



**BUREAU OF INDIAN STANDARDS**

MINISTRY OF CONSUMER AFFAIRS, FOOD & PUBLIC DISTRIBUTION

VIJAYAWADA BRANCH OFFICE





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**Shri. Pramod Kumar Tiwari, IAS, Director General (BIS) reviewing the 2022-23 performance of the branches under SRO and giving directions to the way forward on 01-06-2023 at SRO, Chennai**



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# **BUREAU OF INDIAN STANDARDS VIJAYAWADA BRANCH OFFICE**

## **PART 1**

### **1. INTRODUCTION**

Bureau of Indian Standards (BIS), the National Standards Body of India was established under the BIS Act 1986, assuming the functions of the erstwhile Indian Standards Institution (ISI). BIS Act 2016 came into force on 12 October 2017 superseding BIS Act 1986. BIS is responsible for the harmonious development of the activities of standardization, marking and quality certification of goods and for matters connected therewith or incidental thereto.

With the integration of global economies, countries around the world are strategically positioning themselves at international level to gain competitive edge and achieve economic benefits. As standards and conformity assessment are significantly influencing global trade, countries are therefore adopting strategies to seek positions in international standardization forums to influence international standards in their favour. India in tandem with National standardisation strategies is interacting with various industry associations to harness Indian skills and strength and review the existing standards and make forays into new avenues relevant from the view point of standardization.

Standardization supports economic growth, enhances competitiveness and fosters technological developments. It is also a tool to influence public policies such as health and safety, protection of environment and consumer protection. By ensuring a level playing field and defining common criteria of acceptance of goods, standards are increasingly being used as tools to support regulatory framework and to facilitate trade. In this regard, BIS is fruitfully interacting with various stakeholders to bring a number of products under mandatory certification thereby ensuring protection of consumers' interest.

BIS through its core activities of standardization and conformity assessment, has been benefiting the national economy by providing safe, reliable and quality goods; minimizing health hazards to consumers; protecting the environment, promoting exports and imports substitute; controlling over proliferation of varieties etc. The standards and certification scheme of BIS apart from benefitting the consumers and industry also support various public policies especially in areas of product safety, consumer protection, food safety, environment protection, building and construction, etc.

### **Establishment of a new office for the Bureau of Indian Standards at Vijayawada**

The Vijayawada Branch office (VJBO) was established on July 6<sup>th</sup>, 2022. The establishment of a new office for the Bureau of Indian Standards presents an opportunity to reinforce its role as a pioneer in quality assurance in the state of the Andhra Pradesh. The new BIS office serving as a beacon of excellence, driving progress in various sectors, continue to promote quality and standards and contribute to the nation's growth and development.

Vijayawada branch office is established with dedicated spaces for workshops, seminars, training sessions, areas with audiovisual capabilities, comfortable seating, and interactive learning tools. The office encourage continuous learning and professional development among BIS employees to ensure they stay abreast of emerging trends and technologies.

## THE INAUGURATION OF BIS, VIJAYAWADA BRANCH OFFICE



Wednesday, 06<sup>th</sup> July 2022

**Shri M Girija Shankar, I.A.S.,**

**Commissioner of Civil Supplies & Secretary to Government of Andhra Pradesh**

In the presence of

**Shri U.S.P. Yadav, Dy. Director General Southern Region**

**Shri G. Venkatanarayanan, Director, MSCO(S)**

**Shri M.A.J. Vinod, Director & Head**







## 2. CONFORMITY ASSESSMENT

Bureau of Indian Standards (BIS) is operating Product Certification Scheme (Scheme-I) under the provisions of the BIS Act 2016 and the Rules & Regulations framed thereunder, aimed at ensuring the quality of the products to the relevant Indian Standard and thus providing a third party assurance to the consumer.

In the product certification scheme, BIS grants licence to manufacturers for use of ISI Mark on their products after assessment of the manufacturing and testing capabilities of the applicant manufacturer through factory inspection of the manufacturing premises. During this visit, samples of the product are drawn and tested at a third party testing laboratory or in-house or through a combination of both for establishing conformity of the product to the requirements of the relevant Indian Standard. Licence is granted initially for not less than one year and upto two years and can be renewed for a further period of not less than one year and up to five years.

The product certification scheme of BIS is primarily voluntary in nature and at present more than **1150** products are covered under this scheme and more than **41000** licences are under operation all over the country. Out of these products, considering the health and safety of the consumers, the Central Government has brought over **480** products under compulsory BIS certification through issuance of various Quality Control Orders (Technical Regulations). As per these Quality Control Orders, no person shall by himself or through any person on his behalf manufacture or store for sale, sell or distribute the notified products which do not conform to the specified Indian Standards and do not bear Standard Mark under a licence from BIS as per Scheme-I of BIS (Conformity Assessment) Regulations, 2018. The Quality Control Order is also applicable to the foreign manufacturer who intends to export their product to India.

The VJBO is operative with over 820 licences for multi-disciplinary manufacturing units of the Andhra Pradesh state, which also includes many Mandatory Certified products.

**During the year 2022-23, VJBO granted the ALL INDIA FIRST LICENCE for IS 13450 (PART 2/SEC 44):2016- Basic Safety and Essential requirements for X-ray medical equipment for computed tomography, to M/s.Trivitron Healthcare Private Limited at AMTZ, Vizag.**



**Shri M.A.J. Vinod, Sr. Director & Head, BIS handed over the Licence to the Trivitron Team led by Shri Satyaki Banerjee (COO) in the presence of Shri Syed Akbaruddin, Former Foreign Secretary (GOI) and Dr. Jitendar Sharma, Chairman AMTZ on 06.01.2023, BIS foundation day.**



### 3. SURVEILLANCE AND ENFORCEMENT

#### Surveillance and Monitoring:

With a view to enhance the effectiveness of product certification activity at BIS, a thrust has been given to surveillance & monitoring. The surveillance activities (both factory & market surveillance) across India are coordinated through the dedicated nodal department “Certification Surveillance & Monitoring Department (CSMD)” at BIS HQ. Implementation of IT enabled surveillance planning and mobile app-based reporting system for carrying out factory surveillance, proper planning and engagement of outsource agencies has resulted in the achievement of 86% (855 licences) coverage of licenses under factory surveillance, which has been significantly improved from the coverage during the previous years.

Similar to factory inspection activity, through IT enabled surveillance planning and mobile app-based reporting system for carrying out market surveillance and prompt planning has resulted in the successful drawl of market samples of the licenses for which sample can be drawn from the market, dispatch point or organized buyer which again has been markedly increased compared to the coverage during the previous years. To make market surveillance more effective, licensees have been provided with the facility of an online dashboard for submission of consignee and production details. For products imported and having Standard Mark, a consignee portal has been developed where foreign manufacturers have to provide details of products shipped to India bearing Standard Mark. Thereafter, market surveillance is planned by BIS for procurement of samples and testing in the laboratory.

The number of Market Samples for the licensees under VJBO drawn in the year 2022-23 are: 1173.



The number of Samples drawn for the licensees of Foreign Manufacture Certification Scheme in the year 2022-23 are 9.

**Enforcement:**

BIS Standard Marks are marks of quality and trust. Through its network of Regional and Branch Offices, BIS conducts enforcement activity to curb unauthorized use of BIS Standard Mark by unscrupulous manufacturers.

According to the provisions of BIS Act, 2016,

**Section 14** - Certification of Standard Mark of jewellers and sellers of certain specified goods or articles.

(1) The Central Government, after consulting the Bureau, may notify precious metal articles or other goods or articles as it may consider necessary, to be marked with a Hallmark or Standard Mark, as the case may be, in a manner as specified in sub-section (2).

(2) The goods or articles notified in sub-section (1) may be sold through retail outlets certified by the Bureau after such goods or articles have been assessed for conformity to the relevant standard by testing and marking centre, recognised by the Bureau and marked with Hallmark or Standard Mark, as the case may be, as specified by regulations.

**Section 15** - Prohibition to import, sell, exhibit, etc.

(1) No person shall import, distribute, sell, store or exhibit for sale, any goods or article under sub-section (1) of section 14, except under certification from the Bureau.

**Section 16** - Prohibition to manufacture, sell, etc., certain goods without Standard Mark under sub-section (1) of section 16.

(1) If the Central Government is of the opinion that it is necessary or expedient so to do in the public interest or for the protection of human, animal or plant health, safety of the environment, or prevention of unfair trade practices, or national security, it may, after consulting the Bureau, by an order published in the Official Gazette, notify—

(a) goods or article of any scheduled industry, process, system or service; or

(b) essential requirements to which such goods, article, process, system or service, which shall conform to a standard and direct the use of the Standard Mark under a licence or certificate of conformity as compulsory on such goods, article, process, system or service.

**Section 17** - Prohibition to manufacture, sell, etc., certain goods without Standard Mark.—

(1) No person shall manufacture, import, distribute, sell, hire, lease, store or exhibit for sale any such goods, article, process, system or service under sub-section (1) of section 16—

(a) without a Standard Mark, except under a valid licence; or

(b) notwithstanding that he has been granted a license, apply a Standard Mark, unless such goods, article, process, system or service conforms to the relevant standard or prescribed essential requirements.

During the year 2022-23, BIS Vijayawada carried out 3 Search & Seizure operations at the premises of manufacturers misusing BIS Standard Marks and seized material bearing fake BIS Standard Marks. This also includes Search and seizure carried out at premises of manufacturers violating quality control orders. Press releases in the leading dailies with a view to give wide publicity and creating awareness among the consumers were also issued by BIS. Efforts were also made to timely launch prosecution in court of law for violation of provisions of BIS Act, 2016. The following are the 3 enforcement cases:

1. M/s Sri Siddhi Vinayaka Assaying and Hallmarking Center, Choutra Post Office, Guntur on 10.08.2022.
2. M/s Kamadhenu Associates- Brooks, Moghalrajpuram, Vijayawada on 05.01.2023.
3. M/s Toon Town – PVP Square Mall, M.G Road, Vijayawada on 18.01.2023.



#### **4. HELPING LICENSEES FOR BETTER COMPLIANCE**

Vijayawada Branch Office (VJBO) has successfully organised four capsule training programmes to help the manufacturers and licensees for better compliance of the Quality control personnel of specific industry related to the course of the programmes in the year 2022-23. The main objective of the capsule course is capacity building of industries so as to raise the quality level in the country. During the training programme, the QC personnel were trained on BIS guidelines for Grant of Licence, change of Scope, renewal, and unsatisfactory performance of the requirements of Indian Standards, product manual / SIT and different testing parameters. There were also discussed about licence and products non- conformity , New features of BIS website such as Know your standards, standard of week/month, Manakonline portal, and BIS Care App were also demonstrated. The sessions were made



very interactive through open house discussion on best practice being followed by industries in the areas of manufacturing and testing. The BIS initiative of QC personnel training was taken as welcoming step towards quality conscious. Queries raised by the participants on the standards which were clarified for better understanding. The feedback was received from the participants that it was a positive learning experience and that the course helped them understand the standard better. The participants are active in looking forward to further discussions with BIS officials in the near future.

## **1. Capsule training Programme for Quality Control Personnel of Cement manufacturers.**

A two days capsule course for Quality Control personnel on various Indian Standards for Cements (Like Portland Pozzolona cement, blended cement etc.) on 10<sup>th</sup> and 11<sup>th</sup> August 2022. The program was attended by 18 QC personnel from various industries across Andhra Pradesh.



The participants were taken on a tour to BIS licensee (M/s Ramco Cement Limited, Jaggaipeta) to witness manufacturing process and testing activities.

## **2. Capsule training Programme for Quality Control Personnel of Pipe manufacturers**

A Two days capsule Course for QC Personnel of Pipe manufacturers as per IS 4984 and IS 4985 on 21<sup>st</sup> and 22<sup>nd</sup> September 2022. The program was attended by 18 QC personnel from various industries across Andhra Pradesh.



On 22nd September 2022 the participants were taken for a tour to CIPET, Vijayawada to witness manufacturing process and testing activities.



### 3. Capsule training Programme for Quality Control Personnel of IS 14543 Packaged Drinking Water

A two days capsule course for QC personnel IS 14543 Packaged Drinking Water on 06<sup>th</sup> and 07<sup>th</sup> December 2022. The program was attended by 23 QC personnel from various industries across Andhra Pradesh.



On 07th December 2022 the participants were taken to the Laboratory (M/s Accurate Envirochem and Food Analytical Laboratory) to witness live testing & testing process.





#### 4. Capsule training Programme for Quality Control Personnel of IS 13334 Part1: 2014 Skimmed Milk Powder.

A two days capsule Course for Quality Control Personnel of IS 13334 Part1: 2014 Skimmed Milk Powder on 16<sup>th</sup> & 17<sup>th</sup> February 2023. The program was attended by 13 QC personnel from various units across Andhra Pradesh.



On 17 February 2023, the participants were taken to M/s The Krishna District Milk Producers Mutually Aided Co. Operative Union Ltd (Vijaya Dairy) (BIS licenced unit for IS 13334 (Part 1):2014 Skimmed Milk Powder at Vijayawada).



#### 5. HALLMARKING

The Hallmarking is a process of certifying the purity and authenticity of precious metal articles such as Gold & Silver. This involves the testing and marking of the articles/ jewellery by BIS recognised Assaying & Hallmarking Centers. The hallmark indicates that the article has been independently tested and meets the required standards of purity.

The Government of India has made Hallmarking as mandatory w.e.f 15<sup>th</sup> January, 2021 by the Order called the Hallmarking of Gold Jewellery and Gold Artefacts Order, 2020.

The new marking of BIS Hallmark includes

- 1) BIS Logo.
- 2) Purity /fineness.
- 3) HUID (Hallmark Unique Identification) and is a unique alpha-numeric digit assigned to the hallmarked jewellery/article. HUID helps to ensure traceability and authenticity of hallmarked articles.

The BIS, Vijayawada possess around 4800 jeweller registrations across the state of Andhra Pradesh with 66 Assaying & Hallmarking Centers.

Carat	Gold Purity/Grade
14K	585
18K	750
20K	833
22K	916
23K	958
24K	999



Bureau of India Standards (BIS) has prohibited the sale of jewellery or gold artefacts without HUID from **1st April 2023**.



VJBO conducted many awareness programmes to the jewellers & also to the consumers.





## **PART 2**

### **STANDARDS PROMOTION**

#### **1. STANDARDS CLUBS.**

Children are the future and form the foundation on which a strong, vibrant and dynamic nation is built. The values children are exposed to in their formative years get inculcated in their young minds and serve as a force multiplier that has the capacity to transform the future of a nation. Quality consciousness, based on standardization, is one of the pillars of accelerated economic development and priming students to appreciate the significance of quality, standards and standardization can serve as a catalyst to improve societal awareness on these subjects.

BIS has taken the initiative of creating Standards Clubs in educational institutions comprising teachers and students as members. Through a variety of activities under these Clubs, young talents get learning opportunities in the field of quality and standardization. Teachers have an important role in the activities of the Clubs and would serve as beacons of light, guiding and motivating students to channelize their creativity and enhance their scientific temperament. Though in its nascent stage, the Standards Clubs have already garnered prominence and are being enthusiastically promoted by educational institutions to supplement and improve the schooling experience of students and provide opportunities to better their professional and personal growth.

The BIS Standard Clubs will be encouraged to undertake varied activities during the years such as Awareness Programme on Standards and Quality, Standards Writing Competition and other Competitions on Standards and Quality including Quiz, Essay Writing and Debate etc. Financial support for three activities per year per Standards Club will be provided by BIS. In order to streamline this process of formation and operation of Standards Club pan India, detailed guidelines have been issued by BIS in the website [www.bis.gov.in](http://www.bis.gov.in)

Each Standard Club will be encouraged to undertake various activities during the years such as Awareness Programme on Standards and Quality, Standards Writing Competition and other Competitions on Standards and Quality including Quiz, Essay Writing and Debate etc. Financial support for three activities per year per Standards Club will be provided by BIS. In order to streamline this process of formation and operation of Standards Club pan India, detailed guidelines have been issued by BIS.

VJBO has created 58 Standards clubs in the year 2022-23 in the schools all over the state of Andhra Pradesh.

#### **Mentors Training Programme:**

These are two day residential training programmes to the mentors of the Standards clubs with presentation on Overview of BIS Activities, Activities under Standards clubs, live demo on BIS Website, Portals & BIS Care App, along with the procedure of How to download ISs, Role of Academia, Standardization and Quality ecosystem, Standardization in service sectors, details on the types of Standardization & Standards, composition of the Indian Standards etc. During the course, the workshops are conducted to the mentors like Standards writing etc.

VJBO conducted two such training programmes to the mentors of the Standards Clubs on.:

1. 22 & 23 August 2022 at Visakhapatnam.
2. 09 & 10 February 2023 at Vijayawada.

Vijayawada Branch Office (VJBO) has trained all the 58 mentors of the standards clubs created so far till March 2023.



## Standards Writing Competitions:

Atleast one activity was conducted in all the standards clubs of the school. The activity of Standards Writing competition has also been conducted along with the mentors to the members of standards clubs (and also to the other interested students in the school). An amount of Rs.1500/-, Rs.1000/-, Rs.750/- and Rs.500/- were awarded to the first, second, third and consolation prize winners in each school in the presence of the respected Head Master/ Mistress.



Brief presentations on the core activities of BIS and the Standards marks from BIS made up during the Standards writing activity in the Standards Clubs.





Definition of a standard and formulation of Indian standards were explained to the students. An illustration product was used to explain the composition of Standard. Subsequently, a product to write a standard for was assigned to the students.

## వస్తువుల నాణ్యతపై అవగాహన అవసరం

పొదిలి, న్యూస్టుడే: మనం వినియోగించే ప్రతి వస్తువు నాణ్యత, మన్నిక కలిగి ఉండాలని బ్యూరో ఆఫ్ ఇండియన్ స్టాండర్డ్స్ విజయవాడ ప్రతినిధి శ్రీకృష్ణవీరవర్మ అన్నారు. మంగళవారం... పొదిలి ప్రభుత్వ బాలికల ఉన్నత పాఠశాలలో స్టాండర్డ్స్ క్లబ్ ప్రారంభోత్సవ కార్యక్రమంలో ఆయన మాట్లాడారు. వివిధ వస్తువుల నాణ్యతా ప్రమాణాలపై అవగాహన కల్పించారు. ప్రధానోపాధ్యాయుడు ఎం.శ్రీనివాసులు మాట్లాడుతూ జిల్లాలో మొట్ట మొదటిగా ప్రమాణాల క్లబ్ మా పాఠశాలలో ఏర్పాటుచేయడం సంతోషకరమన్నారు. వినియోగదారుల రక్షణ సమితి సభ్యులు జి.బి.షా, జహంగీర్ జాషా, కె.యల్లమందారెడ్డి, ఎం. సీహెచ్.సుబ్బారావు, నరసింహారావు, భూమా రామసుబ్బారావు తదితరులు పాల్గొన్నారు.



సమావేశంలో మాట్లాడుతున్న శ్రీకృష్ణవీరవర్మ, చిత్రంలో ప్రధానోపాధ్యాయుడు శ్రీనివాసులు, సభ్యులు





## Exposure Visits:

Going by the phrase 'Seeing is Believing', BIS has initiated the concept of exposure visits for industry and academia to enhance their quality consciousness. During the exposure visits the industry and students are brought to BIS offices and laboratories which have been developed as learning spaces.



Students were made to visit VJBO, and explained about the activities of BIS in brief with a presentation, how to find the Genuineness of the standard marks of a product using BIS Care App, followed by quiz activity in the office premises. Students also learnt briefly about manufacturing process of LPG cylinder/ Packaged Drinking Water/ Asbestos sheets units through the industry visit.







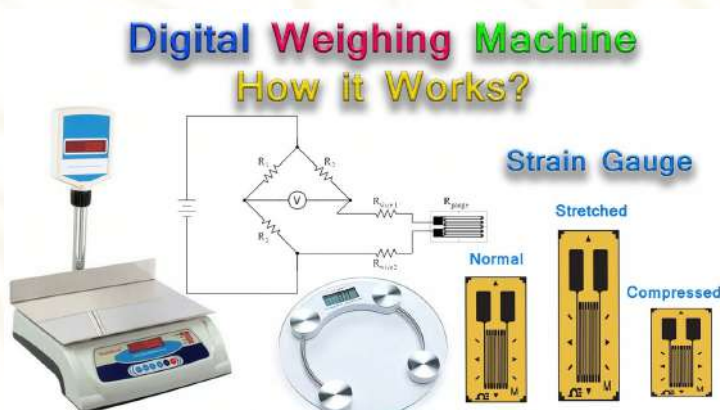
**The Exposure visits carried out in the year 2022-23 are :**

S.No	Name of the School	Date	No. of students
1	Govt High School, Sabbavaram	08.04.2022	36
2	Zilla Parishad High School, Darlapudi	12.07.2022	31
3	Zilla Parishad High School, Narava	13.07.2022	27
4	Zilla Parishad High School, Anandapuram	25.08.2022	32
5	Zilla Parishad High School, Thotagaruvu	26.08.2022	36
6	Government High School, Pendurthi	23.09.2022	31
7	Queen Mary's Girls High School, Visakhapatnam	22.09.2022	35
8	AP Model School, Kothavalasa	27-10-2022	40
9	Zilla Parishad High School, Yelamanchili	28.10.2022	32
10	KBC Zilla Parishad High School, Patamata	29.11.2022	29
11	Zilla Parishad High School, Penamaluru	21.12.2022	26
12	Gandhiji MC High School, Vijayawada	22.12.2022	35
13	MGM High School, Visakhapatnam	27.01.2023	25
14	GVNMC High School, Seethammadhara	31.01.2023	30
15	Zilla Parishad High School, Nuthakki	27.02.2023	32
16	Zilla Parishad High School, Nambur	28.02.2023	28
17	Zilla Parishad High School, Atkur	24.03.2023	48
18	Zilla Parishad High School, Vatticherukuru	31.03.2023	28

## 2. LEARNING SCIENCE VIA STANDARDS

BIS, Lesson plan based on Standards prepared to demonstrate the application of scientific laws and principles to make the Standard. Learning science via standards involves aligning science education with predefined learning standards. These lesson plan are developed by experts of BIS to provide a clear roadmap for science & standards, ensuring that students acquire specific knowledge, skills, and competencies in the subject.

One such lesson plan on Electronic Weighing Balance was prepared by Sh.M.A.J.Vinod & Smt. T.Sujatha.



Other BIS lesson plans are available on the link:

<https://www.bis.gov.in/learning-science-via-standards/>

S.No	IS Number	IS Title
1	IS 252	Caustic Soda
2	IS 269	Ordinary Portland Cement
3	IS 4246	Gas Stove
4	IS 2082	Geyser
5	IS 4151	Helmet
6	IS 16102 Part 1	LED Bulbs
7	IS 3196 Part 1	LPG Cylinders
8	IS 2932	Paints
9	IS 16720	Pulverised Fuel Ash Cement Bricks
10	IS 417 Part 1	Football



### 3. RESOURCE PERSON TEAMS

BIS, Vijayawada Branch Office has engaged around 61 resource persons from various fields like manufacturers, quality, professors, consumer organisations etc. These resource persons were engaged to support BIS in various Standards Promotion Programmes i.e., Creation of Standards clubs, Standards club activities, Consumer awareness programmes, RWAs programmes etc.

### 4. DISTRICT LEVEL OFFICERS TRAINING

District Level Officers have been identified as major stakeholders for adoption of Standards relevant to their respective fields. BIS had identified a department-wise list of Standards as relevant to them. In order to enable them to access and adopt the various Standards in programme implementation, training programmes were conducted for District Level Officers and state government departments, for example PWD, Agriculture, Irrigation, etc. These were followed up by personal visits by BIS officers for apprising them of BIS activities and offering them to assist the departments in understanding the significance of Standards and insisting on products with BIS certification mark during procurement, whenever feasible.



The training programmes covered detailed presentations on Standards and Quality Ecosystem, activities of BIS, features of BIS website and various portals and also sector specific list of major standards.



The training programmes were scheduled in a way to attain the importance of standardization, and procurement of quality goods by the district administration in the presence of Collectors & District Magistrates. The training programmes organised to the district level officers to best utilize the unique and tailor made information to harness their knowledge in developing quality eco-system.







The training programmes which were conducted during the year 2022-23:

S.No	District	Date of the programme commenced
1	Srikakulam	07.05.2022
2	Parvathipuram	15.06.2022
3	Krishna	22.12.2023
4	Visakhapatnam,	24.06.2022
5	Vizianagaram	23.12.2022
6	Anakapalli	18.11.2022
7	Kakinada	24.02.2023
8	Konaseena	10.03.2023
9	Alluri Sitaramaraju	02.01.2023
10	East Godavari	25.05.2022
11	Eluru	20.05.2022
12	NTR District	24.01.2023
13	Guntur	27.05.2022
14	West Godavari	18.05.2022
15	Bapatla	08.02.2023
16	Prakasam	09.02.2023
17	Sri Potti Sriramulu Nellore	10.01.2022
18	Tirupati	31.01.2023
19	Annamayya	26.05.2022
20	YSR Kadapa	01.02.2023
21	Chittoor	31.01.2023
22	Ananthapuramu	24.01.2023
23	Kurnool	25.01.2023
24	Sri Sathya Sai	23.01.2023
25	Palnadu	01.05.2023
26	Bhadradi Kothagudem	25.03.2023



## 5. ENGAGEMENT WITH ACADEMIC INSTITUTIONS

There were several interactions with the Academic Institutions by VJBO as Educational Outreach Programmes to the students and professors. Types of standards developed under 15 technical divisions were elaborated randomly. Explained few products standards in various disciplines. Also about NEC & NBC, BIS website, Manakonline & the features of BIS Care App, Know your standards, download IS, finding the genuity of ISI Marked Product & HUID using the App. Discussed with the Principals of the institutions to include the topics of BIS in the academics to create good knowledge with respect of Quality, Indian Standards.

- ◆ Chaitanya Engineering College, Kommadi, Madhurawada, Visakhapatnam 10.02.2023 by Smt. Sujatha T, Sc- D and Joint Director.



- ◆ Baba Institute of Technology & Sciences, Visakhapatnam on 01.12.2022 by Smt. Sujatha T, Sc- D/ Joint Director



- ◆ K V S R Siddhartha Institute of Pharmaceutical Sciences, Vijayawada on 01.12.2022 by Shri MAJ Vinod, Scientist F/ Sr Director & Head.







## 6. QUALITY CONNECT PROGRAMMES

BIS initiated a Quality Connect Campaign for engaging with the consumers in direct connect mode. The campaign is undertaken through the network of youth volunteers, called the Manak Mitra. The Campaigns have been successful in engaging comprehensively with the household and share the information about BIS activities regarding the Quality, Standards marks. The following are the campaigns organised in the state of Andhra Pradesh.

1. **World Standards Day, 14<sup>th</sup> October 2022.**
2. **BIS Foundation Day, 06<sup>th</sup> January 2023**
3. **World Consumer Rights Day, 15<sup>th</sup> March 2023.**

The training programmes for the volunteers were also conducted for performing the campaign including the major activities, Verifying the genuineness of ISI Marked products & Hallmarking, with live demonstration of BIS Care App.

### **Quality Connect Programme 1.0 during the celebrations of World Standards Day, 14<sup>th</sup> October 2022**

There were around 100 volunteers engaged in this programme. The volunteers interacted with the households/public and have distributed publicity material like brochures having info on BIS, Mandatory certification, Standards marks, with demonstrating the features of BIS Care App. In this Quality Connect Programme, volunteers collected feedbacks from about 2815 households.

### **Quality Connect Programme 2.0 on the occasion of BIS Foundation Day, 06th January 2023**

The programme was organized & flagged on 06.01.2023 and ended on 16.01.2023. There were around 547 Manak Mitra registered with BIS to perform the programme. The total number of Households contacted during the campaign is 14228. The average ratings and comments received from households: 4.23. Number of Campaign launch Flagging off Programmes is at 3 different locations. These volunteers engaged from educational institutions like Prasad V Potluri Siddhartha Institute of Technology, Rahul Gandhi University Knowledge & Technologies and Kakarapati Bhavanarayana College.





### **Quality Connect Programme 3.0 on the occasion of World Consumer Rights Day, 14<sup>th</sup> March 2023:**

There are 823 volunteers registered from various academic institutions and organizations. These volunteers registered in the Quality Connect campaign are mostly from Academic institutions i.e., engineering colleges.

- a. Potluri V Prasad Siddhartha Institute of Technology, Vijayawada
- b. Chaitanya Engineering College, Visakhapatnam
- c. Baba Institute of Technology & Sciences, Visakhapatnam
- d. Rajiv Gandhi University of Knowledge & Technologies, Nuzvid
- e. Kakaraparti Bhava Narayana College (A), Vijayawada

The members of two Consumer Organisations namely Confederation of AP Consumer Organisations (CAPCO) and AP Federation of District Consumer Organisations (APFEDCO) are also actively involved. The strategies involved successful completion are providing the orientation programmes for the volunteers in the campaign explaining about the core activities of BIS, product certification, hallmarking along with the detailed demonstration on BIS Care mobile App.



The programme was organized & flagged from 14.03.2023 ended on 19.03.2023, with flag off 'launch events at different locations by the guests

- a. Prof Muthu Kumar EEE Dept at Potluri V Prasad Siddhartha Institute of Technology.
- b. Dr M Govinda Raju, Principal at Baba Institute of Technology & Sciences.



- c. Prof Ch. Padmaja, Head of the Dept & Vice Principal at Chaitanya Engineering College.
- d. Shri Marri Satyanarayana, Chairman, AP Federation of District Consumer Organisations at Visakhapatnam.

The engaged volunteers have actively participated in the campaign were interacted and collected feedback from 23587 households, the rating and comments received from households were 4.35. The volunteers have extended their services in different areas of 7 districts namely NTR, Krishna, Eluru, Visakhapatnam, Guntur, Anakapalli, and West Godavari.



### Nukkad Natak - The Street Play



The play was organized to spread awareness about BIS, Quality and Standards among the public and the passersby. It was performed by professional artists in prominent places in Vijayawada and Visakhapatnam.





## 7. QUALITY WALK 2022

A Quality Walk of 2km has been organized during the celebrations of World Standards Day, 2022. The event has been held at a prominent place M.G.Road, Vijayawada on 16.10.2023, Sunday.



The officials of BIS, students from various colleges, representatives, from consumer organisations, were involved in the success of the 2km Quality walk. The event was carried out by holding the placards & banners of BIS Activities & marks, about World Standards Day as to display to passerby public.





## PART 3

### STANDARDIZATION

#### 1. ACTION RESEARCH PROJECTS:

As Action Research Projects, the allotted Indian Standards are reviewed through discussions with the members of the technical committee, industries, testing laboratories and other stakeholders and technical proposal/ recommendations are given to the committee for implementation. The following Action Research Projects were undertaken by the officers of VJBO.

Shri M.A.J. VINOD, Scientist F & Head			
	Technical Committee	IS Number	IS Title
1	ETD 2	IS 4486: 1967	Recommended methods for the determination of the permittivity and dielectric dissipation factor of electrical insulating materials at power, audio and radio frequencies including metre wavelengths.
2	ETD 35	IS 4483 Part 1: 1968	Preferred panel cut-out dimensions for electrical relays: Part 1 flush mounting IDMTL relays.

Smt. T. SUJATHA, Scientist D			
	Technical Committee	IS Number	IS Title
1	LITD 6	IS 9938: 1981	Recommended colours for PVC insulation for LF wires and cables
2	LITD 7	IS 12429 Part 2: 1988	Time and control code for video tapde recorder: Part 2 Vertical- Interval Time Code (VITC)
3	LITD 7	IS 11456 Part 1: 1985	Conference systems: Part 1 general
4	LITD 7	IS 11456 Part 2: 1987	Conference systems: Part 2 Electrical requirements



Shri M. RAMAKANTH SAGAR, Scientist D			
	Technical Committee	IS Number	IS Title
1	MTD 6	IS 6418:1971	Specification for cast iron and malleable cast iron flanges for general engineering purposes
2	MTD 24	IS 1773:1982	Specification for electroplated coatings of brass (First Revision)
3	MTD 8	IS 4171:1983	Specification for copper rods and bars for general engineering purposes (First Revision)
4	MTD 4	IS 3975:1999	Low Carbon galvanized steel wire, formed wires and tapes for armouring of cables- Specification (Third Revision)
5	MTD 7	IS 740:1977	Specification for wrought aluminium and aluminium alloy rivet stock for general engineering purposes (Second Revision)

Shri SAI KUMAR VEDULA, Scientist D			
	Technical Committee	IS Number	IS Title
1	MTD 16	IS 3445: 1992	Forged Steel Rolls Specification
2	MTD 19	IS 6630: 1985	Specification for Seamless Ferritic Alloy Steel Pipes for High Temperature Steam Services
3	MTD 8	IS 12443: 1988	Specification for Rolled Brass Plates for General Engineering Purposes
4	MTD 8	IS 14811: 2000	Rolled Copper Plate, Sheet, Strip And Foils for General Engineering purposes

Shri K. RAJASEKHAR, Scientist D			
	Technical Committee	IS Number	IS Title
1	CHD 20	IS 348: 1968	Specification for french polish (First Revision)
2	CHD 5	IS 1880: 1977	Specification for zinc oxide and zinc salts for electroplating (First Revision)
3	CHD 1	IS 2449: 1963	Specification for silver oxide
4	CHD 20	IS 347: 1975	Specification for varnish, shellac, for general purposes (First Revision)



## 2. MANAK MANTHAN

BIS has initiated an interactive programme called “Manak Manthan” where, it serves as a platform for stakeholders can directly discuss on the recently formulated/revised/draft stage Indian Standards. The objective of the discussion was to take inputs from the manufacturers of related industry and discuss the provisions of Standards, with respect to the technical aspects. The stakeholders can exchange their ideas or comment on the draft of the Indian Standard in wide circulation. The outcome of the discussions were shared to the concerned technical committee for further action.

The Manak Manthan programmes which were organised during 2022-23 are as follows:

S No	Indian Standard(s)	Date of the Programme
1	IS 9841: 2022 Guide for Treatment and Disposal of Effluents of Fertilizer Industry	28-06-2022
2	IS 8008:2022 Injection Moulded/ Machined PE fittings for water supply and IS 8360:2022 Fabricated Polyethylene Fittings for Water Supply	27-07-2022
3	IS 2791:2022 Soluble Coffee Powder and IS 3309:2022 Soluble Coffee – Chicory Powder	26-08-2022
4	IS 17913: 2022 Yoga Centre - Service requirements	03-10-2022
5	Indian Standards for Paper Based Packaging Material for food items	07-11-2022
6	IS 17941: 2022 Hand pump cum Solar Pumping System	22-11-2022
7	IS 4824 : 2022 Bead Wires for Tyres- Specification	21-12-2022
8	IS 1110:2023 Ferro Silicon	31-01-2023
9	IS 1608 (Part 1):2022, ISO 6892-1:2019 Metallic Materials - Tensile Testing, Method of test at room temperature	16-03-2023

### DETAILS OF THE MANAK MANTHAN PROGRAMMES BY VJBO:

#### 1. IS 9841: 2022 Guide for Treatment and Disposal of Effluents of Fertilizer Industry

Shri Manish Goswami, Chief technical, The Fertilizers Association of India delivered detailed presentation on code of practise IS 9841:2022 i.e. Treatment and Disposal of Effluents of Fertilizer Industry. He described whole manufacturing process of Fertilizers industries such as Urea, Ammonia processing, NPK fertilizers and generation of waste water from different sources of the plant. He elaborated the significant changes in revision of standard such as different technical parameters and process for treatment of effluents, which were included in the revised code of practise with latest technological developments.

## **2. IS 8008:2022 Injection Moulded/ Machined PE fittings for water supply and IS 8360:2022 Fabricated Polyethylene Fittings for Water Supply**

Sh Prashanth Nikhade, Sr. Application Development Engineer – Infrastructure, Borouge India Pvt. delivered detailed presentation on major modifications made in IS 8008:2022 and IS 8360:2022 i.e. Part 1 to 9 are merged into one standard wrt IS 8008 and Part 1 to 3 are merged into one standard wrt IS 8360. He described whole manufacturing process of Polyethylene fittings such as Plain Joints, Angular Joins, Tees, Cross and bends etc and deriving wall thickness wrt Standard Dimension ratio, Sizes of the fittings were introduced till maximum sizes according to latest technologies of manufacturing and uses by the consumer. Reworking of the material also reduced from 10 percent to 5 percent. Derating factor and Type test Hydraulic test were introduced for the fittings. He elaborated the significant changes in revision of standard such as different technical parameters and process for manufacturing fittings which were included in the revised standards with latest technological developments.

## **3. IS 2791:2022 Soluble Coffee Powder and IS 3309:2022 Soluble Coffee – Chicory Powder**

Dr. Tiluttama Mudoi, Subject Matter Specialist– Analytical Laboratory, Coffee Quality Division, Coffee Board delivered detailed presentation on major modifications made in IS 2791:2022 and IS 3309:2022. He elaborated the significant changes in revision of the standard such as limit of total ash content, caffeine content and specifications for decaffeinated soluble coffee powder in line with the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011. Concerns were raised about the standard testing procedures for identification of coffee/Chicory ratios in any coffee Chicory products as there is a maximum permissible percentage of chicory (49) in any Coffee- Chicory blend. If there's no quantitative testing procedure to identify the ratios of coffee and chicory, business operators try to violate this point to make more profits and can lead possible food frauds. It was suggested to develop a quantitative testing procedure (similar ISO 11292 & AOAC 995.13 to determine adulteration of coffee with other fillers) to determine the ratios of these ingredients in each coffee- chicory product.

## **4. IS 17913: 2022 Yoga Centre - Service requirements**

Shri A Srinivas, SSD explained the Service Sector Division, the scope, terminology, physical environment & safety, resources of the Indian standard. He also briefed about the roles and responsibilities of the Yoga center's management for implementing statutory and regulatory requirements, operational requirements, educational qualification for Yoga wellness instructors, including administrative decisions.

## **5. Indian Standards for Paper Based Packaging Material for food items**

Sh K Rajasekhar, Sc-D & Joint Director presented about core activities of BIS & standards formulation, focused standards for paper-based packaging materials and usage of paper as sustainable alternatives for food packaging. Along with IS 17753:2021, he also explained about the importance of new standards & amendments.



## **6. IS 17941: 2022 Hand pump cum Solar Pumping System**

Sh Ajit Bhandari, MD, Span Pumps Pvt Ltd. gave a presentation on the newly implemented Indian Standard IS 17941: 2022 on Handpump Cum Solar Pumping System Specification. Some of the salient features of solar dual water pumping system, the major structural framework of this pumping system, Available variants of solar pump based on capacity are explained in the presentation.

## **7. IS 4824 : 2022 Bead Wires for Tyres- Specification**

Shri. Arun Pucchakayala, Scientist-D/Joint Director, MTD, BIS given the technical presentation on Bead wires for tyres- Specification IS 4824 : 2022. The chemical composition of the bead wire has been explained, like the carbon parameter, and the newly formed category of bead wires has been explained with respect to tensile strength. The braking and bending load tests, as well as the test methods for testing coating weight, were also explained.

## **8. IS 1110:2023 Ferro Silicon**

Shri G Ram Sai Kumar, Scientist-C, MTD, BIS Headquarters given the technical presentation on Ferrosilicon - Specification IS 1110: 2023. The participants were informed about the changes being incorporated in revised standards like a) Incorporation of all amendments b) Reference clause has been updated. c) In Table 1, substitution of  $\text{FeSi}_{73}\text{Al}_{20}\text{Ca}_{20}$  for  $\text{FeSi}_{73}\text{Al}_{2}\text{Ca}_2$ . d) Clause 8 has been modified to bring more clarity in this revision. e) Specifications for particle size analysis were included during this revision. f) Clause 12.2 BIS certification marking is added. • Ferro Silicon is a ferroalloy, an alloy of iron and silicon. It is usually produced in submerged arc furnaces by reduction of silica or quartz sand ( $\text{SiO}_2$ ) with coke in presence of iron and usually contains around 75 silicon. Its applications include deoxidizing steel and other ferrous alloys, making it a so-called master alloy in steel production. In terms of end-use, ferrosilicon is mainly used for the production of carbon & other alloy steels, stainless steel, cast iron, and electric steel. Moreover, there is growing demand in the semiconductor and Asian automotive industry for the alloy. • Further BIS has also granted License for various Ferroalloys like - “Ferronickel” as per IS 4409 and “Ferrosilicon Magnesium” as per IS 13164

## **9. IS 1608 (Part 1):2022, ISO 6892-1:2019 Metallic Materials- Tensile testing**

Shri Dushyant Hawelkar, Scientist-B, Metallurgical Engineering Department delivered the presentation about IS 1608/IS 6892 Metallic Materials- Tensile testing in which he explained about the scope, parts, principle, test methods & test reports of the standard. He also explained the major changes in the standard. The meeting ended with an “open house” section for clarifying the doubts of participants regarding revision of IS 1608/IS 6892 Metallic Materials- Tensile testing.

## PART 3

### 1. REWARDS AND RECOGNITIONS

#### SWACHHTA PAKHWADA

Vijayawada Branch office celebrated “Swachhata Pakhwada” as two campaigns

1. 02.10.2022 to 31.10.2022
2. 16.02.2023 to 28.02.2023

A number of activities, including essay writing competitions, slogan contests, and awareness to the students, a swachhta campaign were carried out at the premises of the Schools by students and teachers, cleaning & beautification of VJBO premises by office staff. Prizes were also distributed to the winners of the competitions in the presence of Head Masters of the concerned schools.







During the Special Campaign 2.0, the Ministry of Consumer Affairs, Food, and Public Distribution; Government of India awarded the All India third rank to BIS, Vijayawada.



### **EFFICIENCY INDEX:**

The top management of BIS in order to keep the efficiency of the working of BIS to the utmost level has introduced the Efficiency Index ranking for its branches. The efficiency index is calculated based on the timely disposal of applications for grant of licence and change in scope of the licence.

**VJBO is consistently ranked as no.1 branch in the efficiency index among all the branches of BIS.**

## 2. CASE STUDY

Indigenization of High Alumina Refractory Cement manufacture



### Indigenization of High Alumina Refractory Cement manufacture -VJBO Contribution

### Imported → Make in India

-The Exodus

#### Background:

- High Alumina Refractory Cement was being imported to India from countries like China, Netherlands and Republic of Korea without BIS certification.



- Metallurgical Technical Department in the year 2011 published an Indian Standard, IS 15895: 2011 – High Alumina Refractory Cement, which was subsequently revised in 2018.
- All Cement products come under Cement (Quality Control) Order, 2003 issued by Central Government on 17<sup>th</sup> February 2003.
- Although this product is a cement, there were no BIS licences for this product in India and abroad.
- In the year 2020, Sh. Pramod Kumar Tiwari, IAS, DG:BIS decided to post one officer at all major ports of India to work in close coordination with Indian customs. The main purpose was to ensure implementation of QCOs and Quality checks by sampling of BIS certified products of all imports.
- Accordingly, Shri K. Raja Sekhar, Sc-D was posted in Visakhapatnam Port Trust.
- A consignment of High Alumina Refractory Cement was received from China without BIS Certification. The BIS official pointed out this violation by the importer to the customs officials.
- However, the importers argued with BIS and Customs officials to continue to allow the imports without BIS Certification as:



- g This product does not come under Cement (Quality Control) Order, 2003 as it is not explicitly listed in the definitions of said order.
- g This product without BIS certification is being imported in the country more than 15 years.
- g This product is not a cement as it is not formulated by Cement and Concrete sectional committee of Civil Engineering Department.
- g This product is not in the list of Products under mandatory certification in BIS website.
- v Many interactions happened with customs officials and importers, and they were informed about BIS certification. The consignment was stopped by Customs. However, Hon'ble High Court of AP issued orders to release the consignment to importers.
- v Shri MAJ Vinod, Sc-E & Head VJBO interacted with Shri AR. Unnikrishnan, Head CMD-1 and BIS legal department to appeal in Supreme Court. Accordingly, case is filed.

### **Standards Promotional Activity**

- v Meanwhile, Head VJBO interacted with all the importers of High Alumina Refractory Cement in the state of Andhra Pradesh.
- v During this interaction it was understood M/s. Kerneos India Aluminate Technologies Pvt Ltd is having manufacturing facilities for this product.
- v Accordingly, Head VJBO guided them to apply for BIS licence and provided all necessary assistance.
- v The All India First application was received from M/s. Kerneos India Aluminate Technologies Pvt Ltd. for the product High Alumina Refractory Cement as per IS 15895:2018 on 09<sup>th</sup> August 2021. The licence was granted on 21<sup>st</sup> December 2021.

### **Tangible Benefits:**

- v ITSD includes IS 15895- High Alumina Refractory Cement in the list of Products under Compulsory Certification in BIS website.
- v From the consignment list uploaded in manakonline by the licensee, it is seen that the licensee is supplying cement to all the manufacturers of refractories who were earlier importing this product.
- v Enquiry from Vizag customs shows that the import of High Alumina Refractory Cement is almost negligible.

**The imports of High Alumina Refractory Cement have been stopped and domestic manufacturer is supplying BIS certified High Alumina Refractory Cement to all the manufacturers of refractories in India due to the above mentioned activity of VJBO.**

## HELPDESK FOR e-BIS PORTAL

Please call on the following helpline no.  
Monday to Friday(except gazetted holidays) 09:00 A.M - 05:30 P.M

HALLMARKING	+91 7669089323
PRODUCT CERTIFICATION	+91 7669089326
CRS	+91 7669089324/ +91 7669089325/ +91 11 23230856

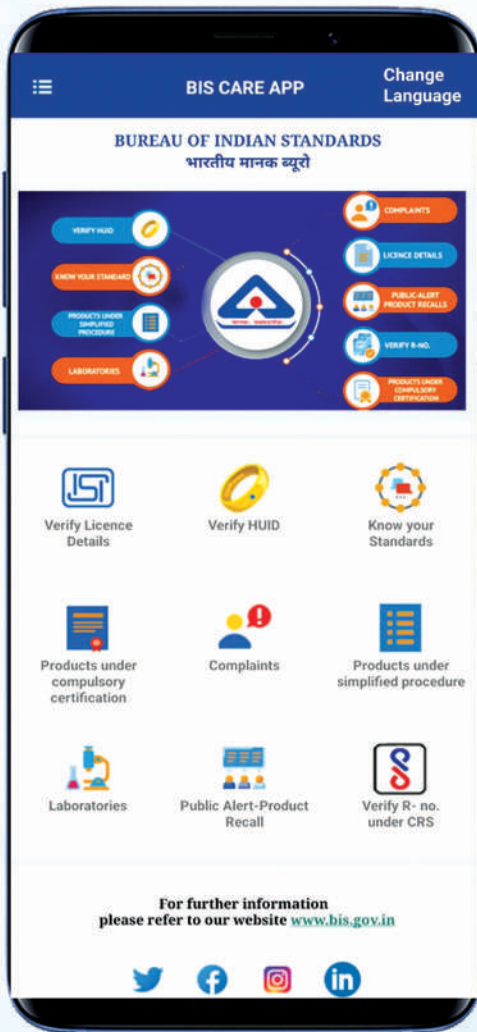


## APPLY FOR LICENSE

S.No	Steps to be followed
1.	Application process starts with identification of Indian Standard against the product for which license is desired.
2.	Indian Standard against a product can be searched and downloaded from the URL
3.	Once the standard is identified the manufacturers are requested to analyse and document the requisite manufacturing infrastructure, appropriate process controls, quality control and testing capabilities for the product as per relevant Indian Standard (ISS)
4.	For guidance of manufacturers, BIS has developed product specific technical manuals which can be accessed form the URL
5.	The Bureau grants the licence based on successful assessment of the manufacturing infrastructure, process controls, quality control and testing capabilities of the manufacturer through a visit to its manufacturing premises and Conformity of the product to the relevant standard(s) is also established through third party laboratory testing or testing in the manufacturing premises or a combination of both.
6.	There are two options available for obtaining BIS product certification licence under Scheme – I. For details, please see Guidelines for grant of licence URL
7.	Please refer to the URL
8.	To know about details of fee (application, inspection & annual license fee). Product specific Marking Fees can be also be searched from the URL
9.	The applications are accepted only through online mode including all payments. To submit your application, please visit our online portal, <a href="http://www.manakonline.in">www.manakonline.in</a> .
10.	For any further queries or clarification you may also contact our ROs/BOs






# BIS CARE APP - CONSUMER EMPOWERMENT TOOL



## Download BIS Care App

- Go to Google play store/Apple app store
- Install BIS Care App

## FEATURES OF BIS CARE APP

- Check the authenticity of the Product with  mark by using 'Verify Licence Details'
- Check the authenticity of Hallmarked Jewellery item with HUID number  by using 'Verify HUID'
- Select 'Know your Standards' for information on any Indian Standard, Licenses against it and laboratories for that product.
- Get locations of BIS labs and Offices.
- Check the authenticity of electronic products with R-Number  by using 'Verify R-Number under CRS'
- Register complaints regarding quality of Product of misuse of BIS standard marks by using 'Complaints'
- You can also access products under compulsory certification of BIS & Products under simplified procedure of licensing.



# BUREAU OF INDIAN STANDARDS

Ministry of Consumer Affairs, Food and Public Distribution

Government of India

Vijayawada Branch Office

[www.bis.gov.in](http://www.bis.gov.in) & [www.manakonline.in](http://www.manakonline.in) E-mail : [vjbobis@bis.gov.in](mailto:vjbobis@bis.gov.in)



Standard Mark



Management System Mark



Eco Mark



Registration Mark



Hallmark

Let's Stand for  
**Standards**

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Andhra Pradesh.

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