369,
Email: knhpi@sancharnet.in, knhpjpr@dataone.in, www.knhpi.org.in
Recognized by Deptt. of Scientific and Industrial Research Govt. of India

FROM THE DIRECTOR'S DESK

It is a matter of great pleasure for me to place before you the progress and achievements of Kumarappa National Handmade Paper Institute during 2020-2021 in the form of Annual Report of the Institute which is an autonomous body under KVIC-Ministry of MSME.

I am highly proud of my team of the scientists, staff and all the employees who contributed in a significant way this year, in terms of the technologies developed at National level Institute and widely circulated in media along with mercurial increase in IRG of the Institute. As per the track record of the Institute, the team has many things to its credit in terms of Development of alternate ligno-cellulosic raw materials, Development and propagation of environment-friendly technologies through the use of Natural dyes, Bio-technology, Effluent treatment systems, Development of Khadi Prakritik Paint from cow dung, Human resource development, Project consultancy & technical services, Pilot plant activities, Transfer of technologies & Dissemination of information through organization of workshops, Seminars & Conferences, Publication of various research papers in reputed journals.

The Institute would like to place on record the guidance received from Shri Vinai Kumar Saxena, Honorable Chairman, KVIC to scientists of the Institute to develop various path breaking technology as given below:

1. Reuse of polythene in nature under REPLAN.
2. Utilization of cow dung for making value added paper and paper products.
3. Utilization of cow dung for making antibacterial dye for textiles
4. Utilization of black liquor of cow dung for making cosmetic products including soap, moisturizer, shampoo etc.
5. Utilization of black liquor of cow dung liquor for making Khadi Prakritik paint.

Apart from the developed technologies as mentioned above during the year 2020-21, the Institute has also received sponsored projects from Directorate of Science & Technology, KVIC. KNPPI is also thankful to the Indian handmade paper fraternity for their time to time feedback and interaction with the Institute to work on applied problems for the handmade paper industry. KNPPI pay thanks to our valuable customers to whom the Institute has provided consultancy and technical services during the year 2020-21.

This year, the Institute has earned remarkable IRG by way of supply of handmade paper carry bags made of polythene mixed paper to various Khadi outlets and this was possible only by the support given by Shri Vinai Kumar Saxena, Honorable Chairman, KVIC and Ms Preeta Verma, Chief Executive Officer, KVIC. The Institute has shown remarkable growth this year and the technologies which were developed this year were not only limited to handmade paper sector, but in other areas including Khadi Prakritik paint, antibacterial dye and cosmetic products keeping the eco-friendly credentials of the mother earth intact.

The Institute has to its credit training courses rendered under entrepreneurship development, condensed courses, one day workshop for students of schools, colleges and universities. The various training programs including training imparted for Khadi Prakritik Paint from cow dung rendered by the Institute immensely helped in generation of employment in the country.

The Institute has been cherished by Shri Vinai Kumar Saxena, Honorable Chairman, KVIC for his valuable visits in the Institute and giving his support and valuable time without any apprehensions from his highly busy schedule.

Mrs. Preeta Verma, IPS, Chief Executive Officer, KVIC has been very much supportive for the Institute by acknowledging the research work carried out by the Institute at various platforms.

I place on record that Shri Satya Narayan Shukla, Dy. Chief Executive Officer KVIC and Secretary to Chairman has always been kind enough for sparing his valuable time and joined the Institute during the visit/ meetings with Honorable Minister and Honorable Chairman, KVIC.

At last, I would like to thanks the officials of KVIC who have given support in various endeavors of the Institute

(Badri Lal Meena)
Director
KNHPI, Jaipur



FOREWORD

The Indian Handmade Paper Industry is one of the core sectors which have tremendous potential in export market. The opportunities for creation of additional employment generation among the village masses have increased mercurially by the efforts of KVIC. In this direction, I congratulate the scientists of the Institute for development of Khadi Prakritik Paint from cow dung in which I foresee great potential in increasing income of farmers, gaushalas and handmade paper units. Cow dung is abundantly available throughout the country and the Institute has initiated detailed studies on the development of various products from cow dung including handmade paper. The process by products and components of cow dung has been utilized for making Khadi Prakritik Paint. I am highly thankful to Shri Nitin Gadkari, Honorable Minister of MSME for launching the Khadi Prakritik Paint on 12th January 2021. I congratulate Shri Badri Lal Meena, Director KNHPI and his team as the Institute has received assistance of Rs. 98.7 Lakhs under Livelihood Business Incubation - ASPIRE from Ministry of MSME for handmade paper.

I am sure that that this document in the form of Annual Report brought out by KNHPI will be highly useful to all those working towards the goal of achieving sustainable and eco-friendly Indian society.

In the present era, when our Honorable Prime Minister has voiced for “Vocal for Local”, the initiatives of KNHPI under KVIC shall help to bring employment opportunities among masses from all parts of the country.

V. K. Saxena,
Chairman, KVIC/KNHPI

A. KUMARAPPA NATIONAL HANDMADE PAPER INSTITUTE

Kumarappa National Handmade Paper Institute is one of its kind in whole of the Asia which came into existence out of UNDP-KVIC GOI project and emerged as a world class centre of excellence for the growth & development of Indian Handmade Paper Industry. Looking into the present and future requirements of Indian handmade paper industry the institute has been focusing its R&D activities to explore alternative and cost effective locally available ligno-cellulosic raw materials. Energy conservation, environmental management, development and design of eco-friendly products to improve the competitiveness of handmade paper industry in domestic and global market Human resource development activities coupled with the technical consultancy has been helping the handmade paper industry in India and abroad in skill up-gradation and upliftment of handmade paper sector.

A.1 OBJECTIVES OF THE INSTITUTE

To promote the cause of the handmade paper industry through:

- ❖ Technology development for handmade paper sector by carrying out R&D
- ❖ Technology transfer and its implementation
- ❖ Maintain laboratories, pilot plant, workshops
- ❖ HR development in the sector
- ❖ Publication of books, papers, periodicals and scientific data
- ❖ To encourage discoveries examine and publish information regarding the nature and merits of inventions, improvements materials and designs
- ❖ To take and acquire patents or licenses relating to such inventions improvements or processes and to acquire and register designs and standardization marks and to develop, perfect and test their value.

A.2 MEMBERS OF GOVERNING COUNCIL OF KNHPI

1. The Honorable Chairman, KVIC/President, KNHPI
Khadi& V. I. Commission,
3, Irla Road, Vile Parle (W)
MUMBAI – 400 056.
2. Chief Executive Officer, KVIC/Vice president KNHPI
Khadi& V. I. Commission,
3, Irla Road, Vile Parle (W)
MUMBAI – 400 056.
3. Jt. Secretary
Ministry of ARI,
Govt. of India,
Udyog Bhawan,
NEW DELHI – 110 011.
4. Financial Advisor
Khadi& V. I. Commission,
3, Irla Road, Vile Parle (W)
MUMBAI – 400 056
5. Dy. CEO (NZ),
Khadi & V.I.Commission
MDTC Gandhi Darshan Rajghat, Delhi.
6. Director
Central Pulp & Paper Research Institute,
Paper Mills Road,
Himmat Nagar,
SAHARANPUR.

7. The Chief Executive Officer*
Mizoram Khadi & V. I. Board,
ZORUN (Rev. Dr. Zairema Building),
Zarkawt, AIZAWL – 796007 (MIZORAM).
8. The Secretary*
Rajasthan Khadi & V. I. Board,
Gokulbhai Bhatt Memorial Bhavan,
J.L.N. Marg, Near Telephone Exchange,
Bajaj Nagar, JAIPUR.
9. Dr. Vimal Kumar
Advisor, Ministry of Science & Technology
Department of Science & Technology,
Room No. 17-B, Technology Bhavan
New Mehrauli Road
NEW DELHI.
10. Dr R K Jain
R-14/160, Sector-14
Raj Nagar, GHAZIABAD
11. Sri Alimuddin Kagazi
M. D./Member, GC, KNHPI
Salim Handmade Paper Industry,
Gramodyog Road, Sanganer, JAIPUR.
12. The Director
Handmade Paper & Fiber Industries
Khadi & V. I. Commission
3, Irla Road, Vile Parle (W)
MUMBAI- 400 056

13. Head of Department
Indian Institute of Technology Roorkee
Department of Paper Technology
Paper Mill Road
SAHARANPUR-247001
14. The Director, KNHPI/Member Convener G.C.
Kumarappa National Handmade Paper Institute,
Ramsinghpura, Sikarpura Road,
Sanganer,
JAIPUR.

Co-opted Members from handmade paper units one each from six zones as invited members

- A. Shri B. G. Seetharam, B.G. Handmade Paper (South Zone)
- B. Shri Pramod Garg, Shankar Gramodyog Sewa Sansthan, Hapur
- C. Shri Abul Hassan, A. L. Paper House, Jaipur (North Zone)-
- D. Shri Sangbu Tsering Bhutia, Gangjong Paper Industry Kalimpong
- E. Shri C.S. Kelkar Heritage Industries Pune (West Zone)-
Zephyr Papers, Lower Nandok, P.O. – Ranipool, East Sikkim

RESEARCH ADVISORY BOARD

NAME	DESIGNATION	ORGANIZATION
Dr. R. K. Jain	Ex-Director,	CPPRI, Saharanpur
Dr. Vimal Kumar,	Advisor, Ministry of Science e& Technology,	Department of Science & Technology
Dr. S Greep,	Director	S&T, KVIC, Mumbai
Shri Pramod Garg, Hapur	Owner of Handmade paper unit	Shankar Gramodyog Sewa Sansthan,
Shri Badri Lal Meena	State Director	KVIC, Jaipur

B. STATUS OF HANDMADE PAPER INDUSTRY IN INDIA

The handmade paper making entered into India in the 11th Century and saw its growth to the zenith during the Moghul period. The industrialization brought the doom for this industry also during the reign of British empire. The pathetic condition of handmade paper industry was tried to be salvaged during the efforts of great visionaries, the likes of Mahatma Gandhi and Prof J. C. Kumarappa. And in the independent India, the responsibility for the survival of this industry was shouldered upon Khadi & V.I. Commission. And in the year 1991, there happened to be the rise of Kumarappa National Handmade Paper Institute at Sanganer Jaipur for the revival and strengthening of Indian handmade paper industry. The industry has seen the tremendous growth since the inception of the institute because of many focused activities of the Institute. Due to increase in living standard of the society, literacy rate in every state of India, industrialization, modernization the demand of paper is bound to increase. Forest levels in the world are decreasing because of huge deforestation occurring to manufacture paper & board and for other purposes. The following table shows how the deforestation is taking place all over the world and is leading to precarious situation environmentally. The Forest cover in our country is 23.8% as per the World Bank Report 2015. It has slightly increased from 23.1 % in the year 2012. To maintain the ecological balance, there should be at least 33% of the forest cover of the total land area of the nation. A lot of deforestation is taking place for paper production from forest based raw materials and for the livelihood of the tribal. Although there is more stress on use of recycled fiber and that has increased in our country also i.e. up to 47% from 30% but still 31% of paper production is dependent upon forest based raw materials. India having forest cover of 23.8 % as per the information given above, cannot afford to lose its forests further to harm its ecology and environment. Also a country of size of ours with huge proportion of unemployed youth cannot go for big industries which are functioning in a much mechanized way. The solution to un-employment and environment is just one and that is handmade paper making. Number of small scale handmade paper based on locally available non-forest based raw materials which are not only available in plenty but cheaper also, can be set up with less capital investments. The capital required for big paper mill is very high and runs into multi crores. Thus the handmade paper industry can be seen as a prospective industry for the time to come, though facing challenges at present which is hoped are short lived and not going to remain for long.

C. INTERNAL REVENUE GENERATION

STATUS OF IRG GENERATED DURING 1ST APRIL 2020 TO 31ST MARCH 2021

S.N	ACTIVITY	TARGET FOR YEAR 2020-21 Rs. in lakh	TARGET ACHIEVED AMOUNT Rs. in lakh
1	Training	12.00	23.86
2	Consultancy/ Technical Services	4.00	5.40
3	Sale of Paper/ Domestic market of carry bags/ paper products/file cover/boxes/paint (IRG Approx)	12.00	6.16
4	Misc Income (Guest House, Tender Fee, Interest etc.)	2.00	3.75
	TOTAL	30.00	39.17

D. PROGRESS AND ACTIVITIES

D.1. HUMAN RESOURCE DEVELOPMENT

Under Training Program, the Institute conducted various training courses during the year 2020-21. The details of training programs are as:-

S,N	NAME OF TRAINING	DURATION OF TRAINING	NO, OF CANDIDATES TRAINED FROM 1 ST APRIL 2020 TO 31 ST March , 2021
1	Special Training Program for Handmade Paper Making	5 days	15
2	Condensed Course for Handmade Paper Making	Five days	16
3	Onsite Training on Handmade Paper Making at Tawang in Arunachal Pradesh	Six days	12
4	M.Tech Dissertation Program in Chemical Engineering/Environment Laboratory	Ten Months	05
8	M.Tech Dissertation Program in Biotechnology/Microbiology	Six months	01
9	One day Training cum Workshop/ Awareness on Recycling of Waste Paper for handmade Paper Making” and “ Utilization of waste for making value added paper and paper products under Swachh Bharat” in Environment Laboratory/Biotech Lab/Paper section .	One day	30
10	PhD. Study in Chemical Engineering/Environment Laboratory/Biotechnology/Microbiology	Six months	01
11	Training Program on Khadi Prakritik Paint	05 days	371
		TOTAL	451

From the above training program the Institute received an amount of **Rs. 23.86 Lakhs** as training fees

D.2 TECHNICAL AND CONSULTANCY SERVICES

The paper testing laboratory of the Institute is engaged in testing of paper and products for fiber analysis, pH, Ash etc. for internal research and external agencies. The consultancy services were provided to the following agencies:

Technical services for *Sheet making from Barley straw pulp (Jau) Hordeumvulgare* to a Bio-entrepreneur from Pune, Maharashtra. (IRG-Rs. 10,000/-)

Technical services provided to identified two PMEGP units under ABFPL, KVIC, Govt. Of India for new design and development of packaging using handmade paper under “**Quality Control/Packaging/Branding Awareness Programme**”. An IRG of Rs. 84,500/- generated.



The technical services were rendered to the following agencies:

S.N	Name of party	Tests details
1	M/s Jai Kamal Printers, Jaipur	Basis weight of two paper samples
2	M/s Jai Kamal Printers, Jaipur	Basis weight of two paper samples
3	M/s Shyam Enterprises, Jaipur	Basis weight of two paper samples
4	M/s Bharat Financial Inclusion Limited, Jaipur	Basis weight of three paper samples

5	M/s Sagar Industries, Jaipur	pH, Total solids, Hardness of water sample
6	M/s Sagar Industries, Jaipur	Hardness of water sample

The IRG of Rs. 54,850/- generated by way of testing services by the Institute.

D.3 PILOT PLANT AND PRODUCT DEVELOPMENT

The pilot plant of the Institute is engaged in demonstration and practical training during on- going training program and workshops. Apart from these services of pilot plant is also utilized to manufacturing of different types of papers like tissue paper, balloting paper , paper for file covers and envelopes and paper for carry bags to increase the IRG of the Institute through domestic marketing. During the period, the Institute under domestic market supplied the stationery items, like file covers, folders, Envelops blotters, Khadi Prakritik paint etc including of different sizes of carry bags to KVIC office and KGBs.

The details of Carry bags/ file Covers and Khadi Prakritik Paint etc supplied by KNPPI are as given below:

S.N	NAME OF THE ITEMS	NO. OF CARRY BAGS /FILE COVERS SUPPLIED	AMOUNT Rs. /-
1	Carry Bags	225000	2139587
2	File Covers/ Folders/ Noting Sheets/ Pads etc		951492
3	Khadi Prakritik Paint	5395 Liters	1012500
		Total	41,03,579

D.4 SPONSORED PROJECTS

RESEARCH AND DEVELOPMENT

Under research and development Program of the Institute the followings research projects are allotted by S&T, KVIC and DST Govt. of India. The studies are being conducted. The details of the projects are under:-

S.N.	NAME OF THE PROJECT	PROJECT COST Rs. in lakh	PROGRESS
1	Decolorization of mixed colored hosiery cutting/tailor cutting and total chlorine free bleaching of lingo-cellulosic raw materials using ozonation and enzymatic route <i>(Project sponsored by S&T KVIC):</i>	13.50	Completion report submitted
2	Uniform external sizing/Coating of handmade paper <i>(Project sponsored by S&T KVIC)</i>	9.13	Completion report submitted
3	Development of Antibacterial natural dye from cow dung liquor in handmade paper making process using cow dung as raw material. <i>(Project sponsored by S&T, KVIC)</i>	13.40	Completion report submitted
4	Development of (Khadi Prakritik Paint) from cow dung. <i>(Project sponsored by S&T, KVIC)</i>	14.30	Completion report submitted
5	Extraction of certain pigmented microbes from nature and to see the possibility of using extracted pigment for dyeing the Handmade Paper <i>(Project under S&T , KVIC)</i>	15.00	Completion report submitted
6	Development of Eco-friendly Handmade Paper & Paper Board from Bamboo & other lignocellulosic raw material available in North East region <i>(Project under DST Govt. of India)</i>	30.90	The studies under progress and request letter sent for extension of the project period.

KNHPI-ASPIRE

The funds of Rs. 48.90 Lakhs has been received as first installment of total sanctioned funds of Rs. 98 lakhs for implementation of KNHPI-ASPIRE project funded by MSME, Govt. of India. The tendering for purchase of equipment and machineries under progress. The tender of procurement of Effluent Treatment Plant has been finalized and submitted to Dy. CEO (NZ) for his due approval.



Cowpathy hand sanitizer was developed by the Institute.

D.5. PARTICIPATION IN TRAINING/ EXHIBITION/CONFERENCES/MEETINGS

Dr Sunita Chauhan, RA participated in Online Webinar on “COVID’19 Pandemic Demonstrates the Power of Biotechnology” organized by Dr. B. Lal Institute of Biotechnology, Jaipur on 2.5.2020.

Dr Sunita Chauhan, RA participated in online Webinar on “COVID 19- A Wake Up Call To Progress Towards Sustainability” organized by Dr. B. Lal Institute of Biotechnology, Jaipur on 16-5.2020.

Dr Sunita Chauhan, RA completed the desired training and assessment for becoming a Certified Trainer(TR155969) under National Skill Qualification Framework, Level-5 (Valid up to 30.1.2023) organized by Management and Entrepreneurship and Professional Skills Council (MEPSC) during Jan'2021.

Dr Saakshy, RA successfully completed 2 day training organized by National Institute of Training, BIS for Standardization from 2nd to 3rd March 2021.

Dr Sunita Chauhan, RA has successfully completed AICTE Training and Learning (ATAL) Academy Online Elementary Faculty Development Programme (FDP) on “Green Technology and Sustainable Development” organized by Amity University of Rajasthan, Jaipur during the period from 14.06.2021 to 18.06.2021.

D.6 MEETINGS ORGANIZED/ATTENDED

R&D Committee Meeting

Ist R&D committee meeting held on 6th August 2020. The discussion was held regarding new projects to be submitted to S&T, KVIC.

6.1 Development of standards for handmade paper and paper products

Two project proposals entitled “Development of standards for different grades of handmade paper products” & “Development of standards for different grades of handmade paper” were submitted by Dr Saakshy, PI of the project along with Moh. Esa Khan as Co-PI. The committee opined to combine both the project proposals in to one project proposal and prioritize the equipment accordingly. The standards shall be made of shopping bags, file covers, blotting paper etc. The project proposal has been recommended to be submitted to S&T, KVIC.

6.2 Development of molded products for packaging boxes

The project entitled “Development of molded products for packaging boxes” was submitted by Moh Esa Khan as PI and Dr Saakshy as Co-PI. The committee suggested to prioritize the products and work on identified molded products depending on the application and market demand. The raw material shall be used based on the pulp based on NE project and also from additional ligno-cellulosic raw material. The pulp shall be produced as part of ongoing NE project and core project of pilot demo project of KNHPI.

6.3 Product Development and Value Addition from Handmade Papers & Paper Boards

The project entitled “Product Development and Value Addition from Handmade Papers & Paper Boards”.

The committee sought more information pertaining to type of value addition and equipment used for embossing as Mr. Pramod Garg, representative of handmade paper unit told the committee that the embossing dies is very costly while some of the units have started to give embossing impression on CMV which is comparatively cheaper method. The more detailed studies needs to be conducted for the proposed project proposal and put up in next committee meeting.

6.4 Extraction of lignin from black liquor for making chemicals/aromatics

As on date, the project was found to be relevant for forthcoming requirement and utilization of lignocellulosic fibrous raw material to make process environment friendly. The lignin generated from additional /alternative lignocellulosic raw material being explored as part of North Eastern project shall be characterized through outsourcing funds in NE project for which the services of an expert institution shall be utilized.

However, seeing the relevance of the project, the project proposal is recommended for utilization studies of black liquor and the spent liquor being generated would be explored for its safe disposal.

6.4 DISCUSSION ON FINALIZATION AND STRENGTHENING OF LABORATORIES OF KNHPI

The R&D committee suggested to constitute the committee to review the status of the existing equipment and review the list of equipment which are in old/condemn condition and needs to be replaced. Second R&D committee meeting held on 29th June 2020. Third R&D committee meeting held on 20th November 2020. The discussion on new project proposals to be submitted to S&T, KVIC was held. Total eight project proposals were submitted by the four scientists of the Institute out of which seven project proposals recommended by the committee are as given below:

- I. Offset & leaf foil printing on handmade paper made out from hosiery waste and lignocellulosic raw material.
- II. Development of molded products for food grade packaging boxes.
- III. Design and development of machineries used in handmade paper industry to reduce energy consumption and labor drudgery
- IV. Development of antibacterial coated paper to be used in various areas.
- V. Utilization of lignin from black liquor after pulping of alternative raw material for making various value added products to make handmade paper unit pollution free
- VI. Use of invasive plant species (viz. *Lantana camara* and *Prosopis juliflora*) for making handmade paper and their products.
- VII. R&D and technical intervention for utilization of agro-residues through onsite management of stubble for making handmade paper.

VIII. Development of biofertilizer from waste liquors of handmade papermaking from cow dung

Fourth R&D committee meeting was held on 23rd February 2021. The committee members again reviewed the R&D projects as per demand of handmade paper industry and the following four proposals are recommended by committee in the interest of R&D. The details are as given below:

- I. Development of molded products for food grade packaging boxes to be used as takeaway from restaurants and hotels with other molded products for different applications.
- II. Design and development of machineries (beater, drying cum calendaring, for improved performance and quality of the handmade paper board and paper products to be used for Offset & leaf foil printing on handmade paper.
- III. Utilization of black liquor rich effluents from pulping of ligno-cellulosic biomass for its application as value added industrial byproducts.
- IV. Optimization and demonstration of the process for production of handmade paper board & products utilizing ligno-cellulosic waste biomass.

GC meeting

27th GC meeting was held on 23rd February 2021 under chairmanship of Honorable Chairman, KVIC.





Shri Badri Lal Meena , Director KNHPI showing the activities of KNHPI to Shri Vinai Kumar Saxena, Honorable Chairman, Shri Deepak Narang, Dy. Secretary MSME and Ms Preeta Verma, Chief Executive Officer reviewing the activities of KNHPI on 23rd February 2021.

D,7 LAUNCH OF KHADI PRAKRITIK PAINT ON 12TH JANUARY 2021 BY SHRI NITIN GADKARI, HONORABLE MINISTER OF MSME



Left to Right: Shri Badri Lal Meena, Director KNHPI, Moh Esa Khan, SRA, Shri Vinai Kumar Saxena, Honorable Chairman KVIC, Shri Nitin Gadkari, Honorable Minister of MSME, Shri Giriraj Singh, Ex- Honorable Minister of MSME, Shri Satya Narayan Shukla, Dy. CEO (NZ), Shri , State Minister MSME, Shri Vivek Saxena, Consultant

D.8. VISITORS AT KNHPI

During 2020-21, the Institute was visited by delegates. Some of the prominent are mentioned as below:

Dr M L Meena, Associate Professor and Prof. Dilip Sharma, Professor (HAG) MNIT, Department of Mechanical Engineering visited KNHPI on 31st July 2020



D.8 VISIT OF KNHPI STAFF TO OTHER PLACES

Dr Saakshy, RA visited Bhabha Atomic Research Centre (BARC) on 1st January 2021 for analysis of radioactive shield properties of Khadi Prakritik Paint.

D.9. PUBLICATIONS

- **Chauhan,S.** and Meena, Badri Lal(2021) “Introduction to pulp and paper industry: Global scenario” Physical Sciences Reviews, volume 6, issue 5: 81-109 De Gruyter | published online: February 20, 2021 <https://doi.org/10.1515/psr-2020-0014>
- **Chauhan, S** and Kulshreshtha,S. (2021) “Application of inorganic amendments to improve soil fertility” In: Phytomicrobiome interactions and sustainable agriculture. Ed. A.Verma, J.K.Saini, A.E.L.Heshm and H.B.Singh, Online ISBN: 9781119644798,PrintISBN: 9781119644620.<https://doi.org/10.1002/9781119644798.ch10>.
- **Chauhan,S.;** Dixit R. and Verma, H. (2020) “Enzymatic hydrolysis of rice straw for handmade papermaking” Int. J. Current Microbiology and Applied. Sciences. Special issue-11, 3117-3128.

- Aswal, S.; **Chauhan, S.** and Bhatnagar, P. (2020) “Identifying efficient isolates of white rot fungi for lignin degradation of *Calotropis procera* fiber in handmade papermaking” Journal of Scientific Research (JSR), volume 64, issue 2: 183-191 (Pub. Banaras Hindu University, Banaras, UP, India)
DOI: 10.37398/JSR.2020.640226 183
- Jha D., Kulshreshtha S., **Chauhan S.** (2020) Plant Microbial Ecology as a Potential Option for Stress Management in Plants. In: Varma A., Tripathi S., Prasad R. (eds) Plant Microbe Symbiosis. Springer, Cham, doi.https://doi.org/10.1007/978-3-030-36248-5_17
Online ISBN978-3-030-36248-5, **Print ISBN**978-3-030-36247-8
- **Chauhan, S.** and Meena, B.L. (2021) “Introduction to pulp and paper industry: Global scenario” In: *Green Pulp and Paper Industry: Biotechnology for ecofriendly processing*. edited by Amit Kumar, Puneet Pathak and Dharm Dutt, Berlin, Boston: De Gruyter, 2021, pp. 1-30.
<https://doi.org/10.1515/9783110592412-001>

D.10. PRESENTATIONS/ INVITED LECTURES

Invited lecture delivered by Dr Saakshy, RA, KNHPI on 16th October 2021 in webinar on “Save Plants, Recycling of Paper and cellulosic waste” on “Present situation to keep our environment clean and green” organized by Jiwaji University, Gwalior, Entrepreneurship & Skill Development Cell.

D.12. REPRESENTATION IN EXTERNAL COMMITTEES

Bureau of Indian Standards, New Delhi

- Dr. Saakshy, RA KNHPI-Member of CHD 15 (Paper and its Products Sectional Committee),
- Dr. Saakshy, RAKNHPI -Alert member of alert panel CHD 15
- Dr Sunita Chauhan, RA, KNHPI continued acting as an **External Examiner** for conducting Practical Exams, Setting Question Papers and Central Evaluation of the B.Sc. students of Microbiology/Biotechnology/Environmental Sciences of The IIS University, Jaipur.

D.13. PATENT FILED

Kumarappa National Handmade Paper Institute has filed application for patent on “Cow Dung paint” on 12th January 2021.

D.14. OTHER ACTIVITIES

The Moringa plantation program was conducted on 28th July 2020.



INDEPENDENCE DAY

The Independence day was celebrated on 15th August 2020.

E. STAFF OF KNHPI AS ON 31ST MARCH 2021

S.N	NAME	DESIGNATION	QUALIFICATION	EXPERIENCE	Year of appointment
1	Mr. Badri Lal Meena	Director, State Office, KVIC	M.Com (Business Administration), M.A (Rural Development), PG Diploma in Rural Development, Diploma in Management, Certificate in Human Rights, Certificate in Women Empowerment through Self help group formation,	30 years	1992
2	Dr. Atul Kumar	Senior Research Assistant	M.Sc. (Chemistry), M.Tech. (Pulp & Paper), Ph.D. (Chemistry)	22	1999
3	Moh. Esa Khan	Senior Research Assistant	M.Sc. (Chemistry), M.Tech. (Pulp & Paper)	22	1999
4	Dr. Saakshy	Research Assistant	Ph.D. (Chemical Engineering), GATE Qualified in Chemical Engineering, M.Tech. (Chemical Engineering), M.Sc. (Ecology & Environment), M.Sc. (Pulp & Paper).	21	2000
5	Dr.(Mrs) Sunita Chauhan,	Research Assistant	M.Sc. (Microbiology), Ph.D. (Microbiology)	21	2000
6	Mr. Anuj Kumar Singh	Steno	M.Com	24	1997
7	Dr. Harshwardhan Sharma	LDC	Ph.D	24	1997

8	Mr. Nizamuddin Rangrej	Driver	8 TH Pass	24	1997
9	Mr. Kamal Raj Sharma	Laboratory Assistant	Manager Course in Handmade Paper making from Handmade Paper Institute, Pune	19	2002
10	Mr. BhairavDutt Sharma	Skilled Operator	12 th pass	21	2000
11	Mr. Pankaj Sharma	Skilled Operator	M.A	11	2010
12	Mr. Ram Prasad Sharma	MTS	12 th pass	24	1997
13	Mr. Mohan Singh Adhikari	MTS	M.A	21	2000

STATUS OF STAFF STRENGTH AS ON 31.03.2021

POST & PAY SCALE (As per 6 th pay commission)	SANCTI ONED	STATUS		Remarks
		FILLED UP	VACANT	
Director 37,400-67,000 GP-10,000	1	-	1	
Scientist – F 37,400-67,000 GP-10,000	1	-	1	
Dy. Director/ Scientist-B 9300-34800 GP-5400	2	0	2	
Pilot Plant Incharge 9300-34800 GP-4800	1	-	1	
Sr. Res. Assistant 9300-34800 GP-4200	4	2	2	
Research Asstt. 9300-34800 GP-4200	3	2	1	
Accountant 9300-34800 GP-4200	1	-	1	
Superintendent 9300-34800 GP-4200	1	-	1	
Stenographer 5200-20,200 GP-2400	1	1	-	
Store Keeper 5200-20,200 GP-2400	1	-	1	
L. D. C. 5200-20,200 GP-1900	1	1	-	
Account Asstt. 5200-20,200 GP-1900	1	-	1	

Driver 5200-20,200 GP-1900	1	1	-	
Laboratory Asstt. 5200-20,200 GP-1900	1	1	-	
Skilled Operator 5200-20,200 GP-1800	3	2	1	
MTS 5200-20,200 GP-1800	2	2	-	
TOTAL	25	13	12	



S OM & Co.

(Chartered Accountants)

INDEPENDENT AUDITOR'S REPORT

To,

The Members of

Kumarappa National Handmade Paper Institute (KNHPI)

Ramsinghpura, Sikarpura Raod,

Sanganer, Jaipur 302029

Report on the Financial Statements

We have audited the accompanying standalone financial statements of Kumarappa National Handmade Paper Institute (The Society of 'KNHPI'), which comprise the Balance Sheet as at 31st March 2021, and the Income and Expenditure Account for the year then ended, Significant Accounting Policies and other explanatory information annexed hereto.

KNHPI's Responsibility for the Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance of the KNHPI in accordance with the accounting principles generally accepted in India, including the Accounting Standards issued by the Institute of Chartered Accountants of India (ICAI). This responsibility also includes design, implementation and maintenance of adequate internal financial controls relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with auditing Standards generally accepted in India. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the Statements. The procedure selected depends upon auditor's judgment, including the assessment of the risk of material misstatements of the Statements, whether due to fraud or error. In making those risk assessment, the auditor considers internal control relevant to the Society's preparation and fair presentation of the financial statements in order to design audit procedure that are appropriate in the circumstances. But not for the purpose of expressing an opinion on the effectiveness of the KNHPI's internal controls. An audit also includes evaluating the appropriateness of accounting policies used and

Address: 118, Narendra Nagar, New Sanganer Road, Sodala, Jaipur-302019

Phone No. +91-9785950587, 8949302726, Email: sumitgarg012@gmail.com





S OM & Co.

(Chartered Accountants)

the reasonableness of accounting estimates made by the KNHPI Management, as well as evaluating the overall presentation of Statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Basis of Qualified Opinion

1. No Reconciliation provided for the State Bank of India, the closing balance as on 31st march 2021 not reconciled with the books of accounts.
2. Cumulative Impact of our observations in paragraphs is not ascertainable as the management has not made estimates of their effect on profit/loss for the year as well as on the assets and liabilities of the KNHPI's as on 31st March, 2021.

Qualified Opinion

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid financial statements, give the information required by the Act in the manner so required except the effects /possible effects of the matter described in the basis for qualified opinion paragraphs 1 to 2 stated above and give a true and fair view in conformity with the accounting principles generally accepted in India

- (a) In the case of the Balance Sheet, of the state of affairs of the KNHPI as at 31st March, 2021 and;
- (b) In the case of Statement of Income & Expenditure Account, for the period 01-04-2020 to 31-03-2021

Other Reporting Matters

We report as under to the best of our knowledge and according to the information and explanation given to us;

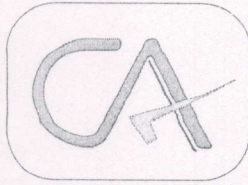
1. Management had not ascertained the Contingent liability or Provision on account of Litigations pending against the society (KNHPI). In the absence of the relevant information & reconciliations, we are unable to quantify the possible effect of this matter on Financial Statements.
2. Loan & advances assets, debtors, trade payable and current liabilities are subject to confirmation and reconciliation.
3. Balances available with GST Receivable/Payable and TDS on GST Receivable are not reconciled with GST Cash and Credit Ledger. The management had not ascertained the liability on account of Interest & Penalty on account of excess/Ineligible claim of GST Input Tax Credit, and understatement of GST Output tax liability. In the absence of the relevant information & reconciliations, we are unable to comment on appropriateness of carrying amount of GST

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(Chartered Accountants)

receivable/Payable and TDS on GST receivable, and also unable to comment the understatement of Liability on account of Interest on GST, understatement of expenses to this extent.

4. Books of accounts are maintained on cash system of accounting.
5. The accounting and internal control system underlying the entity, including material compliance with the Entity objectives and financial management hand book, oversight of the entity funds were not adequate and internal control system adopted by the KNHPI's are not commensurate with the size and operation of entity.
6. At the time of Physical verification of Fixed Assets/Stock, we observed that code numbers were not mentioned on the stock items/alloted assets and classication of Obsolute Items, Slow-Moving Items, Non-Moving Items have not been distinct.
7. Non-Plan Unspent Grant Subject to to confirmation with KVIC.
8. The value of stock shown in schedule – G has been incorporated as certified by the management of the society, since the society is not having policy of valuation of the same.
9. The Land and Building (Shown in Schedule – E) are not being held in the name of the society and the title documents are in the name of KVIC.
10. In absense of Accounting policy/Circular/Guidelines for Allocation of Expenditure/Income, we are unable to comments whether Allocation of Expenditure/ Income to different projects and different heads have been made appropriately by management.
11. Goods and Service tax returns and related data were not made available to us for verification. hence it is not possible to us to comment upon GST compliances
12. Revenue from operation as per Books of account is not reconciled with MIS.

UDIN 21427746AAAACI7320
Place: - Jaipur
Dated: - 09-12-2021

For S Om & Co.
Chartered Accountants
FRN- 024633C



Address: 118, Narendra Nagar, New Sanganer Road, Sodala, Jaipur-302019
Phone No. +91-9785950587, 8949302726, Email: sumitgarg012@gmail.com

Significant Accounting Policies and Notes to Accounts:**1.1 Accounting Convention**

These statements of accounts have been prepared under the historical cost convention and going concern assumption.

1.2 Basis of preparation

Life membership fees has been capitalised while annual membership fees has been taken as income.

1.3 Grant in Aid

Government Grants received to the extend utilized for capital expenditure being added to the capital reserve.

1.4 Income Recognition

The Society recognised income and expenditure on cash basis

1.5 Income Tax

The Income of the Institute is exempted from Income Tax.

1.6 Fixed Assets

A. Fixed Assets are stated at cost of acquisition or construction inclusive of freight, duties and incidental expenses.

B. Fixed Assets created out of UNDP grant have also been taken in books of accounts.

1.7 Depreciation

A. Depreciation has been provided as per rate prescribed by the Income Tax Act, 1961.

B. Depreciation is not charged to Income & Expenditure account but it is transferred to capital reserve account.



KUMARAPPA NATIONAL HANDMADE PAPER INSTITUTE
RAMSINGHPURA SIKARPURA ROAD, SANGANER, JAIPUR- 302029 (INDIA)

BALANCE SHEET AS AT 31st MARCH, 2021

Amount in Rs.

PARTICULARS	Schedule	2020-21	2019-20
LIABILITIES			
CAPITAL RESERVE	A	2,326,054	2,756,315
GRANT UNSPENT PLAN FUND	B	22,119,450	20,194,862
GRANT UNSPENT MISC PROJECTS	C	10,560,744	8,162,828
CURRENT LIABILITIES	D	493,673	395,943
MEMBERSHIP FEES		74,000	74,000
Total (Rs.)		35,573,921	31,583,948
ASSETS			
FIXED ASSETS	E	4,368,440	2,936,769
GRANT NON PLAN FUND RECEIVABLE	F	14,166,678	15,617,789
CURRENT ASSETS	G	17,038,804	13,029,390
Total (Rs.)		35,573,921	31,583,948

Significant Accounting Policies and Notes to Accounts

As per our report of even date attached

For S Om & Co.
Chartered Accountants
FRN: 024633C

Sumit Garg
Proprietor
M. No: 427746

For KUMARAPPA NATIONAL HANDMADE PAPER
INSTITUTE

Director

Date: 09-12-2021
Place: Jaipur

KUMARAPPA NATIONAL HANDMADE PAPER INSTITUTE
RAMSINGHPURA SIKARPURA ROAD, SANGANER, JAIPUR- 302029 (INDIA)

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2021

Amount in Rs.

<u>INCOME</u>	<u>Schedule</u>	<u>Rs.</u>	<u>2020-21</u>	<u>Rs.</u>	<u>2019-20</u>
INCOME FROM OPERATIONS	H	8,381,206		7,620,545	
INCREASE/(DECREASE) IN INVENTORY		(1,717,784)	6,663,423	1,335,827	8,956,372
SAVING BANK INTEREST			427,213		-
OTHER INCOME			134,620		-
TOTAL			7,225,256		8,956,372
<u>EXPENDITURE</u>					
OPERATING EXPENSES	I	2,628,505		6,776,181	
ADMINISTRATIVE EXPENSES	J	2,405,840		2,431,930	
REPAIR AND MAINTENANCE	K	2,780,792	7,815,137	1,363,958	10,572,069
TOTAL			7,815,137		10,572,069
Excess/(Deficit) of Income over expenditure carried down			(589,882)		(1,615,697)

As per our report of even date attached

For S Om & Co.

Chartered Accountants

FRN: 024633C

Sumit Garg

Proprietor

M. No: 427746

Date: 09-12-2021

Place: Jaipur

For KUMARAPPA NATIONAL HANDMADE PAPER INSTITUTE

Director

KUMARAPPA NATIONAL HANDMADE PAPER INSTITUTE
RAMSINGHPURA SIKARPURA ROAD, SANGANER, JAIPUR- 302029 (INDIA)

Schedules for year ending 31st March 2021

	Current Year 2020-21		Previous Year 2019-20	
	Rs.	Rs.	Rs.	Rs.
SCHEDULE A - CAPITAL RESERVE				
Opening Balance	2,756,315		3,124,701	
Add: Fund Received for Fixed Assets				
Less: Deletion of Fixed Assets				
Less: Depreciation Received	430261.18		368,386	
Closing balance		2,326,054		2,756,315
TOTAL (A)		2,326,054		2,756,315

	Current Year 2020-21		Previous Year 2019-20	
	Rs.	Rs.	Rs.	Rs.
SCHEDULE B - GRANT UNSPENT PLAN FUND				
Opening Balance for plan expenditure	20,194,862		13,310,560	
Add: Grant Received Plan KVIC Mumbai	8,000,000		8,500,000	
Less: Unspent Grant Transfer to KVIC Mumbai	5,485,530			
Less: Excess of Expenditure over Income	589,882		1,615,697	
Closing Balance		22,119,450		20,194,862

	Current Year 2020-21		Previous Year 2019-20	
	Rs.	Rs.	Rs.	Rs.
SCHEDULE C - GRANT UNSPENT MISC PROJECTS				
KVIC Project ASPIRE GOI	4,795,408			
RISC Project Own Contribution	121,771		121,771	
Market Research Project	60,902		60,902	
S & T KVIC R & D Project Fly Ash	937,627		937,627	
DST Project SSD/TISN/027/2011(G)	2,552,722		2,552,722	
Eco Friendly HMP Board from Bamboo	636,679		1,218,663	
S & T Project for Evaluation of Pigmented Microbes HMP	(202,641)		700,000	
S & T Project for Dev. Of Anti Bacterial Natural Dye Cow Dung	83,232		700,000	
S & T Project on Khadi Praktitik Paint from Cow Dung	(65,434)		(65,434)	
Decolourisation of Mixed Colour	854,780		945,606	
Uniform External Sizing Coating of HMP	475,543		680,816	
S & T Grant (Development of Wet Tissues)	260,155		260,155	
Swacch Bharat Abhiyan	50,000		50,000	
		10,560,744		8,162,828
Total		10,560,744		8,162,828

SCHEDULE D - CURRENT LIABILITIES		2020-21		2019-20
AP Forest Department Training Advance	7,925		7,925	
National Research Lab of Culture Lucknow	505		505	
Center for Heritage Studies Cochin	760		760	
Security Balaji Sunshine Security Services	16,000		16,000	
Sai Security PTG Pvt Ltd	229		229	
Star Paper Mills	153		153	
Saharanpur Testing Instrument Ltd.	76		76	
Umang Board Pvt. Ltd.	500		500	
Diwakar's Labour Contractor	10,000		10,000	
Synergy Associates	34,840		34,840	
J & K Programme	1,212		1,212	
Gurpal Engg Works	30,791		30,791	
Metro Trading Corp	11,905		11,905	
Voltas Limited	17,516		17,516	
Earnest Money	182,803		107,355	
Eishita Enterprises	2,000		2,000	
Quality Engineering	10,091		10,091	
ICAR Project	36,000		36,000	
Vardhman Electronics	2,000		2,000	
TDS on GST	-		83,184	
TDS Payable	34,406			
S O KVIC Jaipur (New)	11,901		11,901	

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KUMARAPPA NATIONAL HANDMADE PAPER INSTITUTE
RAMSINGHPURA SIKARPURA ROAD, SANGANER, JAIPUR- 302029 (INDIA)

Schedules for year ending 31st March 2021

	Current Year 2020-21		Previous Year 2019-20	
Sheet Kamal Industries	11,000		11,000	
KVIC Barmer	1	-	-	
Shubh Sales & Services	71,059	-	-	
		493,673		395,943
Total		493,673		395,943
GRAND Total		493,673		395,943

SCHEDULE F - GRANT NON PLAN FUND RECEIVABLE	2020-21	2019-20
Opening Balance Non Plan Fund Expenses	15,617,789	(10,909,531)
Received during the year	9,968,909	6,532,056
TOTAL	5,648,880	(4,377,475)
Less: Non Plan Expenditure		
Salary	7,987,391	10,199,270
Employer CPF Contribution	249,132	307,592
T.A. Expenses Officers	105,018	299,429
T.A. Expenses Staff	176,257	434,023
TOTAL	8,517,798	11,240,314
Closing Balance Grant Non Plan to be Receivable	14,166,678	(15,617,789)

SCHEDULE G - CURRENT ASSETS		2020-21	2019-20
STOCKS			
Raw Materials	52,365	82,828	
Unfinished Goods	15,000	22,000	
Finished Goods	260,938	2,270,743	
Closing Stock of Prakritik Paints and Chemicals	329,485		
Total (A)		657,788	2,375,571
SUNDRY DEBTORS			
S.O. KVIC Jaipur (Old)	2,329	2,329	
RISC SO KVIC Jaipur	83,200	83,200	
CPPRI Saharanpur	17,468	17,468	
EPCO Bhopal	21,630	21,630	
Festival Advance	900	900	
Hi Tech Natural Products India Ltd Saharanpur	4,040	4,040	
Advance To Kumawat Air Conditioners & Fire Fighting	25,000	25,000	
Qsys E- Solutions	2,230	2,230	
Khadi Gramodyog Bhawan New Delhi	(139)	14,237	
Mushtaf Salim Oman	29,000	29,000	
Khadi Emporium Mi Road Jaipur	87,018	1,920	
Alok B Farm Allahbad	(8,430)	(8,430)	
Lal Bahadur Shastri Shiksha Samiti Hanumangarh	51,898	51,898	
Annai Women Movement Tamil Nadu	4,956	4,956	
Sh Chander Prakash	51,500	51,500	
KVIC Mumbai	(657)	(657)	
KVIC Cochin	5,997	5,997	
KVIC Varanasi	26,417	26,417	
Interior Solution Delhi	5,835	-	
KVIC Bhopal	123,666	134,439	
KVIC Goa	15,591	15,591	
KVIC New Delhi	1,690,571	1,960,882	
Central Sliver Plant (CSP)	7,280	-	
KVIC Chandigarh	49,567	-	
Balajee Bee Agro Farm	14,160	-	
Khadi Bhandar New Delhi	418,415	-	
Other Receivable from Sales	705,525	-	
Total (B)		3,434,967	2,444,547
LOANS & ADVANCES AND DEPOSITS			
TDS Recivables			684



KUMARAPPA NATIONAL HANDMADE PAPER INSTITUTE
RAMSINGHPURA SIKARPURA ROAD, SANGANER, JAIPUR- 302029 (INDIA)

Schedules for year ending 31st March 2021

	Current Year 2020-21		Previous Year 2019-20	
Electricity Security	42,259		42,259	
LPG Security	2,700		2,700	
Telephone Security	26,586		26,586	
TDS On GST Receivable	33,874		63,921	
GST Receivable	287,605		1,168,765	
TDS Refundable	180,401		117,077	
Total C		573,425		1,421,992
CASH AND BANK BALANCES				
SBI Sanagner	12,268,478		6,748,298	
Cash In Hand	104,146		38,982	
Total (D)		12,372,624		6,787,280
Grand Total (A+B+C+D)		17,038,804		13,029,390

SCHEDULE H - INCOME FROM OPERATIONS	2020-21	2020-21	2019-20	2019-20
	Rs.	Rs.	Rs.	Rs.
Technical and Consultancy Services	484,741		250,670	
Traning Programme	3,604,362		650,970	
Misc. Income	-		292,631	
Annual Membership Fee	-		1,500	
Lab Testing Fee	54,850		17,090	
GST Input Income	-		1,499,250	
Sale of Products (Handmade Paper Products)	2,073,251		4,715,834	
Sale of Products (Carry Bags made from Mixed Waste Polythene)	1,118,210			
Sale From Khadi Praktik Paint from cow Dung	974,076		192,600	
Packing and Forwarding Income	71,716		-	
		8,381,206		7,620,545
Total		8,381,206		7,620,545

SCHEDULE I - OPERATING EXPENSES	2020-21	2020-21	2019-20	2019-20
	Rs.	Rs.	Rs.	Rs.
Packing and Forwarding Expenses	56,655		47,777	
Traning Programme Expenses (Cow Dung Paint)	260,470		394,816	
Meeting and Workshop Expenses	306,841		223,222	
Diesel and Firewood	-		7,100	
Purchase of Products/ Services (Related to Handmade Paper Products, Carry Bags made from Mixed Waste Polythene)	375,045		6,103,266	
Exhibition Expenses	-		-	
Lab Testing Expenses	108,019		-	
Project PMEGP (ABFPI)	15,009		-	
Khadi Praktik Paint Cow Dung Expenses	1,006,466		-	
		2,628,505		6,776,181
Total		2,628,505		6,776,181

SCHEDULE J - ADMINISTRATIVE EXPENSES PLAN	2020-21	2020-21	2019-20	2019-20
	Rs.	Rs.	Rs.	Rs.
Staff Welfare (Leveries)	-		50,648	
Printing & Stationery	39,589		21,432	
Telephone Expenses	59,507		33,779	
Water and Electricity	482,574		401,673	
NEWS Paper & Periodicals	3,250		2,980	
Postage	11,694		11,622	
Insurance Expenses	23,259		22,084	
Internet Expenses	1,569		2,000	
Audit and Legal Fees	97,624		141,827	
Paperex	-		136,746	
Advertisement and Publicity	86,023		19,590	
Misc Expenditure	172,242		104,459	
Conveyance Charges	26,484		54,926	



KUMARAPPA NATIONAL HANDMADE PAPER INSTITUTE
RAMSINGHPURA SIKARPURA ROAD, SANGANER, JAIPUR- 302029 (INDIA)

Schedules for year ending 31st March 2021

	Current Year 2020-21		Previous Year 2019-20	
Petrol Expenses	92,160		85,870	
Workshop Expenses	-		5,310	
VAT Written Off	-		2,000	
Wages	1,309,865	2,405,840	1,334,984	2,431,930
Total		2,405,840		2,431,930

SCHEDULE K - REPAIR & MAINTENANCE EXPENSES	2020-21	2020-21	2019-20	2019-20
	Rs.	Rs.	Rs.	Rs.
OFFICE EQUIPMENT MAINTENANCE	116,795		693,246	
MACHINE REPAIR AND REPLACEMENT	146,314		169,677	
GARDENING AND PLANTATION	59,833		-	
BUILDING MAINTENANCE	2,281,783		501,035	
POWER FACTOR/ REPAIR, REPLACEMENT & ELECTRICAL EQUIPMENT	176,067		-	
		2,780,792		1,363,958
Total		2,780,792		1,363,958

IRG FOR THE YEAR 2020-2021

IRG From Domestic Market (Handmade Paper Products, Carry Bags made from Mixed Waste Polythene)*	2316416
IRG From Sale of Khadi Prakritik Paint made from cow dung	297095
IRG From Misc Income	134620
IRG From Training of Khadi Prakritik Paint from cow dung	3604362
IRG From Consultancy	484741
IRG From Lab Testing Fee	54850
TOTAL	6892084

* IRG from Domestic Market (Handmade Paper Products, Carry Bags made from Mixed Waste Polythene) is very high due to opeining stock value because accounting is based on cash basis

Sale Of Domestic Market (Handmade Paper Products, Carry Bags made from Mixed Waste Polythene)	3,191,461
Less: Change in Finished Stock	1,717,784
Less: Domestic Market Purchase Etc Expenses	875,045
Net Income for Current Year	598,633



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KUMARAPPA NATIONAL HANDMADE PAPER INSTITUTE
RAMSINGHPURA SIKARPURA ROAD, SANGANER, JAIPUR- 302029 (INDIA)

FIXED ASSETS CHART AS ON 31ST MARCH 2021

SCHEDULE-E

FIXED ASSETS	OPENING WDV AS ON 01-04-2020	ADDITIONS	DEDUCTIO NS	TOTAL	DEPRECIATION RATE	DEPRECIATION	CLOSING WDV AS ON 31-03-2021
Furniture and Fixture	141884.38	0.00	0.00	141884.38	10.00	14188.44	127695.94
Vehicles	39062.59	0.00	0.00	39062.59	15.00	5859.39	33203.20
Office Building	1053388.20	0.00	0.00	1053388.20	10.00	105338.82	948049.38
Office Equipment	195379.34	707326.00	0.00	902705.34	10.00	54904.23	847801.11
Computers	6897.67	0.00	0.00	6897.67	40.00	2759.07	4138.60
Fire Fighting Equipment	24545.64	0.00	0.00	24545.64	15.00	3681.85	20863.79
Fire Fighting Refill	88004.00	0.00	0.00	88004.00	0.00	0.00	88004.00
Lab Equipment	283828.91	1154606.00	0.00	1438434.91	15.00	129169.79	1309265.12
Machine Equipment	77356.22	0.00	0.00	77356.22	15.00	11603.43	65752.79
Tools and Equipment	185.21	0.00	0.00	185.21	15.00	27.78	157.43
Training Equipment	11726.98	0.00	0.00	11726.98	15.00	1759.05	9967.93
Building Girls Hostel	316883.63	0.00	0.00	316883.63	10.00	31688.36	285195.27
Land Girls Hostel	281978.00	0.00	0.00	281978.00	0.00	0.00	281978.00
Patent	69337.50	0.00	0.00	69337.50	25.00	17334.38	52003.13
UNDP Assets	27760.34	0.00	0.00	27760.34	15.00	4164.05	23596.29
RISC Machine and Equipment	40627.75	0.00	0.00	40627.75	15.00	6094.16	34533.59
Machine & Equipment	24928.44	0.00	0.00	24928.44	15.00	3739.27	21189.17
R & D Project S & T KVIC FLY ASH	58614.39	0.00	0.00	58614.39	15.00	8792.16	49822.23
R & D Project S & T KVIC New 2009-	194379.75	0.00	0.00	194379.75	15.00	29156.96	165222.79
TOTAL	2936768.94	1861932.00	0.00	4798700.94		430261.18	4368439.76



7/2/21