



कामधे दुःखप्रणामम्।
प्राणिनाम् आतिथ्यं शनम्॥

निदेशक

DY. DIRECTOR I/C (RID)



सत्यमेव जयते

खादी और ग्रामोद्योग आयोग

**KHADI AND VILLAGE
INDUSTRIES COMMISSION**

सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय, भारत सरकार

Ministry of Micro, Small & Medium Enterprises, Govt. of India,

सुधार कार्यान्वयन प्रभाग

REFORM IMPLEMENTATION DIVISION

NO. DRID/KRDP/3rd Tranche Conditions/2017-2018/74

Date : 02.06.2017

To
The Dy. Secretary
Govt. of India, Ministry of MSME
Udyog Bhavan, New Delhi – 110 001

SUB: -Re-submission of documents pertaining to testing
Infrastructure at CSP - reg.

REF:- This office letter of even no. dated 03.12.2016/18.01.2017.

Sir,

Kindly refer the above referred letter, wherein Directorate of RID has forwarded the report on Testing Infrastructure at CSP. Out of 18 Tranche conditions, one condition is that KVIC shall have created the basic testing infrastructure for CSP. The said tranche condition was completed and the relevant report is once again forwarded to you for onward submission of ADB.

Thanking you,

Yours faithfully,

Dy. Director I/C (RID)

Encl:- As above.

Copy for kind information to:-

(1) Shri Ashok Srivastava, Senior Project Officer (URBAN), Asian Development Bank, India Resident Mission, San Martin Marg, Chanakyapuri, New Delhi – 110 021



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o/c

Khadi Reform and Development Programme

Report on Testing Infrastructure at CSP

November 2016



Khadi and Village Industry Commission

Ministry of Micro Small and Medium Enterprises,
Government of India



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1. Background

In order to fully realize the significant growth potential of Khadi and Village Industries (KVI) sector, the Khadi Reform and Development Program (KRDP) is being implemented by Government of India and KVIC since 2010, with assistance from Asian Development Bank (ADB).

Among the several interventions under the programme, branding and marketing of Khadi is a key intervention. This comprises of establishing identity of Khadi and repositioning it in the market. For this purpose, Khadi Mark has been institutionalised in 2013¹ to guarantee the genuineness of Khadi i.e. hand spun and hand woven, containing natural fibres (cotton/wool/silk). This was followed by issue of Khadi Mark Protocol, 2013, which describes the various operational procedures involved in implementation and administration of Khadi Mark

Implementation of Khadi Mark requires KVIC to issue Khadi Mark Certificate to entities (Khadi Institutions, individuals, private entities) desirous to produce and / or sell Khadi. In case of certified Khadi Institutions (KI), the certificate may be issued directly after receipt of application for Khadi Mark. However, in case of persons and private entities, an Accredited Agency is required to verify the production set up and have the sample of Khadi tested for its genuineness.

In this context, infrastructure for testing of Khadi is required, wherein the Accredited Agency can send the sample of Khadi for testing. However, since production of Khadi is a specialised activity, the textile labs are not equipped to test the samples. Apart from this, creating of basic testing infrastructure for Khadi Mark is also a condition to be fulfilled under second tranche. Hence, KVIC is required to create such testing infrastructure.

For this purpose, KVIC has undertaken requisite steps for availability of requisite infrastructure leading to fulfilment of the condition. The report elaborates on the process for creation of the infrastructure, its use and rendering test report.

2. Rationale and objectives for setting up basic testing infrastructure

KVIC has set up testing infrastructure at the Central Sliver Plants (CSP) at Raebareli and Chitradurga. The two CSPs already have procured equipment for testing Khadi. Creation of such testing facilities is an essential component for ensuring production and sale of genuine Khadi by Khadi institutions, exporters, and all agencies who have been authorized to use Khadi mark as KVIC needs to have its exclusive facility for testing to administer effective and objective implementation of the Khadi Mark process.

CSP at Raebareli will cater to requirement for testing in North, North-East and East, while the CSP at Chitradurga can cater to requirements in Central, West and South regions. The basic testing infrastructure is to test the finished product and ensure that the fabric on which the khadi mark is affixed is genuine Khadi i.e. Hand Spun, Hand Woven and contains Natural Fiber only. The key objectives to establishing testing infrastructure within the CSPs include:

2.1 ¹ As the promoter and guardian of Khadi Mark, one of KVICs responsibilities is to verify and enforce the genuineness of products being sold as Khadi. In this regard, the Khadi Mark Regulations 2013, published in the Gazette of India dated July 22, 2013, No. 3212 GI/2013, empowers KVIC to provide Khadi Mark by laying down standards of assurance and by authorizing the use of Khadi Mark

- a. **To conduct discreet spot audits:** for the purpose of khadi mark compliance, in addition to the tests carried out by accredited agencies, KVIC would carry out random and discreet audits of the institutions that have been granted the usage of khadi tags and labels. KVIC may conduct spot audits on 10% of institutions that are granted to use khadi mark tags and labels.
- b. **To monitor the work of accredited agencies:** KVIC at its own discretion can conduct random audits/inspections through its State and Divisional officer to check the performance of the accredited agencies from the reference sample collected by the accredited agencies during the verification process. On a random basis, these will be tested in the CSP lab and the results will be compared with the report obtained by the accredited agency.
- c. **To adopt a comprehensive dispute redressal mechanism:** For disputes (if any) between Khadi Institutions and accredited agency and disputes between two Institutions dealing in Khadi regarding the quality and genuineness of khadi, the disputed samples can be tested in the CSP lab and the results obtained can be used to settle any disputes.
- d. **To solve consumer grievances related to genuineness of khadi:** For disputes (if any) from consumers regarding the quality and genuineness of khadi, the disputed samples can be tested in the CSP lab and the results obtained can be used to settle any disputes.
- e. To achieve a long term vision of transforming the existing laboratories to 'State of the Art' laboratories for all kinds of testing related to khadi.

3. Appointment of accredited agencies

As per the Khadi Mark Regulations 2013, KVIC has already appointed Northern India Textile Research Association (NITRA) an Accredited Agency for verification and testing of Khadi and Khadi products as per KVIC's letter Ref. No-RID/KRDP/KM Regulations/2015/209 dated 15/18th January 2016.

The roles and responsibilities of accredited agency comprise of the following:

- Conduct on site physical verification at the premises of the person's production center for ensuring hand spinning and hand weaving process
- Collect physical samples of Khadi and Khadi products (Number of samples, size and sampling technique to be prescribed by KVIC from time to time) for testing
- Conduct or arrange testing of samples of Khadi and Khadi products produced or sold by the persons, through laboratories registered by the Central or State Governments, to ensure genuineness of Khadi
- Ensure collection of information as per a uniform 'Site Verification Report' format for each applicant
- Submit a detailed Site Verification Report along with the Khadi and Khadi product samples collected within 15 working days from the receipt of the application to the respective Zonal / State / Divisional officer of KVIC
- State the nature of discrepancy, in case of any discrepancy found

4. Creation of Testing Infrastructure at CSPs

A plan for creation of testing infrastructure had been prepared in 2012 by KVIC. The specific equipment's required for testing of Khadi have been used for assessing the report. The existing infrastructure is adequate for undertaking the testing for Khadi and Khadi Products.

The assessment conducted revealed that the testing infrastructure at CSP's is adequate to conduct the requisite tests as per the requirement. The details of exiting testing infrastructure from the identified CSPs were compiled at **Annexure I**.

The testing infrastructure was set up in CSPs Raebareli and in consultation with NITRA and Synthetic & Art Silk Mills' Research Association (SASMIRA).

The infrastructure available in these two CSPs is sufficient as per the BIS requirements and as per the 'Plan for testing infrastructure' that was prepared. Majority of these tools and equipments have been made available to the CSPs at Chitradurga and Raebareli thus enabling fulfilment of one of the 2nd tranche conditions of the Khadi Mark.

5. Process of testing Khadi / Khadi Products

The accredited agencies while collecting the samples for verification of genuineness of Khadi and Khadi products shall follow the procedure as specified in the Khadi Mark protocol. The agency should not consider and take any sample provided by the applicant. Accredited agency has to take two samples of one product from central godown (product having highest production) and two samples of one product from the best performing sales outlet (product having highest sale). In case the applicant fails to comply with the site requirements, testing may not be done. The agency will inform State /Divisional /Zonal Office, KVIC and testing will be done only after Zonal Office advises agency to do so in such case.

The table below provides a summary of the approximate quantity of cases per year across the four main categories:

Samples collected	Approx. quantity of cases per year	Assumptions
Spot audits	200	10 per cent of total institutions each year
Monitoring of accredited agencies	40	10 per cent of total institutions each year that are catered by each accredited agency for 5 years
Disputes between institutions	100	5 percent of institutions
Disputes between institution and accredited agency	40	10 percent of cases for 5 years
Consumer grievance	36	Average of 3 cases per month
Total	416	

At present, the khadi mark protocol confines to identification of 100% natural fibre (cotton, wool & silk) and direction of twist. In the long run, the other quality parameters will be added to meet consumer requirements as well as obtain NABL accreditation (ISO 17025) for the testing laboratories proposed to be established may have complete testing infrastructure.

Presently there are 2028 khadi institutions, which constitutes all working Khadi Institutions have obtained Khadi Mark Certificate out of the total 2313 Khadi Institutions. With such strength of institutions, total number of samples or cases will be approximately 416 samples per year. Any dispute between institutions and accredited agencies & consumer grievances, a permanent arrangement of testing centres is necessary. The report format at **Annexure –II** needs to be followed by the CSPs.

Most importantly, Management of khadi mark will be a continuous process and will continue even after completion of the KRDP intervention.

6. Testing genuineness of Khadi

Testing of genuine Khadi shall be:

- a. Identification of twist direction on both, wrap and weft and twist per inch or twist per meter as per BIS Number IS-832-1985 (RA 1999)
- b. Identification of presence of 100% ($\pm 5\%$) natural fibre on cotton, wool and silk khadi fabric as per BIS number IS-667-81 (RA 2008)

Identification of twist direction on both wrap & weft and twist

Yarn twist is the measure of the spiral given to a yarn in order to hold the constituent fibers or threads together. Twist is the spiral disposition of the components of a thread which is usually the result of the relative rotation of the two ends. According to direction of twist, it is of two types:

1. S Twist: A single yarn has S twist if, when it is held in the vertical position the fibers incline to the axis of the yarn conform in the direction by slope to the central portion of the letter S
2. Z twist: Single yarns Z twist if, when it is held in the vertical position, the fibers are inclined to the axis of the yarn conform in the direction by slope to the central portion of the letter S.

Ultra Bat/S twisted yarn alone shall be used for Khadi production

Identification of Natural Fibers

Two simple and practical ways to identify cotton, wool and silk are the burn test and microscopic examination.

7. Conclusion and Way Forward

Currently, no private entities have registered for using the Khadi Mark. Once, requests for registration are received from private sector entities / persons, testing will be initiated by the Accredited Agency as per the protocol.

Detailed Plan for the creation of basic testing infrastructure

Detailed plan for the
creation of basic
testing infrastructure
for Khadi Mark at
KVIC



कामये दुरुक्तमानाम् ।
प्राणिनाम् अर्तिनाशनम् ॥

Khadi and Village Industries Commission

"Gramoday", 3, Irla Road, Vile Parle (West), Mumbai, PIN-400 056.

Maharashtra, India.

www.kvic.gov.in

1. Background:

Khadi is handcrafted textile of India. It was livery of freedom during independence struggle, now mandated as a livery of economic freedom for the rural artisans. Khadi is the pride of India and it has the distinction of being the only cloth to be used in the National Flag.

Given the size and diversity, India has significant opportunities for Khadi, by repositioning it and linking Khadi to the consumers' perception with its environment friendly, socially conscious and fair wage characteristics. In the current scenario, lack of consumer centric approach coupled with low consumer awareness has led many players taking advantage of non-genuine Khadi in the market.

Hence, with an objective to create a distinct identity of genuine Khadi, the Khadi Reform and Development Programme (KRDP) envisaged development of Khadi Mark which will guarantee the genuineness and quality of Khadi i.e. hand spun and hand woven nature, containing natural fibres (cotton/wool/silk) of Khadi cloth. As the promoter and guardian of Khadi Mark, KVIC will monitor, verify and enforce the genuineness of products being sold as Khadi.

The following are the key objectives of Khadi Mark:

- Guarantee through the Mark standards of genuine Khadi - "Hand spun, Hand Woven and Natural Fibre".
- Guarantee, through the Mark, a fair wage standard for the artisans involved in production of Khadi
- Establish an unique identity for genuine Khadi
- Improve market linkages for Khadi ensuring better earnings for artisans

The Khadi Mark is a Quality Assurance Mark and it signifies that the product to which it is affixed is made of natural fibre through the process of hand spinning and hand weaving offering minimum base earnings to Artisans. For the operationalisation of Khadi Mark, the process of onsite verification and physical testing of Khadi samples through Government recognized laboratories shall be done by the accredited agencies appointed by KVIC. The accredited agencies will carry out the process of "Compliance Inspection" for Khadi production process and Testing of Khadi, as per the guidelines and procedures prescribed by KVIC from time to time. The products, as per Khadi Mark, will be tested through Government recognized laboratories for ascertaining presence of natural fiber (cotton / silk / wool) and also process and payment verification.

Based on the report by the accredited agency, KVIC will decide on whether or not to grant the usage of Khadi Mark tags and labels. Regular Audit shall be conducted by accredited agencies as a part of issuance and renewal of Khadi Mark.

2. Rationale for setting up basic testing infrastructure in KVIC.

Presently KVIC has six central sliver plants (CSP) located across India (See Annexure 1). The CSPs are having laboratories which cater to the testing of khadi.

The proposed basic testing infrastructure is to test the finished product and ensure that the fabric on which khadi mark is affixed is genuine Khadi - "Hand spun, Hand Woven and Natural Fibre". Testing genuineness of Khadi shall be:

- a. Identification of twist direction on both warp & weft and twist per inch or twist per meter as per BIS Number IS-832-1985 (RA 1999)
- b. Identification of presence of 100% ($\pm 5\%$) natural fibre on Cotton, Wool and Silk khadi fabric as per BIS Number IS-667-81 (RA 2008)

Identification of twist direction on both warp & weft and twist

Yarn Twist is the measure of the spiral given to a yarn in order to hold the constituent fibres or threads together. Twist is the spiral disposition of the components of a thread which is usually the result of the relative rotation of the two ends. According to direction of twist, it is of two types: -

1. S- Twist
2. Z- Twist.

S- Twist: A single yarn has S twist if, when it is held in the vertical position. The fibres inclined to the axis of the yarn conform in the direction by slope to the central portion of the letter "S".

Insert figure

Z-Twist: A single yarn Z Twist if, when it is held in the vertical position, the fibres inclined to the axis of the yarn conform in the direction of slope to the central portion of the letter "Z".

The amount of twist in a thread means the number of turns of twist per unit length in the twisted condition. If "n" be the number of turns of twist in "l" (small l) inch of yarn, then the amount of twist will be $T = n/l$.

Insert figure

Ultra Bat / 'S' twisted yarn alone shall be used for Khadi production.

The Identification of Natural Fibres

Identification of fibres is an important step in testing the genuineness of Khadi as only natural fibres namely Cotton, Wool, Silk and their combination are used in production of khadi. The two simple and practical ways to identify cotton, wool and silk are the burn test and microscopic examination.

Non Technical Tests	Technical Tests
Feeling test Burning tests	Microscopic test Chemical test

It is proposed that KVIC will provide suitable land and building within the premises of CSPs to set up Khadi testing laboratory. The scope of the project will include procurement of equipment, financing, and providing technical and specialized staff to operate and maintain the equipments at the testing centre for optimal usage and with the additional construction and / or renovation of existing laboratory / facility to house the testing centre, if required. Setting up of basic testing infrastructure would benefit all stakeholders including existing Khadi institutions, exporters, entrepreneurs, micro small and medium enterprises dealing in Khadi, which will help to set standards and quality assurance of Khadi.

Creation of such testing facilities is an essential component for ensuring production and sale of genuine Khadi by khadi institutions, exporters, consumers and all the people who have been authorized to use khadi mark as KVIC needs to have its exclusive facility for testing to administer overall control on the Khadi Mark process.

At present the Khadi Mark protocol confines to identification of 100% natural fibre (Cotton, Wool, Silk) and Twist direction. In the long run, the other quality parameters will be added to meet consumer requirements. In order to equip the facilities being created to cater the future requirements as well as obtain NABL accreditation (ISO-17025) the testing laboratory proposed to be established may have complete testing infrastructure. Such requirements have been envisaged looking into the future needs of the sector.

In the policy Matrix under KRDP, one of the major activities under 2nd Tranche Condition is to make a detailed plan for creation of basic testing infrastructure and arrangements for managing Khadi Mark by KVIC State/Divisional offices.

The key objectives of setting up basic testing infrastructure for the Khadi Mark are as follows:

- 1) To conduct discreet Spot Audits.
- 2) To monitor the work of Accredited agencies
- 3) To adopt a comprehensive Dispute Redressal mechanism
- 4) To solve Consumer Grievances related to genuineness of Khadi
- 5) To achieve a long term vision of transforming the existing laboratories to a state of the art laboratories for all kinds of testing related to Khadi

Objective 1: To conduct discreet spot Audit of Institutions

For the purpose of Khadi Mark compliance accredited agencies, engaged by KVIC would provide process verification and testing genuineness of Khadi Textiles (Cotton, Wool and Silk) samples through Government approved testing laboratories. The scope of work for accredited agencies covers the following:

- a) **Compliance Inspection for Khadi production process:** Verification is to be done through physical inspection at Khadi Producing Institutions

- b) **Testing of Khadi samples:** Testing of genuineness of Khadi, by sample testing through Government approved testing laboratories and laboratories approved by KVIC.

It is mandatory for the accredited agency to inspect the Khadi production process through physical inspection at Khadi Institutions and its sales outlets located at urban and rural areas.

The accredited agency has to arrange for qualified and trained field staff for the physical verification and has to ensure obtaining of all required information as detailed in the format for each of the unit physically verified. During the site inspection, the accredited agency has to collect Khadi samples as prescribed by KVIC from time to time.

In cases where the physical inspection is found compliant to KVIC norms, it shall be the responsibility of the "Accredited Agency" to conduct testing of Khadi samples through Government approved and KVIC approved testing laboratories. Based on the testing report the accredited agency would prepare and furnish a final recommendation to the KVIC zonal office.

In addition to the tasks carried out by the accredited agencies as mentioned above there would be Spot Audits to check compliance of Khadi Mark. Apart from the routine inspection conducted by the accredited agencies, KVIC will conduct random discreet audits of the institutions granted to use the Khadi Mark labels and tags; independent of the inspection conducted by the accredited agencies. The objective of carrying out the discreet spot audits is to monitor the institutions that are granted the usage of Khadi Mark tags and labels. The usage of Khadi Mark to a particular institution is granted after KVIC is fully satisfied that the institution is wholly compliant with the Khadi Certification Regulations 2011, based on the report by the accredited agency. However since the duration of usage of Khadi mark granted is five years which is a long duration, it is in the interest of KVIC that khadi institutions should continue to produce the same quality throughout the five year period. The spot audits will ensure that the institution complies with the genuineness of khadi throughout the period of the grant of usage of khadi mark tags and labels. These spot audits would be conducted discreetly so as to avoid the risk of manipulation if otherwise the timing of the spot audits is known to the institutions. The number of such spot audits to be conducted would be decided by KVIC. It is suggested that KVIC may conduct spot audits on 10 per cent of institutions that are granted to use khadi mark tags and labels. An indicative list of circumstances that may require conducting of discreet spot audit is given below:

- When the institution has low sales turnover but it demands more khadi mark tags/sew in labels
- When the institution has high sales turnover but there is a demand of less khadi mark tags/sew in labels
- When for a long duration there is no demand for khadi mark tags from the institution that has been granted usage of khadi mark
- When there is a consumer grievance against any of the product that bears khadi mark tag / sew in labels

During the spot audits khadi samples will be collected and those would be sent to the nearest CSP laboratory where the institution is situated, for testing. The results of the test conducted

by the CSP laboratory will be final and binding. In case the khadi samples are found to be non-compliant to the KVIC standards, it will be dealt with the procedures mentioned in Chapter VI of the Khadi Certification Regulations, 2011.

Objective 2: Monitoring of Accredited agencies

Granting usage of Khadi Mark tags and labels will largely depend upon the reports submitted by the accredited agencies. Hence the accredited agencies should take utmost care in carrying out the verification process as well as rendering test reports. To ensure that the accredited agencies are carrying out the work as per the assigned terms of reference, there will be continuous monitoring of the work of accredited agencies by KVIC.

KVIC at its own discretion shall conduct random audits / inspections through its State and Divisional offices to check the performance of the accredited agencies from the reference sample collected by the accredited agencies during the verification process. On a random basis these collected reference sample will be tested in the CSP laboratory and the results of the test will be compared with the report obtained by the accredited agency regarding the institution. The results of the CSP laboratory will be considered final. In case of any discrepancy between the result of the CSP laboratory and the report of the accredited agency, KVIC will take necessary action against the accredited agency if found guilty of malpractice.

Objective 3: Dispute Redressal of Institutions

The CSP laboratories will also be helpful in redressing any dispute that arises with regard to the genuineness of khadi and khadi products. There could be two kinds of disputes that may be dealt with.

1. *Dispute arising between Khadi Institution and the accredited agency.*

Only after the accredited agency sends a report regarding the concerned institution, KVIC will decide whether or not to grant usage of Khadi Mark. In the event of KVIC deciding not to grant usage of Khadi Mark to an institution, based on the report of accredited agency and the institution challenges the report of the accredited agency, a dispute call may be logged. After the dispute is logged, KVIC will examine the reason of dispute. If the dispute is regarding test report of sample, KVIC will test the reference sample given by the accredited agency in CSP laboratory. The test report of CSP laboratory will be final and binding. The institution found deficient in fulfilling the requirement of Khadi Mark will be denied from usage of Khadi Mark tags and labels. KVIC will initiate action as mentioned in Chapter VI of the Khadi Certification Regulation 2011 against an institution which was an user of khadi mark tags and labels.

2. *Dispute arising between Institutions dealing in Khadi*

Majority of khadi products are dealt by multiple organizations from production to retailing. In case a dispute arises between two or more Institutions dealing in Khadi with respect to the genuineness of the product, the aggrieved institution may log a dispute call to KVIC against the other institution on which it has a grievance. The dispute logging institution should submit the sample of the product on which it has grievance regarding genuineness of khadi. KVIC will test the sample in the CSP laboratory and take decision, as mentioned in Chapter VI of the Khadi Certification Regulations 2011, based on the test result which will be final and binding.

Objective 4: To solve Consumer Grievances related to genuineness of Khadi

“**Khadi Mark**” is a certification mark authenticating the genuineness of Khadi. It creates a distinct identity of genuine Khadi, which would guarantee the genuineness of Khadi. Consumers accept Khadi as a genuine product only based on the khadi mark. By purchasing khadi mark labeled products, consumers get an assurance that they are indeed purchasing genuine khadi products. Hence it is necessary to safeguard khadi mark and genuineness of products sold with khadi mark tag / sew in label. If any consumer has any doubt or grievance over the genuineness of products, purchased with khadi mark tag / sew in label on it, the same can be tested and verified at any of the CSP laboratories.

Complaints initiated by the consumer have to be formally reported within 15 days to the institution from where Khadi and Khadi products have been purchased. The Institution is required to record and provide to the consumer a receipt/acknowledgement of the complaint. The Institution is required to address the grievance within a timeline not more than 7 working days from the date of lodging of complaint. In the event of unsatisfactory outcome, the consumer may formally report the complaint to the State / Divisional Director of the Commission only after he/she has exhausted all its measures at the Institution. The State / Division Director office is required to address the complaint and provide a satisfactory solution within a timeline not more than 15 (fifteen) working days from the date of lodging of complaint. In the event of unsatisfactory outcome consumer may forward the copy of the complaint to the Tier 1 Grievance Redressal Forum. The Tier 1 Grievance Redressal Forum is required to address the complaint within a timeline not more than 30 working days. In the event of unsatisfactory outcome, consumer may forward the copy of the complaint to the Tier 2 Grievance Redressal Forum.

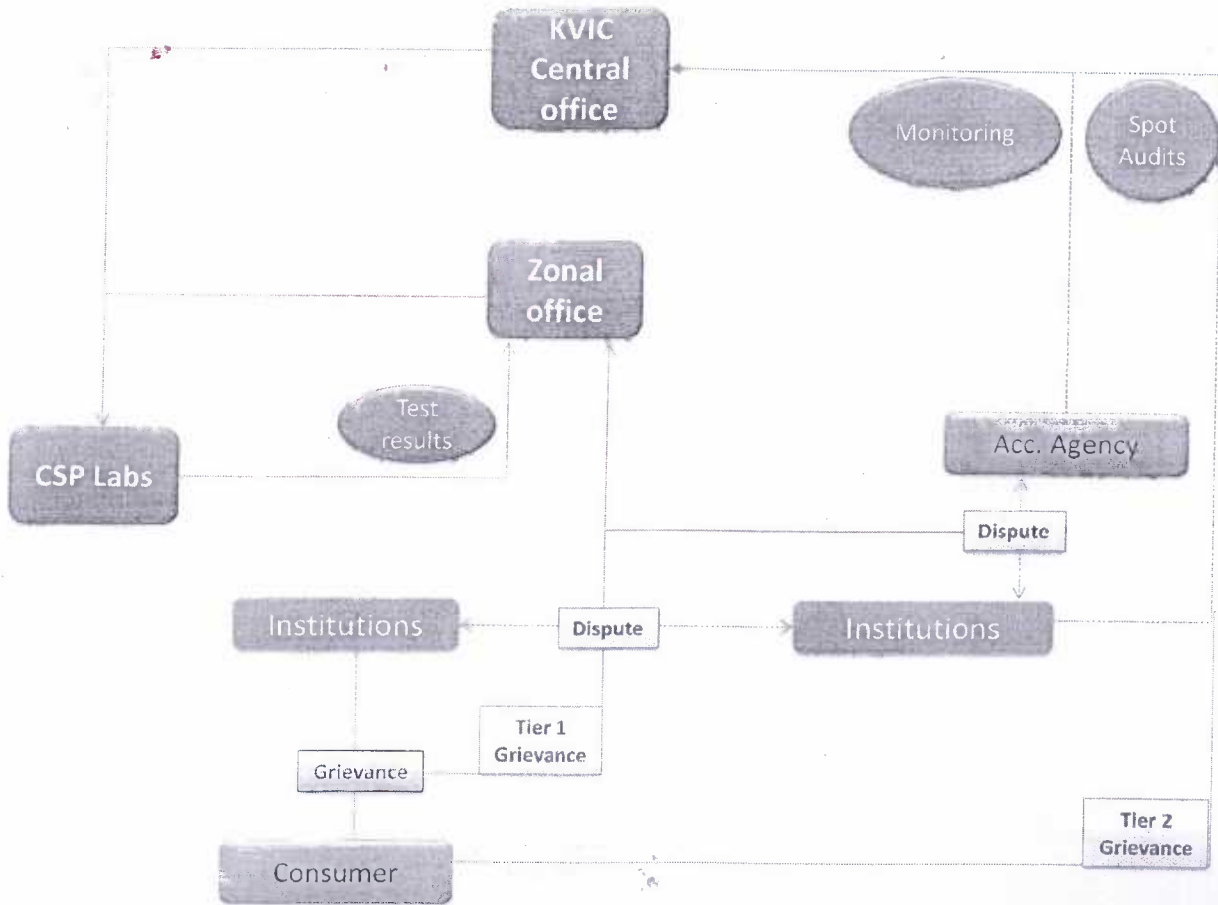
The Tier 2 Grievance Redressal Forum is required to address the complaint within a timeline not more than 30 working days.

viii) in the event of unsatisfactory outcome consumer may forward the copy of the complaint to the CEO of the Commission for redressal

Zonal offices will set up consumer grievance cell where the consumer can submit an application with the sample and the receipt of the purchase of the same. The zonal office will forward the sample to the CSP laboratory will process the test result and send the report to the consumer within 1 week of the receipt of the application. This result will be handed over to the consumer within two weeks of the submission of application.

If anyone sells non khadi products as 100% Natural khadi with Khadi Mark label, if the firm is an authorized user then a show cause notice will be issued and subsequently will be dealt as per the provisions of Chapter VI of the Khadi Certification regulations 2011. If the dealing firm is not an authorized user of Khadi Mark tags / sew in labels then legal proceeding could be initiated against it. The firm or company will be notified in leading newspapers about the misuse.

3. Process Chart



4. Volume of Work

From the foregoing, it is evident that CSP laboratories will have sufficient work. Presently there are 1721 khadi institutions which fall under the A+, A, B and C categories of institutions. These institutions will be granted usage of Khadi Mark tags and labels provisionally. Subsequently they will be subjected to the inspection by accredited agencies for validation in consonance with Khadi Certification Regulations, 2011 as mentioned in Chapter V.

Implementation of Khadi Mark with promotional campaign through professional marketing organization will attract all organization dealing in Khadi or desirous of dealing in Khadi will approach KVIC seeking grant of khadi mark tags and labels so as to place their product in the market as certified khadi. With the present pace of new khadi certification and inclusion of other organization it can be estimated that around 2000 entities will be covered under khadi mark in the beginning.

Total Number of Khadi Institutions	1721
Other Institutions authorized for Khadi Mark	279 (Approx)
Total Institutions dealing with Khadi Mark	2000

As mentioned in the objectives, there will be spot audits of the institutions. Regular monitoring of the accredited agencies will also take place. All the samples collected for these purposes will be tested in the CSP laboratories. The samples collected for the purposes of solving consumer grievance and dispute redressal will also be tested in the CSP laboratories.

Samples collected	Approximate quantity of cases per year	Assumptions
Spot audits of institutions	200	10 per cent of total institutions each year
Monitoring of accredited agencies	40	10 per cent of institutions that are catered by each accredited agency for 5 years
Disputes between Institution to Institution	100	5 percent of institutions.
Dispute between institution and accredited agency	40	10 percent of cases for 5 years.
Consumer grievances	36	Assuming that on an average 3 cases per month will be reported
Total	416	

Time frame:

Time required for processing each case:

Testing of Samples	1 day
Preparation of Report	1 day
Total	2 days

Under the circumstances elaborated above, two CSPs may be equipped with the testing infrastructure. Initially the CSPs with the proposed human resource will be able to arrange testing of more than 200 samples per year. In the event of further increase in number of samples these laboratories will be strengthened to shoulder the additional volume of work.

Location of labs:

Considering the volume of work it has been proposed that two CSPs will be equipped with testing infrastructure, one for north and the other for south. The laboratory in the north will cater to institutions working in Central, North, East and North-Eastern Zone. The laboratory in the south will cater to institutions working in South and West Zone.

The laboratory may be set up at CSP Rae Bareilly and CSP Chitradurga because of the following reasons:

- Proximity for the institutions
- Availability of primary testing infrastructure already engaged in testing of Khadi
- Availability of space to set up the proposed laboratory within the premises

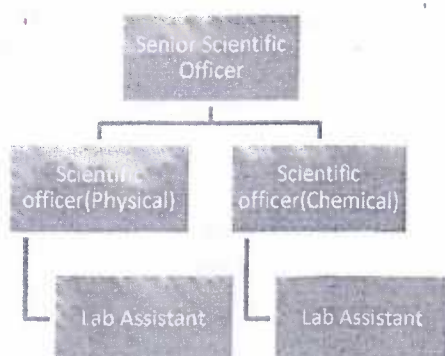
5. Budget for building and up gradation of testing centers for Khadi Mark compliance

Sr. no	Budget Head	Estimate (Rs. In Lakhs) Chitraguda	Estimate (Rs. In Lakhs) Rae Barielly	Total
1	Non Recurring			
	a) Building (Renovation of existing room to a laboratory, electrical fittings etc)	2.00	2.00	4.00
	b) Furniture and fixtures	1.00	1.00	2.00
	c) Machinery & equipments including utilities (Details Available at Annexure-3)	38.25	69.90	108.15
	d) Transport and installation(5 % of 1c)	1.91	3.50	5.41
	e) NABL certification process*	2.00	2.00	4.00
2	Recurring (for three years)			
	a) Human Resources			
	i. Salaries (With an annual increment of 10 percent. Details of Salary available in chapter 6)	24.63	24.63	49.25
	ii. Conveyance and other staff contingency(20 percent of Salaries)	4.93	4.93	9.85
	b) Repair & Maintenance(5 % of 1 c will be carried out on AMC)	11.48	20.97	32.45
	c) Materials and consumables (glassware, chemicals, standard adjacent fabric, etc)	6.00	6.00	12.00
	d) Electricity, Telephone, Stationary and postal charges	7.20	7.20	14.40
	f) Miscellaneous and Contingency	1.80	1.80	3.60
3	Total	101.19	143.92	245.11

*NABL certification process is a onetime quality accreditation of the laboratory. The expenses include license fee, boarding and lodging of the expert team.

6. Human Resources

To meet the needs of basic testing infrastructure, adequate human resources need to be deployed. Every CSP laboratory will require a senior scientific officer to head the basic testing unit of the laboratory. The senior scientific officer will be assisted by two scientific officers, one for physical testing and the other for chemical testing. Each testing wing will require one laboratory assistant.



Post	Senior Scientific Officer
Consolidated Salary	Rs. 20,000 Per Month
No. of Posts	02 (One each for CSP)
Educational Qualification	Bachelors Degree in Textile Technology / Engineering or Diploma in Textile Technology / Engineering or Handloom Technology from Govt. recognized institutes.
Experience	Degree holders having minimum of 5 years of experience in testing and Diploma holders having 7 years of experience in the relevant field. The candidate must have served in textile testing laboratories
Job Description	
<ol style="list-style-type: none"> 1. Guide the team in conducting khadi sample test as per BIS/ SI standards 2. Render time accurate test report of Khadi sample attaching highest degree of reliability 3. Frame or develop and help in improved quality standards in the khadi sector 4. Conducting need based studies on quality assurance 5. Conducting need based research in developing appropriate sampling technique and / or data collection 6. Liasoning with the zonal office / zonal committee in implementation and administration of khadi mark 	

Post	Scientific officer
Consolidated Salary	Rs. 15,000 Per Month
No. of Posts	04 : (02-Physical, 02-Chemical)

Educational Qualification	Physical: Diploma in Textile Technology / Engineering or Handloom Technology from Govt. recognized institutes OR BSc in Physics from affiliated colleges of university OR Certificate Course in textiles from ITI / Government recognized institutes. Chemical: Diploma in Technology / Engineering or Handloom Technology from Govt. recognized institutes OR BSc in Chemistry from affiliated colleges of university OR Certificate Course in textiles from ITI / Government recognized institutes.
Experience	Diploma holders must have minimum of 5 years of experience in the relevant field. BSc holders must have minimum 7 years experience in the relevant field. Certificate course holders must have minimum 9 years of experience in the relevant field
Job Description:	
<ol style="list-style-type: none"> 1. Organize proper testing of khadi sample and rendering authentic report 2. Assist KVIC in developing standards 3. Proper upkeeping of lab infrastructure and equipment 4. Arrange for regular calibration confirming to BIS/SI standards 5. Assist in continuous updation of standards as per Textile Industry 6. Conduct need based training of technical functionaries of Khadi Institutions 	

Post	Lab Assistant
Consolidated Salary	Rs. 6,000.00 Per Month
No. of Posts	02
Educational Qualification	H.S.C passed.
Experience	Candidate must have minimum of 2 years of experience in office administration. Prior experience in working in lab settings will be an advantage.
Job Description:	
<ol style="list-style-type: none"> 1. Conduct day to day testing of sample accurately observing BIS/SI standards 2. Render timely test report to the beneficiaries of Khadi sample 3. Arrange interpretation of test reports as and when required 4. Hands on training for officials of Khadi Institutions on physical and chemical test of Khadi samples 5. Proper usage and upkeep of testing infrastructure 	

7. Annexures:

Annexure 1: List of Central Sliver Plants of KVIC

Presently KVIC has six Central Sliver Plants across India mentioned in the table below.

Sr. No	Name	Address	Zone
1	CSP Sehore	Ichhawar Road, Sehore, MP -466001	Central
2	CSP Chitradurga	P. B No. 81, Plot No. 9-10-11, Kelagote Industrial Area, Chitradurga, Karnataka- 577501	South
3	CSP Raebareli	Plot No. C-14, Road No.2, Industrial Area, Amawan Road, Dist. Raebareli, UP – 229001	Central
4	CSP Etah	Songra, Near Nagaria Modh, G.T Road, Etah, UP – 207001	Central
5	CSP Hajipur	Industrial Area, Hajipur, Bihar – 844101	East
6	CSP Thrissur	P.O, Kuttur, Thrissur, Kerala -680013	South

Annexure 2: Basic testing Infrastructure requirements

To carry out the basic testing requirements the following instruments, chemicals and glassware are required: (✓ means already available)

(i) Instruments

Sr. No.	Test parameter	Instrument	Approx Cost (in Lakhs)	CSP Chittra durga	CSP Rae Bareilly
3	Hank measurement for sliver/roving	Wrap Block	0.10		
4	Count Measurement	Wrap reel	0.25		
5	Lea strength	Lea strength tester	4.00		
6	Twist per inch (including direction of twist). (Warp and weft for fabric)	Electronic Twist tester – Megalakshmi / Plates	1.50	✓	
7	Length and Width	Measuring Scale	0.05		
8	Weight per square metre	IR Oven	0.30		
		Template (25 cm X 25 cm) / (10 cm X 10 cm)	0.05		
9	Ends and picks	Pick Glass	0.05		
10	Crimp of yarn in fabric	Crimp tester	0.05	✓	
11	Pilling Resistance	ICI Pill Box	1.00		
12	Type of weave/ knitting	Simple microscope	0.10	✓	
13	Fabric defect testing / analysis	Colour matching cabinet with UV lamp	0.50		
15	Identification of Fibre	Microscope, Cross Sectional plate, Gas Stove, Chemicals, Glassware etc.	1.00		

16	pH determination	pH meter – Mettler	0.50		
17	Dimensional stability after soaking in water	Shrinkage tray	0.20		
		Shrinkage measuring scale	0.05		
18	Dimensional changes (of woven or knitted fabric) to washing (single wash and 2/3 wash)	Washing machine	0.50		
		Tumble Drier	0.50		
19	Colour fastness to light (for 10 hrs/20hrs exposure)	Light fastness tester – Q panel	2.00		
20		Rubbing fastness (dry/wet)	Crock Meter – Eureka	0.10	
21	Fastness to perspiration (acid / alkaline)	Perspirometer – BTRA	0.05		
22		Humidity / temp checking	Lab Hygrometer (Wet & Dry bulb)	0.05	
23	Air conditioning plant	3 ton (2 x 1.5 ton each)	0.50		
24		Humidifier	0.50		
25	Length, fineness, strength, elongation and colour grade	Low volume instrument	25.00		
26		Wool Fire Strength	Universal Tensile tester	30.00	Not Reqd
27	Computer and peripherals and office equipments		1.00		
Total Fund required			38.25	69.90	

Testing Infrastructure available at CSPs Raebareli and Chitradurga**A. At CSP Raebareli**

SN.	Name of Instruments	Purpose of the instrument Parameter testing (Specification & Capacity)	Qty.
01	Baer Sorter	Fibre length Measurement.	01
02	Fibre Fineness Tester	To measure the fineness of cotton in microgram per inch.	01
03	Trash analyser Digital	Determining the trash content in the raw cotton and sliver.	01
04	Fibre Bundle Strength Tester (Stelometer)	To find out the strength and elongation of fibre at break.	01
05	Beesley Balance	To measure the yarn count of fibre.	01
06	Yarn Evenness tester /Yarn Board winder	Preparing Yarn appearance boards.	01
07	Binocular Microscope (Magnifying Power at least 500 times)	To see the longitudinal and/or cross sectional iron of fibre	01
08	Neps Counting Template	To count number of neps.	01
09	Electronic balance	0.001 gram	01
10	Wrap block (Hank Preparation)	To find out the Sliver & Roving hank	01
11	Wrap reel (Roving count)	To prepare the Lee	01
12	Hot air oven With Regulator& Thermometer	To dry fabric yarn and fabric.	01
13	Desiccatorsd	To dry fabric yarn and fabric.	01
14	Weighing Bottles (Measuring)	-	01
15	Lab Hygro meter	To measure the Humidity.	01
16	Digital tensile strength tester with digital Load & Elongation	To find out the CSP of yarn and tearing strength of fabric	01
17	Crease Recovery tester	To measure crease stability	01
18	Measuring scale	-	01
19	Pill box(Pilling Tester)	To test pilling tendency of fabric	01
20	Round Cutter	Sample Cutting	01
21	Laundro meter with gray scale(Wash fast)	To find out the washing fasnest of the fabric	01
22	PH Meter (Digital)	To find out the PH Value of the solution.	01
23	Pick Glass	Counting of ends and picks	01
24	Shrinkage Measurement (Soak Tray Type)	Measure shrinkage in the tested sample	01
25	Lee Machine	Preparation of Lee	01

B. At CSP, Chitradurga

SN	Description	Quantity
01.	Tyt-05m Techno Twist tester (Motorized) with Display	1 No.
02.	TYT-03 Techno Lea strength Tester 200lbs Capacity	1 No.
03.	Wrap Block	1 No.
04.	Wrap Reel	1 set
05.	Fiber Fineness Tester	1 No.
06.	Trash Sorter	1 No.
07.	Fiber Bundle strength Tester Or Stelo Meter	1 No.
08.	Balance for bundle Strength Tester (50gms)	1 No.
09.	Bear Sorter tester	1 No.
10.	Moisture Meter (Electronic Type)	1 No.
11.	Pick Glass	5 Nos.
12.	Round Cutter	1 No.
13.	Shrinkage Template	2 Nos.
14.	Measuring Scale	1 No.
15.	Lab Hygrometer	1 No.
16.	Hot air Oven	1 No.
17.	Descicator	1 No.
18.	Weighing Bottles	2 Nos.
19.	Electronic Balance (300gms)	1 No.
20.	Auto winder	1 No.
21.	Beasely Balance	1 No.
22.	Tensile Strength	1 No.
23.	Crease Recovery Tester	1 No.
24.	<i>PH Meter</i>	<i>1 No.</i>
25.	Pill Box	1 No.
26.	Launder O meter	1 No.
27.	Grey Scales Change in Colour	1 No.
28.	Grey Scales – Staining	1 No.
29.	Conditioning Chamber	1 No.
30.	Light Compound Microscope	1 No.
31.	Crimp Tester	1 No.
32.	Air Conditioner	2 Nos.

Testing Report Format

<u>TEST REPORT</u>		
Test Report No:		Date:
Name & Address of Institution/Person		
Khadi Mark Certificate No.		
Sample forwarding letter No. & date		
Date of receipt of sample		
Sample No.		
Sample variety: Cotton/Silk/Wool		Lab Sample No.
Sample type: Yarn/Cloth		
Sample description: Grey/Bleached/Dyed/Printed/Others		
Date of Testing		
TEST RESULTS		
Laboratory Sample No.		
Identification mark if applicable		
1	Yarn	
1.1	Direction of twist 'S' or 'Z' in Single Yarn	
	Warp	
	Weft	
1.2	Direction of twist 'S' or 'Z' in Double Yarn	
2	Cloth	
2.1	Threads per unit length (inc) (IS: 1963-1981)	
	Ends per Inch	
	Picks per inch	
2.2	Identification of fiber (IS 667:1981)	
	Warp	
	Weft	
2.3	Natural Fiber Content (%)	
2.4	Twist in yarn removed from fabric (Single / Resultant) (IS 832)	
	Warp	
	Weft	
Remarks:		
Signature & Seal of the Officer		

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADURG
KARNATAKA STATE.
TEST REPORT

Test Report No: 01	Date:05/07/2017.
Name & Address of Institution/Person	Madurai Dist Sarvodaya Sangh, Madurai.
Sample forwarding letter No. & date	1438/27/06/2017.
Date of receipt of sample	29/06/2017.
Sample No.	01.
Sample variety: Cotton/Silk/Wool	Poly vastra
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	12/07/2017.

TEST RESULTS

Laboratory Sample No.	TN/01
Identification Mark if applicable	
01. Yarn	NA
Direction of twist 'S' or 'Z' in Single yarn	
Warp	
Weft	
Direction of twist 'S' or 'Z' in Double yarn	
02. Cloth (Poly/Cotton:65%:35%)	189.7 GSM
Threads per unit length(inch)(IS:1963-1981 PICKS	
Ends per Inch	42*2/inch
Picks per inch	27*2/inch
Identification of fiber(IS 667:1981)Count	Poly /cotton 65%:35% (doubling)
Warp	38,36 60/70s Count
Weft	37,38 60/70s Count
Natural Fiber content (%)	Poly/cotton (65%/35%)
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)	
Warp	S twist (left)
Weft	S twist (left)
04. SHRINKAGE %	Warp 6% and Weft 1%
05. UNI STRETCH	
Warp: Strip:	155.00 lbs 26.95 mm
Grab:	229.52 lbs 10.08 mm
Weft: Strip:	83.76 lbs 21.5 mm
Grab:	170.04 lbs 08.55 mm


Technician/Lab Incharge


Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADURG.
KARNATAKA STATE.
TEST REPORT

Test Report No: 01	Date:05/07/2017.
Name & Address of Institution/Person	Madurai Dist Sarvodaya Sangh, Madurai.
Sample forwarding letter No. & date	1438/27/06/2017.
Date of receipt of sample	29/06/2017.
Sample No.	02
Sample variety: Cotton/Silk/Wool	COTTON
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	12/07/2017.

TEST RESULTS

Laboratory Sample No.	TN/02	
Identification Mark if applicable		
01. Yarn	NA	
Direction of twist 'S' or 'Z' in Single yarn		
Warp		
Weft		
Direction of twist 'S' or 'Z' in Double yarn		
02. Cloth (Poly/Cotton:65%:35%)	150.4 GSM	
Threads per unit length(inch)(IS:1963-1981 PICKS		
Ends per Inch	35/inch	
Picks per inch	29*2/inch	
Identification of fiber(IS 667:1981)Count	100%	
Warp	17, 18 33s count	
Weft	18, 19 33s count	
Natural Fiber content (%)	Cotton 100%	
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)		
Warp	S twist (left)	
Weft	S twist (left)	
04. SHRINKAGE %	Warp 4% and Weft 1%	
05. UNI STRETCH	Warp: Strip:	86.37 lbs 23.95 mm
	Grab:	136.73 lbs 10.4 mm
	Weft: Strip:	102.62 lbs 15.95 mm
	Grab:	190.24 lbs 07.3 mm

Technician/Lab Incharge

Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADUR
KARNATAKA STATE.

TEST REPORT

Test Report No: 01	Date:05/07/2017.
Name & Address of Institution/Person	Madurai Dist Sarvodaya Sangh, Madurai.
Sample forwarding letter No. & date	DOM/XIV-KH/ST/2017-18/1438/27/06/2017.
Date of receipt of sample	29/06/2017.
Sample No.	03
Sample variety: Cotton/Silk/Wool	COTTON
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	12/07/2017.

TEST RESULTS

Laboratory Sample No.	TN/03	
Identification Mark if applicable		
01. Yarn	NA	
Direction of twist 'S' or 'Z' in Single yarn		
Warp		
Weft		
Direction of twist 'S' or 'Z' in Double yarn		
02. Cloth (Poly/Cotton:65%:35%)	175.7 GSM	
Threads per unit length(inch)(IS:1963-1981 PICKS		
Ends per Inch	51/inch	
Picks per inch	32*2/inch	
Identification of fiber(IS 667:1981)Count	100%	
Warp	17, 18 33s count	
Weft	18, 19 33s count	
Natural Fiber content (%)	Cotton 100%	
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)		
Warp	S twist (left)	
Weft	S twist (left)	
04. SHRINKAGE %	Warp 6.5% and Weft 0%	
05. UNI STRETCH	Warp: Strip:	74.73 lbs 29.85 mm
	Grab:	118.91 lbs 12.25 mm
	Weft: Strip:	150.36 lbs 17.9 mm
	Grab:	279.0 lbs 8.7 mm


Technician/Lab Incharge


Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITR
KARNATAKA STATE.
TEST REPORT

Test Report No: 01	Date: 07/12/2017
Name & Address of Institution/Person	Madurai west Sarvodaya Sangh, Tirumangalam. Divisional office, KVIC, Madurai.
Sample forwarding letter No. & date	DOM/XIV-KH/ST/2017-18/1438/27/06/2017.
Date of receipt of sample	29/06/2017.
Sample No.	03
Sample variety: Cotton/Silk/Wool	Cotton khadi Door curtain piece.
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	12/07/2017.

TEST RESULTS

Laboratory Sample No.	TN/01	
Identification Mark if applicable		
01. Yarn	NA	
Direction of twist 'S' or 'Z' in Single yarn		
Warp		
Weft		
Direction of twist 'S' or 'Z' in Double yarn		
02. Cloth (Poly/Cotton:65%:35%)	113.2 GSM	
Threads per unit length(inch)(IS:1963-1981 PICKS		
Ends per Inch	51/inch	
Picks per inch	36/inch	
Identification of fiber(IS 667:1981)Count	100%	
Warp	17, 18 33s count	
Weft	18, 19 33s count	
Natural Fiber content (%)	Cotton 100%	
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)		
Warp	S twist (left)	
Weft	S twist (left)	
04. SHRINKAGE %	Warp 4% and Weft 0%	
05. UNI STRETCH	Warp: Strip:	65.98 lbs 16.5 mm
	Grab:	89.99 lbs 6.6 mm
	Weft: Strip:	36.37 lbs 17.0 mm
	Grab:	61.06 lbs 6.1 mm

Technician/Lab Incharge

Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADURGA
KARNATAKA STATE.

TEST REPORT

Test Report No: 02	Date: 17/07/2017
Name & Address of Institution/Person	Madurai west Sarvodaya Sangh, Tirumangalam. Divisional office, KVIC, Madurai.
Sample forwarding letter No. & date	DOM/XIV-KH/ST/2017-18/1438/27/06/2017.
Date of receipt of sample	29/06/2017.
Sample No.	02
Sample variety: Cotton/Silk/Wool	Cotton khadi DT pillow cover.
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	17/07/2017.

TEST RESULTS

Laboratory Sample No.	TN/02	
Identification Mark if applicable		
01. Yarn	NA	
Direction of twist 'S' or 'Z' in Single yarn		
Warp		
Weft		
Direction of twist 'S' or 'Z' in Double yarn		
02. Cloth (Poly/Cotton:65%:35%)	142.6 GSM	
Threads per unit length(inch)(IS:1963-1981 PICKS)		
Ends per Inch	31*2/inch	
Picks per inch	28*2/inch	
Identification of fiber(IS 667:1981)Count	100%	
Warp	20, 19 (10*2) 33s count	
Weft	20, 19(10*2) 33s count	
Natural Fiber content (%)	Cotton 100%	
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)		
Warp	S twist (left)	
Weft	S twist (left)	
04. SHRINKAGE %	Warp 2% and Weft 2%	
05. UNI STRETCH	Warp: Strip:	86.57 lbs 19.4 mm
	Grab:	132.16 lbs 9.3 mm
	Weft: Strip:	54.27 lbs 17.4 mm
	Grab:	115.14 lbs 8.4 mm

Technician In Charge

Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADRA
KARNATAKA STATE.
TEST REPORT

Test Report No: 03	Date: 17/07/2017
Name & Address of Institution/Person	Madurai west Sarvodaya Sangh, Tirumangalam. Divisional office, KVIC, Madurai.
Sample forwarding letter No. & date	DOM/XIV-KH/ST/2017-18/1438/27/06/2017.
Date of receipt of sample	29/06/2017.
Sample No.	03
Sample variety: Cotton/Silk/Wool	Cotton Khadi DT colour piece.
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	17/07/2017.

TEST RESULTS

Laboratory Sample No.	TN/03	
Identification Mark if applicable		
01. Yarn	NA	
Direction of twist 'S' or 'Z' in Single yarn		
Warp		
Weft		
Direction of twist 'S' or 'Z' in Double yarn		
02. Cloth (Poly/Cotton:65%:35%)	184.5 GSM	
Threads per unit length(inch)(IS:1963-1981 PICKS)		
Ends per Inch	25*2/inch	
Picks per inch	24*2/inch	
Identification of fiber(IS 667:1981)Count	100%	
Warp	14, 16 (8*2) 26s count	
Weft	16, 14(8*2) 26s count	
Natural Fiber content (%)	Cotton 100%	
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)		
Warp	S twist (left)	
Weft	S twist (left)	
04. SHRINKAGE %	Warp 2% and Weft 0%	
05. UNI STRETCH	Warp: Strip:	70.96 lbs 26.9 mm
	Grab:	128.08 lbs 11.8 mm
	Weft: Strip:	72.12 lbs 22.5 mm
	Grab:	155.97 lbs 9.7 mm

Technician in Charge

Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADUR
KARNATAKA STATE.

TEST REPORT

Test Report No: 04	Date:17/07/2017.
Name & Address of Institution/Person	Madurai west Sarvodaya Sangh, Tirumangalam. Divisional office, KVIC, Madurai.
Sample forwarding letter No. & date	DOM/XIV-KH/ST/2017-18/1438/27/06/2017.
Date of receipt of sample	29/06/2017.
Sample No.	04
Sample variety: Cotton/Silk/Wool	2200 Dents poly piece.
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	17/07/2017.

TEST RESULTS

Laboratory Sample No.		TN/04
Identification Mark if applicable		
01.	Yarn	NA
	Direction of twist 'S' or 'Z' in Single yarn	
	Warp	
	Weft	
	Direction of twist 'S' or 'Z' in Double yarn	
02.	Cloth (Poly/Cotton:65%:35%)	73.2 GSM
	Threads per unit length(inch)(IS:1963-1981 PICKS	
	Ends per Inch	76/inch
	Picks per inch	57/inch
	Identification of fiber(IS 667:1981)Count	
	Warp	43, 42 60s/70s count
	Weft	44, 43 60s/70s count
	Natural Fiber content (%)	
03.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	
	Warp	S twist (left)
	Weft	S twist (left)
04.	SHRINKAGE %	Warp 1% and Weft 1%
05.	UNI STRETCH	
	Warp: Strip:	57.65 lbs 17.8 mm
	Grab:	116.33 lbs 8.3 mm
	Weft: Strip:	60.75 lbs 23.1 mm
	Grab:	97.35 lbs 10.0 mm

Technician/Lab Incharge

Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADRA
KARNATAKA STATE.
TEST REPORT

Test Report No: 03	Date: 17/07/2017.
Name & Address of Institution/Person	Virudhunagar Sarvodaya sangha Virudhunagar. Divisional office, KVIC, Madurai.
Sample forwarding letter No. & date	DOM/XIV-KH/ST/2017-18/1438/27/06/2017.
Date of receipt of sample	29/06/2017.
Sample No.	03
Sample variety: Cotton/Silk/Wool	2200 Dents poly piece.
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	17/07/2017.

TEST RESULTS

Laboratory Sample No.	TN/01
Identification Mark if applicable	
01. Yarn	NA
Direction of twist 'S' or 'Z' in Single yarn	
Warp	
Weft	
Direction of twist 'S' or 'Z' in Double yarn	
02. Cloth (Poly/Cotton:65%:35%)	83.2 GSM
Threads per unit length(inch)(IS:1963-1981 PICKS	
Ends per Inch	74/inch
Picks per inch	51/inch
Identification of fiber(IS 667:1981)Count	
Warp	43, 42 60s/70s count
Weft	44, 43 60s/70s count
Natural Fiber content (%)	
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)	
Warp	S twist (left)
Weft	S twist (left)
04. SHRINKAGE %	Warp 3% and Weft 4%
05. UNI STRETCH	
Warp: Strip:	100.44 lbs 26.9 mm
Grab:	140.34 lbs 10.00 mm
Weft: Strip:	83.64 lbs 18.3 mm
Grab:	118.12 lbs 07.5 mm


 Technician/Lab Incharge


 Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRAI
KARNATAKA STATE.
TEST REPORT

Test Report No: 02	Date:17/07/2017.
Name & Address of Institution/Person	Virudhunagar Sarvodaya sangha Virudhunagar. Divisional office, KVIC, Madurai.
Sample forwarding letter No. & date	DOM/XIV-KH/ST/2017-18/1438/27/06/2017.
Date of receipt of sample	29/06/2017.
Sample No.	02
Sample variety: Cotton/Silk/Wool	16 K X 127 X 173 Bl cotten Dhoty.
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	17/07/2017.

TEST RESULTS

Laboratory Sample No.		TN/02	
Identification Mark if applicable			
01.	Yarn	NA	
	Direction of twist 'S' or 'Z' in Single yarn		
	Warp		
	Weft		
	Direction of twist 'S' or 'Z' in Double yarn		
02.	Cloth (Poly/Cotton:65%:35%)	97.7 GSM	
	Threads per unit length(inch)(IS:1963-1981 PICKS		
	Ends per Inch	71/inch	
	Picks per inch	43/inch	
	Identification of fiber(IS 667:1981)Count		
	Warp	28.27 46s count	
	Weft	26.27 46s count	
	Natural Fiber content (%)		
03.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)		
	Warp	S twist (left)	
	Weft	S twist (left)	
04.	SHRINKAGE %	Warp 0% and Weft 1% stretch	
05.	UNI STRETCH	Warp: Strip:	55.51 lbs 24.00 mm
		Grab:	90.03 lbs 09.1 mm
		Weft: Strip:	17.46 lbs 12.5 mm
		Grab:	42.48 lbs 07.7 mm

Technician/Lab Incharge

Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADUR
KARNATAKA STATE.
TEST REPORT

Test Report No: 03	Date:17/07/2017.
Name & Address of Institution/Person	Virudhunagar Sarvodaya sangha Virudhunagar. Divisional office, KVIC, Madurai.
Sample forwarding letter No. & date	DOM/XIV-KH/ST/2017-18/1438/27/06/2017.
Date of receipt of sample	29/06/2017.
Sample No.	03
Sample variety: Cotton/Silk/Wool	Colour woven cotten Dhoty.
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	17/07/2017.

TEST RESULTS

Laboratory Sample No.		TN/03
Identification Mark if applicable		
01.	Yarn	NA
	Direction of twist 'S' or 'Z' in Single yarn	
	Warp	
	Weft	
	Direction of twist 'S' or 'Z' in Double yarn	
02.	Cloth (Poly/Cotton:65%:35%)	82.1 GSM
	Threads per unit length(inch)(IS:1963-1981 PICKS	
	Ends per Inch	54/inch
	Picks per inch	35/inch
	Identification of fiber(IS 667:1981)Count	
	Warp	26, 25 43s count
	Weft	29, 30 49s count
	Natural Fiber content (%)	
03.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	
	Warp	S twist (left)
	Weft	S twist (left)
04.	SHRINKAGE %	Warp 5% and Weft 3.5% stretch
05.	UNI STRETCH	
	Warp: Strip:	59.21 lbs 18.00 mm
	Grab:	33.84 lbs 09.7 mm
	Weft: Strip:	98.39 lbs 7.1 mm
	Grab:	61.90 lbs 04.5 mm

Technician/Lab Incharge

Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADURGA,
KARNATAKA STATE.

TEST REPORT

Test Report No: 01	Date:07/08/2017.
Name & Address of Institution/Person	Padiyur Sarvo. Sangh, PADIYUR. Kangayam. Sub office, KVIC, Coimbatore. Tamil Nadu.
Sample forwarding letter No. & date	SO/CBE/KH/khadi Mark/2016-17 07/07/2017.
Date of receipt of sample	15/07/2017.
Sample No.	01
Sample variety: Cotton/Silk/Wool	Cotton
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	07/08/2017.

TEST RESULTS

Laboratory Sample No.		TN/01
Identification Mark if applicable		
01.	Yarn	NA
	Direction of twist 'S' or 'Z' in Single yarn	
	Warp	
	Weft	
	Direction of twist 'S' or 'Z' in Double yarn	
02.	Cloth (Poly/Cotton:65%:35%) GSM	116.2 GSM
	Threads per unit length(inch)(IS:1963-1981 PICKS	
	Ends per Inch	43/inch
	Picks per inch	42/inch
	Identification of fiber(IS 667:1981)Count	
	Warp	15, 16 26s count
	Weft	16, 15 26s count
	Natural Fiber content (%)	100% cotton
03.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	
	Warp	S twist (left)
	Weft	S twist (left)
04.	SHRINKAGE %	Warp 3% and Weft 2%
05.	UNI STRETCH	
	Warp: Strip:	73.78 lbs 19.2 mm
	Grab:	128.11 lbs 9.1 mm
	Weft: Strip:	63.75 lb 18.0 mm
	Grab:	95.28 lb 7.9 mm

Technician/Lab Incharge


Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADURGA
KARNATAKA STATE.
TEST REPORT

Test Report No: 02	Date:07/08/2017
Name & Address of Institution/Person	Padiyur Sarvo. Sangh, PADIYUR. Kangayam. Sub office, KVIC, Coimbatore. Tamil Nadu.
Sample forwarding letter No. & date	SO/CBE/KH/khadi Mark/2016-17 07/07/2017.
Date of receipt of sample	15/07/2017.
Sample No.	02
Sample variety: Cotton/Silk/Wool	Cotton
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	07/08/2017.

TEST RESULTS

Laboratory Sample No.	TN/02	
Identification Mark if applicable		
01. Yarn	NA	
Direction of twist 'S' or 'Z' in Single yarn		
Warp		
Weft		
Direction of twist 'S' or 'Z' in Double yarn		
02. Cloth (Poly/Cotton:65%:35%) GSM	98.3 GSM	
Threads per unit length(inch)(IS:1963-1981 PICKS		
Ends per Inch	59/inch	
Picks per inch	49/inch	
Identification of fiber(IS 667:1981)Count		
Warp	24, 25 42 count	
Weft	25, 26 42 count	
Natural Fiber content (%)	100% cotton	
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)		
Warp	S twist (left)	
Weft	S twist (left)	
04. SHRINKAGE %	Warp 4% and Weft 2.5%	
05. UNI STRETCH	Warp: Strip:	71.31 lb 19.2 mm
	Grab:	128.11 lb 9.1 mm
	Weft: Strip:	63.75 lb 18.0 mm
	Grab:	95.28 lb 7.9 mm

Technician/Lab Incharge


Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITR
KARNATAKA STATE.
TEST REPORT

Test Report No: 03	Date:07/08/2017.
Name & Address of Institution/Person	Padiyur Sarvo. Sangh, PADIYUR. Kangayam. Sub office, KVIC, Coimbatore. Tamil Nadu.
Sample forwarding letter No. & date	SO/CBE/KH/khadi Mark/2016-17 07/07/2017.
Date of receipt of sample	15/07/2017.
Sample No.	03
Sample variety: Cotton/Silk/Wool	Cotton
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	07/08/2017.

TEST RESULTS

Laboratory Sample No.		TN/03
Identification Mark if applicable		
01.	Yarn	NA
	Direction of twist 'S' or 'Z' in Single yarn	
	Warp	
	Weft	
	Direction of twist 'S' or 'Z' in Double yarn	
02.	Cloth (Poly/Cotton:65%:35%) GSM	204.5 GSM
	Threads per unit length(inch)(IS:1963-1981 PICKS	
	Ends per Inch	42*2/inch
	Picks per inch	38*2/inch
	Identification of fiber(IS 667:1981)Count	
	Warp	9*2 (18) 30 count
	Weft	9*2 (18) 30 count
	Natural Fiber content (%)	100% cotton
03.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	
	Warp	S twist (left)
	Weft	S twist (left)
04.	SHRINKAGE %	Warp 5% and Weft 4%
05.	UNI STRETCH	
	Warp: Strip:	156.21 lb 34.3 mm
	Grab:	176.3 lb 14.5 mm
	Weft: Strip:	155.20 lb 23.2 mm
	Grab:	237.98 lb 8.7 mm

Technician/Lab Incharge



Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRAL
KARNATAKA STATE.

TEST REPORT

Test Report No: 04	Date:07/08/2017.
Name & Address of Institution/Person	Padiyur Sarvo. Sangh, PADIYUR. Kangayam. Sub office, KVIC, Coimbatore. Tamil Nadu.
Sample forwarding letter No. & date	SO/CBE/KH/khadi Mark/2016-17 07/07/2017.
Date of receipt of sample	15/07/2017.
Sample No.	04
Sample variety: Cotton/Silk/Wool	Cotton
Sample type: Yarn/Cloth	Colour cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	07/08/2017.

TEST RESULTS

Laboratory Sample No.		TN/04
Identification Mark if applicable		
01.	Yarn	NA
	Direction of twist 'S' or 'Z' in Single yarn	
	Warp	
	Weft	
	Direction of twist 'S' or 'Z' in Double yarn	
02.	Cloth (Poly/Cotton:65%:35%) GSM	144.3 GSM
	Threads per unit length(inch)(IS:1963-1981 PICKS	
	Ends per Inch	52*2/inch
	Picks per inch	40*2/inch
	Identification of fiber(IS 667:1981)Count	
	Warp	14*2 (28) 47 count
	Weft	14*2 (28) 47 count
	Natural Fiber content (%)	100% cotton
03.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	
	Warp	S twist (left)
	Weft	S twist (left)
04.	SHRINKAGE %	Warp 3% and Weft 2%
05.	UNI STRETCH	
	Warp: Strip:	126.17 lb 29.7 mm
	Grab:	184.68 lb 12.6 mm
	Weft: Strip:	83.64 lb 14.4 mm
	Grab:	145.54 lb 6.7 mm

Technician/Lab Incharge



Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADUR
KARNATAKA STATE.


TEST REPORT

Test Report No: 05	Date:07/08/2017.
Name & Address of Institution/Person	Padiyur Sarvo. Sangh, PADIYUR. Kangayam. Sub office, KVIC, Coimbatore. Tamil Nadu.
Sample forwarding letter No. & date	SO/CBE/KH/khadi Mark/2016-17 07/07/2017.
Date of receipt of sample	15/07/2017.
Sample No.	05
Sample variety: Cotton/Silk/Wool	Cotton
Sample type: Yarn/Cloth	Colour cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	07/08/2017.

TEST RESULTS

Laboratory Sample No.		TN/05
Identification Mark if applicable		
01.	Yarn	NA
	Direction of twist 'S' or 'Z' in Single yarn	
	Warp	
	Weft	
	Direction of twist 'S' or 'Z' in Double yarn	
02.	Cloth (Poly/Cotton:65%:35%) GSM	113.9 GSM
	Threads per unit length(inch)(IS:1963-1981 PICKS	
	Ends per Inch	82/inch
	Picks per inch	59/inch
	Identification of fiber(IS 667:1981)Count	
	Warp	32 60s/70s count
	Weft	36 60s/70s count
	Natural Fiber content (%)	Poly/cotton:(65%:35%)
03.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	
	Warp	S twist (left)
	Weft	S twist (left)
04.	SHRINKAGE %	Warp 0% and Weft 0%
05.	UNI STRETCH	
	Warp: Strip: Grab:	162.50 lb 27.1 mm 282.56 lb 12.1 mm
	Weft: Strip: Grab:	95.32 lb 21.0 mm 170.04 lb 9.4 mm

Technician/Lab Incharge



Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADURG
KARNATAKA STATE.
TEST REPORT

Test Report No: 06	Date:07/08/2017.
Name & Address of Institution/Person	Padiyur Sarvo. Sangh, PADIYUR. Kangayam. Sub office, KVIC, Coimbatore. Tamil Nadu.
Sample forwarding letter No. & date	SO/CBE/KH/khadi Mark/2016-17 07/07/2017.
Date of receipt of sample	15/07/2017.
Sample No.	06
Sample variety: Cotton/Silk/Wool	Cotton
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	07/08/2017.

TEST RESULTS

Laboratory Sample No.	TN/06	
Identification Mark if applicable		
01. Yarn	NA	
Direction of twist 'S' or 'Z' in Single yarn		
	Warp	
	Weft	
Direction of twist 'S' or 'Z' in Double yarn		
02. Cloth (Poly/Cotton:65%:35%) GSM	180.2 GSM	
Threads per unit length(inch)(IS:1963-1981 PICKS		
	Ends per Inch	62*2/inch
	Picks per inch	51*2/inch
Identification of fiber(IS 667:1981)Count		
	Warp	26 60s/70s count
	Weft	32 60s/70s count
Natural Fiber content (%)	Poly/cotton:(65%:35%)	
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)		
	Warp	S twist (left)
	Weft	S twist (left)
04. SHRINKAGE %	Warp 2.5% and Weft 2.5%	
05. UNI STRETCH	Warp: Strip:	269.55 lb 48.5 mm
	Grab:	413.98 lb 23.0 mm
	Weft: Strip:	198.70 lb 26.6 mm
	Grab:	321.30 lb 11.5 mm

Technician/Lab Incharge


Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADURGA,
KARNATAKA STATE.
TEST REPORT

Test Report No: 01	Date:10/08/2017.
Name & Address of Institution/Person	M/s. Cannanore Sarvo. Sangh, KANNUR.(Kerala)
Sample forwarding letter No. & date	SOK/X/Khadi II/Gen/2017-18/2460 11/07/2017.
Date of receipt of sample	19/07/2017
Sample No.	01.
Sample variety: Cotton/Silk/Wool	Poly/cotton shirting piece
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	10/08/2017.

TEST RESULTS

Laboratory Sample No.	KERALA/01	
Identification Mark if applicable		
01. Yarn	NA	
Direction of twist 'S' or 'Z' in Single yarn		
Warp		
Weft		
Direction of twist 'S' or 'Z' in Double yarn		
02. Cloth (Poly/Cotton:65%:35%) GSM	118.3 GSM	
Threads per unit length(inch)(IS:1963-1981 PICKS		
Ends per Inch	59/inch	
Picks per inch	37*2/inch	
Identification of fiber(IS 667:1981)Count		
Warp	26, 28 (46s) 60s/70s count	
Weft	13*2, 14*2 (46s) 60s/70s count	
Natural Fiber content (%)	Poly/cotton:(65%:35%)	
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)		
Warp	S twist (left)	
Weft	S twist (left)	
04. SHRINKAGE %	Warp 1% and Weft 0%	
05. UNI STRETCH	Warp: Strip:	113.03 lb 33.7 mm
	Grab:	189.13 lb 12.9 mm
	Weft: Strip:	90.78 lb 16.8 mm
	Grab:	262.83 lb 10.6 mm

Technician/Lab Incharge


Project Manager/Director

CENTRAL SLIVER PLANT, KHADI & VILLAGE INDUSTRIES COMMISSION, CHITRADUR
KARNATAKA STATE.
TEST REPORT

Test Report No: 02	Date:10/08/2017.
Name & Address of Institution/Person	M/s. Cannanore Sarvo. Sangh, KANNUR.(Kerala)
Sample forwarding letter No. & date	SOK/X/Khadi II/Gen/2017-18/2460 11/07/2017.
Date of receipt of sample	19/07/2017
Sample No.	02.
Sample variety: Cotton/Silk/Wool	Cotton shirting piece
Sample type: Yarn/Cloth	Cloth
Sample Description:	
Grey/Bleached/Dyed/Printed/others	
Date of Testing	10/08/2017.

TEST RESULTS

Laboratory Sample No.	KERALA/02
Identification Mark if applicable	
01. Yarn	NA
Direction of twist 'S' or 'Z' in Single yarn	
Warp	
Weft	
Direction of twist 'S' or 'Z' in Double yarn	
02. Cloth (Poly/Cotton:65%:35%) GSM	121.5 GSM
Threads per unit length(inch)(IS:1963-1981 PICKS	
Ends per Inch	42/inch
Picks per inch	31*2/inch
Identification of fiber(IS 667:1981)Count	
Warp	18, 17 30s count
Weft	20, 18 33s count
Natural Fiber content (%)	100% cotton
03. Twist in yarn removed from fabric(Single/Resultant)(IS 832)	
Warp	S twist (left)
Weft	S twist (left)
04. SHRINKAGE %	Warp 5% and Weft 1%
05. UNI STRETCH	
Warp: Strip:	58.18 lb 18.1 mm
Grab:	87.39 lb 8.4 mm
Weft: Strip:	59.37 lb 11.8 mm
Grab:	131.13 lb 6.0 mm

Technician/Lab Incharge



Project Manager/Director



कामये दूरकृतमानाम्।
प्रणिनाम् अतिनाशनम्॥



सत्यमेव जयते

खादी और ग्रामोद्योग आयोग

KHADI AND VILLAGE INDUSTRIES COMMISSION

(सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय, भारत सरकार)

(Ministry of Micro, Small & Medium Enterprises, Govt. of India)

Central Sliver Plant, Raebareli

TEST REPORT

Test Report No: 05		Date:22.09.17	
Name & Address of Institution/Person		Jan Kalyan Khadi Gr.Samiti tasrooli Post-Ghanna Distt-Ambala.	
Khadi Mark Certificate No.			
Sample forwarding letter No. & date		12/08/2017	
Date of receipt of sample		12/09/2017	
Sample No.		05	
Sample variety: Cotton/Silk/Wool		Cotton	Lab Sample No.
Sample type : Yarn/Cloth		Cloth	
Sample description:		Sooti Khes	
Grey/Bleached/Dyed/Printed/Others		Grey	
Date of Testing		22.09.2017	
TEST RESULTS			
Laboratory Sample No.		05	
Identification mark if applicable		-	
1.	Yarn	NA	
1.	Direction of twist 'S' or 'Z' in Single Yarn	-	
		Warp	-S
		Weft	-S
1.	Direction of twist 'S' or 'Z' in Double Yarn	-	
2.	Cloth GSM	-495	
2.	Threads per unit length(inc) (IS:1963-1981)		
		Ends per Inch	-28
		Picks per inch	-22
2.	Identification of fiber (IS 667:1981) Count-		
		Warp	- 10 Nm
		Weft	- 8 Nm
2.	Natural Fiber Content (%)	Cotton 100%	
3.		Warp	-do-
		Weft	-do-
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-	

TECHNICIAN/LAB INCHARGE

PROJ.MGR./DIRECTOR



औद्योगिक क्षेत्र, अमावा रोड, रायबरेली-229001 (उ०प्र०)

Industrial Area, Amawan Road, Raebareli-229001 (U.P.)

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(AN ISO-9001:2008 Certified Manufacturing Unit)



कामये दूरव्यमानम्।
प्राणिनाम् आतिनाशनम्॥



सत्यमेव जयते

खादी और ग्रामोद्योग आयोग
KHADI AND VILLAGE INDUSTRIES COMMISSION
(सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय, भारत सरकार)
(Ministry of Micro, Small & Medium Enterprises, Govt. of India)
Central Sliver Plant, Raebareli

TEST REPORT		
Test Report No: 06		Date:22.09.17
Name & Address of Institution/Person		Khadi Gramodyog Sangh, Mirzapur
Khadi Mark Certificate No.		
Sample forwarding letter No. & date		12/08/2017
Date of receipt of sample		12/09/2017
Sample No.		06
Sample variety: Cotton/Silk/Wool		Cotton Shirtings
Sample type : Yarn/Cloth		Cloth
Sample description:		Towal
Grey/Bleached/Dyed/Printed/Others		Grey
Date of Testing		22.09.2017
TEST RESULTS		
Laboratory Sample No.		06
Identification mark if applicable		-
1.	Yarn	NA
1.	Direction of twist 'S' or 'Z' in Single Yarn	-
	Warp	-S
	Weft	-S
1.	Direction of twist 'S' or 'Z' in Double Yarn	-
2.	Cloth GSM	-235
2.	Threads per unit length(inc) (IS:1963-1981)	
	Ends per Inch	-29
	Picks per inch	-30
2.	Identification of fiber (IS 667:1981) Count-	
	Warp	15 Nm
	Weft	12 Nm
2.	Natural Fiber Content (%)	Cotton 100%
3.	Warp	-do-
	Weft	-do-
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-

TECHNICIAN/LAB INCHARGE

PROJ.MGR./DIRECTOR



औद्योगिक क्षेत्र, अमावा रोड, रायबरेली-229001 (उ०प्र०)
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(AN ISO-9001:2008 Certified Manufacturing Unit)



कामये दृश्यमानम्।
प्राणिनाम् आतिनाशनम्॥



सत्यमेव जयते

खादी और ग्रामोद्योग आयोग

KHADI AND VILLAGE INDUSTRIES COMMISSION

(सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय, भारत सरकार)

(Ministry of Micro, Small & Medium Enterprises, Govt. of India)

Central Sliver Plant, Raebareli

TEST REPORT			
Test Report No: 07A		Date: 22.09.17	
Name & Address of Institution/Person		Bhartiya Khadi Gram Sewa Ashram Kanapur, Ambala	
Khadi Mark Certificate No.			
Sample forwarding letter No. & date		12/08/2017	
Date of receipt of sample		12/09/2017	
Sample No.		07A	
Sample variety: Cotton/Silk/Wool		Cotton Towal	Lab Sample No.
Sample type : Yarn/Cloth		Cloth	
Sample description:		Towel	
Grey/Bleached/Dyed/Printed/Others		Grey	
Date of Testing		22.09.2017	
TEST RESULTS			
Laboratory Sample No.		07A	
Identification mark if applicable		-	
1.	Yarn	NA	
1.	Direction of twist 'S' or 'Z' in Single Yarn	-	
	Warp	-S	
	Weft	-S	
1.	Direction of twist 'S' or 'Z' in Double Yarn	-	
2.	Cloth GSM	-169	
2.	Threads per unit length(inc) (IS:1963-1981)		
	Ends per Inch	-42	
	Picks per inch	-40	
2.	Identification of fiber (IS 667:1981) Count-		
	Warp	- 40 Nm	
	Weft	- 36 Nm	
2.	Natural Fiber Content (%)	Cotton 100%	
3.	Warp	-do-	
	Weft	-do-	
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-	

TECHNICIAN/LAB INCHARGE

PROJ.MGR./DIRECTOR



औद्योगिक क्षेत्र, अमावा रोड, रायबरेली-229001 (उ०प्र०)

Industrial Area, Amawan Road, Raebareli-229001 (U.P.)

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Email: cspkvicrbl@gmail.com Website: www.kvic.org.in

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खादी और ग्रामोद्योग आयोग
KHADI AND VILLAGE INDUSTRIES COMMISSION
(सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय, भारत सरकार)
(Ministry of Micro, Small & Medium Enterprises, Govt. of India)
Central Sliver Plant, Raebareli

TEST REPORT			
Test Report No: 07B		Date:22.09.17	
Name & Address of Institution/Person		Bhartiya Khadi Gram Sewa Ashram Kanapur, Ambala	
Khadi Mark Certificate No.			
Sample forwarding letter No. & date		12/08/2017	
Date of receipt of sample		12/09/2017	
Sample No.		07B	
Sample variety: Cotton/Silk/Wool		Cotton Carpet	Lab Sample No.
Sample type : Yarn/Cloth		Carpet	
Sample description:		Carpet	
Grey/Bleached/Dyed/Printed/Others		Dyed	
Date of Testing		22.09.2017	
TEST RESULTS			
Laboratory Sample No.		07B	
Identification mark if applicable		-	
1.	Yarn	NA	
1.	Direction of twist 'S' or 'Z' in Single Yarn	-	
	Warp	-S	
	Weft	-S	
1.	Direction of twist 'S' or 'Z' in Double Yarn	-	
2.	Cloth GSM	-1510	
2.	Threads per unit length(inc) (IS:1963-1981)		
	Ends per Inch	-9	
	Picks per inch	-15 (5 Plyed yarn)	
2.	Identification of fiber (IS 667:1981) Count-		
	Warp	- 4 Nm	
	Weft	-6 Nm	
2.	Natural Fiber Content-(%)	Cotton 100%	
3.	Warp	-do-	
	Weft	-do-	
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-	

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कामधे दृढताप्रदानम्।
प्राणिनाम् आतिनाशनम्॥



सत्यमेव जयते

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Central Sliver Plant, Raebareli

TEST REPORT		
Test Report No: 08A		Date:22.09.17
Name & Address of Institution/Person		Khadi Sadan Naigaon, Ambala
Khadi Mark Certificate No.		
Sample forwarding letter No. & date		12/08/2017
Date of receipt of sample		12/09/2017
Sample No.		08A
Sample variety: Cotton/Silk/Wool		Cotton Shirtings
Sample type : Yarn/Cloth		Cloth
Sample description:		Shirting
Grey/Bleached/Dyed/Printed/Others		Dyed
Date of Testing		22.09.2017
TEST RESULTS		
Laboratory Sample No.		08A
Identification mark if applicable		-
1.	Yarn	NA
1.	Direction of twist 'S' or 'Z' in Single Yarn	-
	Warp	-S
	Weft	-S
1.	Direction of twist 'S' or 'Z' in Double Yarn	-
2.	Cloth GSM	-90
2.	Threads per unit length(inc) (IS:1963-1981)	
	Ends per Inch	-32
	Picks per inch	-37
2.	Identification of fiber (IS 667:1981) Count-	
	Warp	56 Nm
	Weft	53 Nm
2.	Natural Fiber Content (%)	Cotton %%
3.	Warp	-do-
	Weft	-do-
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-

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Central Sliver Plant, Raebareli

TEST REPORT

Test Report No: 08B		Date:22.09.17	
Name & Address of Institution/Person		Khadi Sadan Naigaon, Ambala	
Khadi Mark Certificate No.			
Sample forwarding letter No. & date			
Date of receipt of sample		12/08/2017	
Sample No.		12/09/2017	
Sample variety: Cotton/Silk/Wool		Cotton Shirtings	Lab Sample No.
Sample type : Yarn/Cloth		Cloth	
Sample description:		Shirting	
Grey/Bleached/Dyed/Printed/Others		Printed	
Date of Testing		22.09.2017	
TEST RESULTS			
Laboratory Sample No.		08B	
Identification mark if applicable		-	
1.	Yarn	NA	
1.	Direction of twist 'S' or 'Z' in Single Yarn	-	
	Warp	-S	
	Weft	-S	
1.	Direction of twist 'S' or 'Z' in Double Yarn	-	
2.	Cloth GSM	-125	
2.	Threads per unit length(inc) (IS:1963-1981)		
	Ends per Inch	-52	
	Picks per inch	-36	
2.	Identification of fiber (IS 667:1981) Count-		
	Warp	- 25 Nm	
	Weft	- -45 Nm	
2.	Natural Fiber Content (%)	Cotton 100%	
3.	Warp	-do-	
	Weft	-do-	
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-	

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कामये दूरवर्तमानम्।
माणिनाम् आतिनाशनम्॥



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TEST REPORT		
Test Report No: 08C		Date:22.09.17
Name & Address of Institution/Person		Khadi Sadan Naigaon, Ambala
Khadi Mark Certificate No.		
Sample forwarding letter No. & date		12/08/2017
Date of receipt of sample		12/09/2017
Sample No.		08C
Sample variety: Cotton/Silk/Wool		Cotton Shirtings
		Lab Sample No.
Sample type : Yarn/Cloth		Cloth
Sample description:		Shirting
Grey/Bleached/Dyed/Printed/Others		Printed
Date of Testing		22.09.2017
TEST RESULTS		
Laboratory Sample No.		08C
Identification mark if applicable		-
1.	Yarn	NA
1.	Direction of twist 'S' or 'Z' in Single Yarn	-
	Warp	-S
	Weft	-S
1.	Direction of twist 'S' or 'Z' in Double Yarn	-
2.	Cloth GSM	-127
2.	Threads per unit length(inc) (IS:1963-1981)	
	Ends per Inch	-48
	Picks per inch	-34
2.	Identification of fiber (IS 667:1981) Count-	
	Warp	46 Nm
	Weft	40 Nm
2.	Natural Fiber Content (%)	Cotton 100%
3.	Warp	-do-
	Weft	-do-
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-

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TEST REPORT		
Test Report No: 01		Date: 21.09.17
Name & Address of Institution/Person		Khadi Gramodoug Vikas Samiti, Naribadh- Mau.
Khadi Mark Certificate No.		
Sample forwarding letter No. & date		07/09/2017
Date of receipt of sample		12/09/2017
Sample No.		01
Sample variety: Cotton/Silk/Wool		Cotton Shirtings
		Lab Sample No.
Sample type : Yarn/Cloth		Cloth
Sample description:		Khadi Cotton
Grey/Bleached/Dyed/Printed/Others		Grey
Date of Testing		21.09.2017
TEST RESULTS		
Laboratory Sample No.		01
Identification mark if applicable		-
1.	Yarn	NA
1.	Direction of twist 'S' or 'Z' in Single Yarn	-
	Warp	S
	Weft	S
1.	Direction of twist 'S' or 'Z' in Double Yarn	Z
2.	Cloth GSM	237 gms
2.	Threads per unit length(inc) (IS:1963-1981)	
	Ends per Inch	17 (2-Plied yarn)
	Picks per inch	32
2.	Identification of fiber (IS 667:1981) Count-	
	Warp	20 Nm
	Weft	40 Nm
2.	Natural Fiber Content (%)	Cotton-100%
3.	Warp	-do-
	Weft	-do-
2.	Twist in yarn removed from fabric(Single/Resultant) (IS 832)	-

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Central Sliver Plant, Raebareli

TEST REPORT			
Test Report No: 10B		Date: 22.09.17	
Name & Address of Institution/Person		Samagra Lokhit Sewa Ashram Bhadasar Bairan Gajipur	
Khadi Mark Certificate No.			
Sample forwarding letter No. & date		07/07/2017	
Date of receipt of sample		08/07/2017	
Sample No.		10B	
Sample variety: Cotton/Silk/Wool		Cotton Shirtings	Lab Sample No.
Sample type : Yarn/Cloth		Cloth	
Sample description:		Shirting	
Grey/Bleached/Dyed/Printed/Others		Grey	
Date of Testing		22.09.2017	
TEST RESULTS			
Laboratory Sample No.		10B	
Identification mark if applicable		-	
1.	Yarn	NA	
1.	Direction of twist 'S' or 'Z' in Single Yarn	-	
	Warp	-S	
	Weft	-S	
1.	Direction of twist 'S' or 'Z' in Double Yarn	-	
2.	Cloth GSM	-143	
2.	Threads per unit length(inc) (IS:1963-1981)		
	Ends per Inch	-52	
	Picks per inch	-38	
2.	Identification of fiber (IS 667:1981) Count-		
	Warp	50 Nm	
	Weft	42 Nm	
2.	Natural Fiber Content (%)	Cotton 100%	
3.		Warp	-do-
		Weft	-do-
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-	

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Central Sliver Plant, Raebareli

सत्यमेव जयते

TEST REPORT		
Test Report No: 10A		Date:22.09.17
Name & Address of Institution/Person		Samagra Lokhit Sewa Ashram Bhadasar Bairan Gajipur
Khadi Mark Certificate No.		
Sample forwarding letter No. & date		07/07/2017
Date of receipt of sample		08/07/2017
Sample No.		10A
Sample variety: Cotton/Silk/Wool		Cotton Shirtings
Sample type : Yarn/Cloth		Cloth
Sample description:		Shirting
Grey/Bleached/Dyed/Printed/Other's		Grey
Date of Testing		22.09.2017
TEST RESULTS		
Laboratory Sample No.		10A
Identification mark if applicable		-
1.	Yarn	NA
1.	Direction of twist 'S' or 'Z' in Single Yarn	-
	Warp	-S
	Weft	-S
1.	Direction of twist 'S' or 'Z' in Double Yarn	-
2.	Cloth GSM	-172
2.	Threads per unit length(inc) (IS:1963-1981)	
	Ends per Inch	-52
	Picks per inch	-32
2.	Identification of fiber (IS 667:1981) Count-	
	Warp	50 Nm
	Weft	46 Nm
2.	Natural Fiber Content (%)	Cotton 100%
3.	Warp	-do-
	Weft	-do-
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-

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Central Sliver Plant, Raebareli

TEST REPORT

Test Report No: 03		Date: 21.09.17	
Name & Address of Institution/Person		Van Awadh Khadi Gr.Samiti, Belaband, Khanapur, Mau	
Khadi Mark Certificate No.			
Sample forwarding letter No. & date			
Date of receipt of sample		09/09/2017	
Sample No.		03	
Sample variety: Cotton/Silk/Wool		Cotton Shirtings	Lab Sample No.
Sample type : Yarn/Cloth		Cloth	
Sample description:		Khadi Cotton	
Grey/Bleached/Dyed/Printed/Others		Grey	
Date of Testing		21.09.2017	
TEST RESULTS			
Laboratory Sample No.		03	
Identification mark if applicable		-	
1.	Yarn	NA	
1.	Direction of twist 'S' or 'Z' in Single Yarn	-	
	Warp	-S	
	Weft	-S	
1.	Direction of twist 'S' or 'Z' in Double Yarn	-	
2.	Cloth GSM	171 gms	
2.	Threads per unit length(inc) (IS:1963-1981)		
	Ends per Inch	-47	
	Picks per inch	-27	
2.	Identification of fiber (IS 667:1981) Count-		
	Warp	60 Nm	
	Weft	65 Nm	
2.	Natural Fiber Content (%)	Cotton 100%	
3.	Warp	-do-	
	Weft	-do-	
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-	

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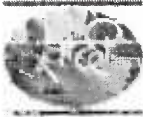
Central Sliver Plant, Raebareli

TEST REPORT

Test Report No: 04		Date: 21.09.17
Name & Address of Institution/Person		Kshetriya Khadi Gramodyog & Shikchan Sewa Sansthan Gram Sikroor Mau (UP)
Khadi Mark Certificate No.		
Sample forwarding letter No. & date		06/09/2017
Date of receipt of sample		09/09/2017
Sample No.		04
Sample variety: Cotton/Silk/Wool		Poly Shirts
Sample type : Yarn/Cloth		Cloth
Sample description:		Khadi Poly
Grey/Bleached/Dyed/Printed/Others		Printed
Date of Testing		21.09.2017
TEST RESULTS		
Laboratory Sample No.		04
Identification mark if applicable		-
1.	Yarn	NA
1.	Direction of twist 'S' or 'Z' in Single Yarn	-
	Warp	-S
	Weft	-S
1.	Direction of twist 'S' or 'Z' in Double Yarn	-
2.	Cloth GSM	-173
2.	Threads per unit length(inc) (IS:1963-1981)	
	Ends per Inch	-54
	Picks per inch	-34
2.	Identification of fiber (IS 667:1981) Count-	
	Warp	70 Nm
	Weft	80 Nm
2.	Natural Fiber Content (%)	-
3.	Warp	-
	Weft	-
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-

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Central Sliver Plant, Raebareli

TEST REPORT			
Test Report No: 09		Date: 22.09.17	
Name & Address of Institution/Person		Saghan Khestra Vikas Samiti, Basna Khas, Allahabad	
Khadi Mark Certificate No.			
Sample forwarding letter No. & date		07/08/2017	
Date of receipt of sample		17/08/2017	
Sample No.		09	
Sample variety: Cotton/Silk/Wool		Cotton Shirtings	Lab Sample No.
Sample type : Yarn/Cloth		Cloth	
Sample description:		Khadi Cloth	
Grey/Bleached/Dyed/Printed/Others		Grey	
Date of Testing		22.09.2017	
TEST RESULTS			
Laboratory Sample No.		09	
Identification mark if applicable		-	
1.	Yarn	NA	
1.	Direction of twist 'S' or 'Z' in Single Yarn	-	
	Warp	-S	
	Weft	-S	
1.	Direction of twist 'S' or 'Z' in Double Yarn	-	
2.	Cloth GSM	-137	
2.	Threads per unit length(inc) (IS:1963-1981)		
	Ends per Inch	-43	
	Picks per inch	-27	
2.	Identification of fiber (IS 667:1981) Count-		
	Warp	50 Nm	
	Weft	25 Nm	
2.	Natural Fiber Content (%)	Cotton 100%	
3.		Warp	-do-
		Weft	-do-
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-	

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Central Sliver Plant, Raebareli

TEST REPORT

Test Report No: 02		Date: 21.09.17	
Name & Address of Institution/Person		Khadi Gramodoug Vikas Samiti, Naribadh- Mau.	
Khadi Mark Certificate No.			
Sample forwarding letter No. & date		07/09/2017	
Date of receipt of sample		12/09/2017	
Sample No.		02	
Sample variety: Cotton/Silk/Wool		Cotton Shirtings	Lab Sample No.
Sample type : Yarn/Cloth		Cloth	
Sample description:		Khadi Cotton	
Grey/Bleached/Dyed/Printed/Others		Grey	
Date of Testing		21.09.2017	
TEST RESULTS			
Laboratory Sample No.		02	
Identification mark if applicable		-	
1.	Yarn	NA	
1.	Direction of twist 'S' or 'Z' in Single Yarn	-	
		Warp	S
		Weft	S
1.	Direction of twist 'S' or 'Z' in Double Yarn	-	
2.	Cloth GSM	237	
2.	Threads per unit length(inc) (IS:1963-1981)		
		Ends per Inch	17 (2-Plied yarn)
		Picks per inch	31
2.	Identification of fiber (IS 667:1981) Count-		
		Warp	20 Nm
		Weft	40 Nm
2.	Natural Fiber Content (%)	Cotton 100%	
3.		Warp	-do-
		Weft	-do-
2.	Twist in yarn removed from fabric(Single/Resultant)(IS 832)	-	

TECHNICIAN/LAB INCHARGE

PROJ.MGR./DIRECTOR



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