

**For BIS Use ONLY**

**AGENDA**

|  |  |  |  |
| --- | --- | --- | --- |
| **MEETING** | **DAY & DATE** | **TIME** | **VENUE** |
| **T****wenty-seventh meeting of Handpumps Sectional Committee, MED 27** | **Friday,**  **20 September 2024** | **1030 hr onwards** | **Video Conferencing through WEBEX** |

**CHAIRPERSON:** Shri G. Shanmuganathan, Chairperson, In Personal Capacity, Chennai.

**MEMBER SECRETARY**: Miss Neha Thakur, Scientist ‘C’/Deputy Director, BIS, New Delhi.

**Item 0 WELCOME AND OPENING REMARKS**

* 1. Welcome & Opening remarks by Head (MED), BIS

**0.2** Welcome & Opening remarks by Chairperson.

**Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING**

The minutes of the 26th meeting of Handpumps Sectional Committee, MED 27 held on 25 June 2024 through Virtual mode was circulated vide email bearing reference MED 27 dated 08 July 2024. The last date comment was 23 July 2024.

No comment has been received on the minutes of the meeting.

The Committee may **CONSIDER** and **CONFIRM** the Minutes of the meeting**.**

**Item 2 SCOPE AND COMPOSITION OF COMMITTEE**

**2.1 SCOPE**

Formulation of standards on components, equipment and code of practice for different types of handpumps and manually operated pumps.

The Committee may **NOTE**.

**2.2 COMPOSITION OF THE SECTIONAL COMMITTEE AND ITS SUB-COMMITEES**

**2.2.1** The present composition of Handpumps Sectional Committee, MED 27 as last reviewed is given at **Annex-1***.*

**2.2.2** The following directions have been received from the Competent Authority of the Bureau for reviewing the composition of the Sectional Committee:

1. New members are to be co-opted who are expected to contribute to emerging new technology.
2. Efforts should be made to include representatives of different product segments as per the scope of the Committee.
3. Major Government purchasing organisations like DGS&D, RDSO, CPWD, Defence etc. are to be given representation in the Committees wherever applicable.

**2.2.3** With reference to the BIS office order ref. no.: PNC09/18/2023-PNC-BIS dated 06 September 2023, all members of Technical Committees have to sign and sent back the declaration (attached here), mandatorily.



Committee members are kindly requested to provide the signed declaration as above to BIS.

**2.2.4** Committee is referred to letter ref. no. PNC09/18/2023-PNC-BIS dated 09 November 2023 by DG BIS (attached here).

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**2.2.5** Extracts from the Standards Formulation Manual of BIS regarding the guidelines for participation in the technical committee work of BIS are given in **Annex 2.**

**2.2.6** As per the BIS guidelines, committees should represent all interest groups such as organized consumers/users, industry, technologists and regulatory bodies/NGOs, etc. However, consumer interests shall as far as possible predominate. Where non-industry interests are less than 2/3, it may be reviewed. Stakeholders such as manufacturers/service providers as well as consumer activists should as far as possible represent industries association and organizations and not individual companies. Also, it may be desirable to induct and involve new people in the work of Sectional Committees with an aim to infuse fresh ideas and it is suggested that member organizations may like to keep this aspect in view while nominating their representations in the technical committees.

Also, the Committee may **IDENTIFY** and **INVOLVE** talent available in the country related to the subject of the Committee and also **suggest a methodology** to involve them in the proceedings of the Committee.

Recently towards encouraging the participation of young professionals representing the member organizations on the Committee, it was decided by BIS that an additional member up to the age of 37 years may also be nominated by each organization.

**2.2.7 Gender Responsive Standards Initiative**

Bureau of Indian Standards is a signatory to the UNECE Gender Responsive Standards Declaration. The UNECE Gender Responsive Standards Initiative aims to provide a practical framework for standards bodies seeking to make the standards they develop, and the standards development process they follow, gender-responsive. Established in 2016, the Initiative has the objectives of:

(i) strengthening the use of standards and technical regulations as powerful tools to attain SDG 5 (Achieve Gender Equality and Empower all Women and Girls);

(ii) integrating a gender lens in the development of both standards and technical regulations; and

(iii) elaborating gender indicators and criteria that could be used in standards development.

In line with these objectives, BIS aims to work towards:

* Gender-responsive standards;
* Gender balance at all levels in all Committees including leadership positions;
* Enhanced expertise to create and deliver gender inclusivity;

The Committees is **REQUESTED** to work in tandem with these aims to create a gender balanced environment in all walks of life through standards.

**2.2.8 Requests for Nomination to Committee/ Sub-Committee/ Panel/ Working group**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Item\*** | **Committee decision during 26th Meeting** | **Present Status** |
|  | **Item 2.2.8, Sl No. 1** | The Committee requested MS to inform the status in the next meeting.  Background  Letter of fresh nomination has been sent to both depts. Gramin (Rural) and Nagar (Urban) of U. P. Jal Nigam, Lucknow vide speed post dated 07 June 2024. | No response has been received.  Committee may **DECIDE**. |
|  | **Item 2.2.8, Sl No. 2** | The Committee requested MS to inform the status in the next meeting.  Background  Letter of fresh nomination has been sent to MNRE, New Delhi vide speed post dated 07 June 2024. | No response has been received.  Committee may **DECIDE**. |
|  | **Item 2.2.8, Sl No. 3** | The Committee requested MS to inform the status in the next meeting.  Background  Letter of fresh nomination has been sent to Quality Marking & Testing Laboratory, Indore vide speed post dated 07 June 2024. | No response has been received.  Committee may **DECIDE**. |
|  | **Item 2.2.8, Sl No. 4** | Chairperson agreed to provide the details of concerned official of State Panchayati Raj Department or concerned departments of Tamil Nadu and Karnataka.  On receipt of details, the Committee requested MS to send the co-option letter to the departments. | The contact details are awaited.  Committee may **CONSIDER** and **DECIDE**. |

The committee may **REVIEW**the composition in order to have focused representation as per **2.2.1 to** **2.2.8** of the Agenda.

**Item 3** **ANNUAL CALENDAR AND** **PROCESS OF STANDARDISATION**

1. **Annual Calendar** for Technical Committee meetings

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Technical Committee** | **1st Quarter** | **2nd Quarter** | **3rd Quarter** | **4th Quarter** |
| **MED 27** | **25 Jun 2024** | **20 Sep 2024** | **10 Dec 2024** | **05 Mar 2025** |

1. **Research & Development Projects**

Bureau of Indian Standards (BIS), as the National Standards Body of India is responsible for formulating Indian Standards for products, processes and services. In the pursuit of this endeavour, it has so far developed more than 22000 Indian Standards. Action Research and Research & Development Projects have always been part of the standardization process. However, there has been a growing realization in the context of the increasing diversification, innovation and complexities in the manufacturing sector and evolution of services and also due to the fast pace of changes in the manufacturing and services landscapes, research & development projects have to be made an integral part of the standardization process. The idea is that in principle no standard should be developed without intensive and insightful research work, which is not confined only to the review of the existing literature and focus group discussions on the subject chosen for standardization, but also covers the detailed field level study of the existing processes and practices in product manufacturing and service delivery. This requires a large network of domain area experts to carry out the research & development work. The existing network encompasses only a small segment of experts, who are either associated with technical committees as members or belong to some R&D organizations. The Memorandum of Understanding with the premier educational institutions imparting technical and professional education opens the window to the opportunities to expand this network substantially by utilizing the intellectual capital that resides with the faculty and the research scholars in these institutions. This association is conceived not only as a way to promote research & development work necessary for standards formulation but also to enrich the research ecosystem in these educational institutions.

BIS has revised its R&D Guidelines and is attached here for reference.



*The Committee may please note.*

1. **National and International events** to be participated

BIS has envisaged participation in events organized at national and international level as these events showcases the latest trends in the field of standardization and technological advancements.

Considering the importance of these events, committee may please **suggest** other such event where participation of BIS can benefit development of national standards.

1. **Scientific journals and periodicals** to be subscribed

BIS has taken a new initiative to subscribe to scientific journal and periodicals relevant to committee work. It is also envisaged that relevant articles from these journal and periodicals are shared with members of sectional committee.

Committee members may please **suggest** other important journals and magazines that may benefit this committee.

1. Creation of **pool of experts**

As part of its initiative to develop a pool of experts for standardization activities, BIS has established standardization chairs in technical institutes of national repute, including IITs, NITs, and others. In addition, BIS plans to establish standardization cells in various manufacturer's associations to further this effort. By tapping into the knowledge and skills available in the country, this initiative can assist BIS in developing more effective and technically sound standards. This approach can also ensure that technical experts are linked with the National Standards Body to foster a high-quality ecosystem in India.

**Item 4 ACTION ARISING OUT OF THE PREVIOUS MEETING(S)**

**4.1** The summary of actions taken on the minutes of the last meeting and present status are given below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Item\*** | **Committee decision during 26th Meeting** | **Present Status** |
|  | **Item 4.1, Sl No. 1** | Shri Vishwas Joshi informed that he has sent the report to MED on 25 June 2024. He presented the report to the members (*see* Annex-3). He also requested members to review the recommendations in the report in detail.  The Convener also informed that similar trials have already been done in Rangareddy district of Telangana using upvc pipes, coupler and joints for Static Water Level (SWL) around 40 meters.  In view of the above, the Committee deliberated that trial results are applicable for SWL upto 40 meters. So, it requested the following manufacturers to provide the material details, designs, drawings, etc. to MS:  1. M/s SPAN pumps;  2. M/s Ajay Industrial Corporation;  3. M/s Apex International; and  4. M/s Meera & Ceiko Pumps.  The Committee requested the panel to prepare a preliminary draft as per the above, by the next meeting. In parallel, the Committee decided to run the field trails for UPVC pipes at SWL above 40 meters. | M/s SPAN pumps has provided the material details, designs, drawings, etc. on 10 September 2024. The material details from M/s Ajay Industrial Corporation, M/s Apex International; and M/s Meera & Ceiko Pumps are awaited.  The panel may also finalize its next meeting date for the preliminary draft discussion.  Committee may **CONSIDER** and **DECIDE**. |
|  | **Item 4.1, Sl No. 5** | **MED/27/24771 Amendment – 1 to Handpump cum Solar Pumping System - Specifications**  The draft amendment is under Wide circulation. Last date of comments is 04 March 2024. | The draft amendment no.1 is under printing.  Committee may **NOTE**. |
|  | **Item 5.2, Sl No.2 and Item 5.3** | **Draft Amendment – 2 to Handpump cum Solar Pumping System - Specifications**  MS informed that no comment have been received on the P-draft. So, the Committee deliberated and decided to put the draft under wide circulation for two month time. If no comment is received, the Committee approved the draft for printing. | The draft amendment no.2 (MED 27/26469) is under Wide circulation. Last date of comments  is 03 November 2024.  The Committee may **NOTE**. |
|  | **Item 4.1, Sl No. 2** | **MED/27/21897** Direct action hand pumps – Specification (Second revision)  Committee noted the information that document is under printing. | The standard has been published. The complimentary copy has been circulated vide email dated 17 September 2024.  Committee may **NOTE**. |
|  | **-** | **-** | Following comment on IS 15500:2021 has been received from Vinay Pumps India Pvt. Ltd. vide email dated 02 August 2024:    Committee may **CONSIDER** and **DECIDE**. |

**\*** *The Item number refers to the proceedings of the last meeting of MED 27.*

**ITEM 5** **COMMENTS ON PUBLISHED STANDARDS**

**5.1** Comments received from Shri Ravi Prakash Singh on IS 17941:2022 and following is the summary of actions on pending comment points.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl**  **No.** | **Clause/Sub clause/**  **para/table/fig.**  **No. commented** | **Proposed Change** | **Justification** | **Committee decision during the 26th meeting** | **Present Status** |
|  | Clause 10.1 | Submersible pump, solar panels and pump controller models shall be type tested as per IS17429 in NABL accredited lab or NISE (National Institute of Solar Energy). | IS 17429 is already available for testing of the solar pumping system, therefore it should be tested as per IS 17429 not as per other standards. | Shri Narendra Purankar informed that IS 17429:2020 is alright for testing of solar pumping system which are referred in IS 17941:2022.  The Committee deliberated and requested testing labs i.e. MSME Kolkata and MSME Coimbatore to review whether IS 17429:2020 is suitable for testing of solar pumping systems which are referred in IS 17941:2022.  It requested labs to provide the update by the next meeting. | Following reply has been received from MSME, New Delhi vide email dated 11 Sep 2024:  ‘It is to kindly inform you that since MSME-TC, Kolkata does not have any testing facilities as well as Testing Exposure of Expertise on to comment  whether IS 17429:2020 is suitable for testing of  solar pumping systems which are referred in IS 17941:2022.    Therefore it is humbly requested that the job may please be assigned to any expert of that particular field.’  Committee may **CONSIDER** and **DECIDE**. |

**5.2** Comments received on IS 17941:2022 during Manak Manthan in BPBO, BIS in September 2023.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl**  **No.** | **Clause/Sub clause/**  **para/table/fig.**  **No. commented** | **Comment** | **Committee decision during the 26th meeting** | **Present Status** |
|  | |  |  | | --- | --- | | Cl. 6.10.3 |  | | In this standard only one type of Submersible cable conforming to IS 694 is mentioned, but in IS 17018 (Part 1) for Solar Photovoltaic Water Pumping System, IS 694 or IS 9968 (Part 1) is mentioned for cables. Therefore, IS 9968 (Part 1) should be added in this standard. | Shri Dharmaselvan of MSME Coimbatore informed that IS 9968(Part 1) is better than IS 694 in terms of water resistance and high temperature withstand properties. He also informed that this type of material is readily available in the market.  The Committee after detailed deliberation decided to include IS 9968 (Part 1) for the conformance of cables. It decided to wide circulate the draft for one month time. If no comment is received, the Committee approved the draft for printing. | The draft amendment no.3 to IS 17941:2022 is under preparation. |

**ITEM 6 PROGRAMME OF WORK**

The present position of work programme under the Committee MED 27 is attached.



The Committee may **NOTE**.

**ITEM 7 ROLLING ANNUAL ACTION PLAN OF 2024-2025**

**7.1 Standard under Five year Review– Carried Forward**

As on on-going activity, Sectional Committee reviews the Indian Standards formulated by it at an interval of five years from the date of publication. Following is the list of standards reviewed during the last year but pending for publication.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl No.** | **IS Number** | **IS Title** | **Reaffirmation due month** | **Decision by Committee in the last meeting, if any** | **Status** |
| 1. | IS 14106 : 2018 | Direct action hand pumps - Specification (First Revision) | September 2023 | Vide Item 4.1, Sl No. 4 | Vide Item 4.1, Sl No. 4 |

***\**** *Item number refers to the proceedings of the last meeting of* ***MED 27****.*

**7.2 Standard under Five year Review – due for 2024-2025**

As on on-going activity, Sectional Committee reviews the Indian Standards formulated by it at an interval of five years from the date of publication. Following is the list of standards pending to be reviewed for this year.

- This year, no standard is pending for review under MED 27 under five year review scheme.

**ITEM 8 NEW SUBJECTS**

As per the policy and guidelines, before any new subject is taken up for formulation of National Standard the following issues are to be examined by BIS.

1. Whether the subject is financed by the proposer;
2. Sale ability of the standard;
3. Standards shall be user friendly;and
4. Social needs with regards to safety, health and environment.

Only after assessing the above aspects, it will be possible for BIS to consider the formulation of Indian standard. The proposal should essentially be taken in the below prescribed Performa, as preliminary work item*.* When members propose in the Technical Committee (TC) meeting, they have to fill-in the Performa beforehand which is then be considered by the TC.



The Committee may **DELIBERATE** and **DECIDE**.

**ITEM 9 STATUS OF INDIAN STANDARDS**

**9.1 BIS Domestic Licences**

|  |  |  |
| --- | --- | --- |
| **IS No.** | **PRODUCT** | **No. of**  **BIS LICENCES** |
| IS 8035 : 2022 | Handpump – Shallow well | 01 |
| IS 14106 : 2018 | Direct action Handpump | 01 |
| IS 15500 (Part 2) : 2021 | Deepwell handpumps, components and special tools – Specification: Part 2 Handpumps | 51 |
| IS 15500 (Part 3) : 2021 | Deepwell handpumps, components and special tools – Specification: Part 3 Handpump sub-assemblies | 20 |
| IS 15500 (Part 4) : 2021 | Deepwell handpumps, components and special tools – Specification: Part 4 Steel components | 31 |
| IS 15500 (Part 5) : 2021 | Deepwell handpumps, components and special tools – Specification: Part 5 Cast iron components | 30 |
| IS 15500 (Part 6) : 2021 | Deepwell handpumps, components and special tools – Specification: Part 6 Brass/Bronze components | 31 |
| IS 15500 (Part 7) : 2021 | Deepwell handpumps, components and special tools – Specification: Part 7 Rubber components | 20 |
| IS 17941 : 2022 | Handpump cum Solar Pumping System - Specifications | 00 |
| **Total** | | **185** |

The Committee may **NOTE**.

**ITEM 10 INTERNATIONAL ACTIVITIES**

Effective participation in ISO activities is crucial for our nation as we have a significant stake in international trade and ISO standards. Therefore, it is essential that the committee participates effectively and thoroughly examines ISO ballots with respect to their relevance. If the ballot is relevant to us, the committee should nominate experts to represent our nation in ISO meetings. This will help to ensure that our national interests are well-represented and safeguarded in the international arena.

**ITEM 11 RECOMMENDATION OF THE PLANNING AND DEVELOPMENT ADVISORY COMMITTEE (PDAC) OF BUREAU OF INDIAN STANDARDS**

The Planning and Development Advisory Committee (PDAC) of Bureau of Indian Standards in its 12th meeting decided as follows:

a) Technical Committee should be sensitized for Eco requirements and standards should be formulated considering the environmental aspects.

b) The committee felt that BIS should be proactively involved so as to have greater impact in International Standardization. For this purpose, the key areas are to be identified for formulating standards for new products.

The Committee may please note.

**ITEM 12 TRANSLATION OF INDIAN STANDARDS FROM ENGLISH TO HINDI**

As per directive issued by ‘Raj Bhasha Vibhag’ to the Bureau “hence forth all new standards (or standards to be revised) are to be published both in Hindi and English simultaneously.”

Whereas a panel for Hindi translation has been identified by Hindi Deptt. of the Bureau however, the members of the technical committees of BIS may undertake translation of Indian standards from English to Hindi. Remuneration of Rs.250/- per A-4 size page (approximately 300 words) is provided for the translation. The members who are interested to do this work of translation can register their name with BIS, details available at: <http://www.bis.org.in/other/EOIHT.htm>

The Committee may **NOTE**.

**ITEM 13 E-SALE OF INDIAN STANDARDS**

The Bureau has made all the indigenous standards free of cost. The adopted standards can be either purchased from the sales office of BIS or through BIS website. Please follow the link to **register and download** the indigenous standards: <https://standardsbis.bsbedge.com/>

Please visit our website [www.bis.org.in](http://www.bis.org.in/) for more details.

The Committee may **NOTE**.

**ITEM 14 DATE AND PLACE FOR THE NEXT MEETING**

**ITEM 15 ANY OTHER BUSINESS**

**ANNEX-1**

(*See Item* **2.2.1**)

**COMPOSITION OF HANDPUMPS SECTIONAL COMMITTEE, MED 27**

|  |  |  |
| --- | --- | --- |
| **26th** | **25-Jun-2024** | **Webex, New Delhi** |
| **25th** | **06-Feb-2024** | **Hybrid/ BIS Pune** |
| **24th** | **04-Aug-2023** | **Webex, New Delhi** |
| **23rd** | **10-Feb-2023** | **Webex, New Delhi** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl No.** | **Organisation Represented** | **Principal Member/Alternate Member** | **23rd** | **24th** | **25th** | **26th** | **Total** |
|  | In Personal Capacity, Chennai | Shri G. Shanmuganathan  (*Chairperson*) | Y | Y | N | Y | 3/4 |
|  | Ajay Industrial Corporation, Ghaziabad | Shri Akhil Jain  Shri Shiwanand Tiwari (Alt) | Y | Y | Y | Y | 4/4 |
|  | AOV International, Noida | Shri K. L. Verma  Shri Vishal Kapoor (Alt) | Y | N | N | N | 1/4 |
|  | Apex International | Shri Lalit Khanna  Shri Sanchit Khanna (Alt) | Y | Y | Y | Y | 4/4 |
|  | Directorate of Groundwater Survey & Development Agency(GSDA), Nagpur | Shri H. S. Dhokale  Shri N.L. Lonkar (Alt) | Y | Y | Y | N | 3/4 |
|  | [Government of Telangana, Mission Bhageeratha (RWSKS) Department](about:blank), Telangana | Shri Narendar Reddy  Shri Thaviti Rajaiah (Alt) | Y | Y | N | Y | 3/4 |
|  | Meera & Ceiko Pumps Pvt. Ltd, Secunderabad, Hyderabad | Shri Mahesh K. Desai  Shri M. Mahender Kumar (Alt) | Y | Y | Y | Y | 4/4 |
|  | Office of The Development Commissioner (MSME), New Delhi | Shri Sunil Kumar  Shri Suvankar Santra (Alt) | N | Y | Y | Y | 3/4 |
|  | Ori-Plast Limited, Bhubaneswar | Shri Somnath Mukherjee  Shri Surjit Kumar Satpathy (Alt) | Y | Y | Y | Y | 4/4 |
|  | Public Health Engineering Department, Bhopal, Govt. of Madhya Pradesh | Shri Ashok Baghel  Shri Anurag Shrivastava (Alt) | Y | Y | N | N | 2/4 |
|  | Public Health Engineering, Jaipur, Govt. of Rajasthan | Shri Kishor Kachhawa | Y | Y | Y | N | 3/4 |
|  | [Rural Water Supply and Sanitation Department, Vijayawada Govt. of Andhra Pradesh](about:blank) | Shri B. Hare Ram Naik  Shri B. Sreekant | N | N | Y | N | 1/4 |
|  | SGS India Ltd., Mumbai | Lt Col Parmeswar Nai  Shri Arun Gaur (Alt) | N | N | Y | Y | **2/4** |
|  | Span Pumps Pvt. Ltd., Pune | Shri Ajit Bhandari  Shri Narendra Purankar (Alt) | Y | Y | Y | Y | 4/4 |
|  | United Nation Children's Fund, New Delhi | Shri Manish Wasuja | Y | Y | N | Y | 3/4 |
|  | U. P. Jal Nigam, Lucknow | Chief Engineer  Material Manager (Alt) | N | **N** | **N** | **N** | **0/4** |
|  | In Personal Capacity | Shri Nirmal Chittora | Y | Y | N | Y | 3/4 |
|  | In Personal Capacity | Shri Vishwas Joshi | NA | Y | Y | Y | 3/3 |

**ANNEX 2**

(Item **2.2.5**)

**EXTRACTS ON GUIDELINES FOR PARTICIPATION IN THE TECHNICAL COMMITTEE WORK OF BIS**

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| --- |
| * Where an organization offered representation in BIS work feels that it has limited interests in the scope of activity of a committee it shall communicate so to the committee secretary before accepting the representation. * All organizations represented in a technical work of BIS I shall be conscious of the national role they play in the preparation of standards. They shall nominate the best available ta1.ent for this work and ensure that their nominees are fully briefed, and utilize all opportunity to express their organization’s view point in the Bureau forums. For continuity of participation, it shall be ensured that representatives once nominated are continued as long as possible and changes where inevitable are proceeded smoothly and shall be communicated to Secretary without delay. * Organizations participating in the technical work of the Bureau may also consider initiating wherever possible formal standardization activity within the organization that would amongst other things aid participation and act as permanent liaison with Bureau on all standardization matters and shall coordinate adoption and implementation of national standards. * Organizations 'representing the interests of a group/association/federation may ensure that all constituent members (whose interest he/she represent) are consulted/kept informed of the committee work. * All expenses related to the nominees for participating in this activity are to be borne by the participating organizations. * Authorities nominating representatives as members of Sectional Committee of the Bureau, if they so choose, may nominate two representatives one to be known as the principal and the other as the alternate, subject to the following:   + Generally, one representative shall attend the meeting but if this department or body so desired both the principal and alternate may attend the meeting.   + Only the principal representative shall have the right to vote.   + In the absence of the principal representative, the alternate may exercise the right to vote.   + All documents concerned with the work of the technical committee shall ordinarily be sent to the Principal representative, if both principal and alternate representatives are located at the same station. However, if principal and alternate representatives are from different stations, all documents shall be sent to both the representatives.   + Organizations may, if they so choose, nominate experts by designation instead of by name.   + In exceptional circumstances where a case in made out on the basis of regional representation or representation of special interests within any organization, more than one alternative may be accepted by the officer-in charge of the Division.   + Only the designated Principal/Alternate members can attend Sectional Committee meetings. In case of their absence, their representatives can attend the meetings. However, BIS should be given prior intimation in such cases. In any case, no more than two representatives from one organization can attend the committee meetings. * Comments on documents at any stage, as well as on printed Indian Standards, though are welcome at all times, members are requested to send them well in advance for inclusion in the agenda in order to consider them in the meeting. Comments received very late or brought along for tabling during the meeting will be liable not to be considered as other members have not had the opportunity to deliberate within their organization on these comments and form their viewpoint and are unable to put forth their views at a short notice. * In case there is continual failure to contribute either through correspondence or by attending meetings for a period of three years/three technical Committee meetings by the members, the membership of such organizations will be recommended for withdrawal. |

**ANNEX 3**

**Composition of Panel-1**

Panel-1 consisting of the following:

i) Shri Vishwas Joshi, *Convener*;

ii) Shri N D Purankar;

iii) Shri Lalit Khanna;

iv) Representative from GSDA;

v) Representative from PHED, Rajasthan;

vi) Representative from Ajay Industrial Corporation, Sahibabad;

vii) Shri Mahesh Desai;

viii) Representative from Vishal Pipes, Sikandrabad; and

ix) Representative from M/s Ori-Plast Limited.