

**Minutes of the Technology and Finance Standing Committee (TFSC) Meeting held on 10<sup>th</sup> August, 2020 at 3:30 P.M. (Via Video Conference) in the Ministry of Environment Forest & Climate Change, Jor Bagh, New Delhi – 110003 under the Chairmanship of Shri Abhay Bakre, Director General, Bureau of Energy Efficiency.**

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The Meeting of the Technology and Finance Standing Committee (TFSC) was held on 10<sup>th</sup> August at 3:30 P.M. under the Chairmanship of Shri Abhay Bakre, Director General, Bureau of Energy Efficiency via video conference as physical meeting was not possible due to the pandemic COVID-19 The list of participants is attached at **Annexure-I**.

2. The Chairman welcomed the participants. A brief about the fiscal incentive scheme and the Implementation frame work for the Montreal Protocol frame work was given.
3. The Committee was briefed about fiscal incentive scheme which was operating under notification of the Department of Revenue, Ministry of Finance, on providing fiscal incentives for conversion from Ozone Depleting Substance (ODS) to non-ODS technology. The last amendment to the notification was made in 2017. Vide the notification Customs Duty exemption is provided to non-ODS technologies.

The relevant extract to the notification is quoted below

"Goods required for,-

- a) The substitution of Ozone Depleting Substance (ODS);
- b) The setting up of new capacity with non-ODS technology.

Explanation – "Goods", for the purpose of this entry means goods which are designed exclusively for non-ODS technology".

4. It was informed to the participants that project proposals for availing the fiscal incentive scheme are appraised by the TFSC and upon appraisal recommended to the Empowered Steering Committee (ESC) chaired by Secretary EF&CC for approval for exemption of Custom duty. The Chairman briefed the Committee that the role of the Committee is to undertake the necessary due diligence in appraising the projects.

5. The Agenda was considered ad seriatim. The annotated agenda and agenda papers were earlier circulated to all the members. The Chairman requested the Committee members to examine the case on whether the technology proposed in non-ODS technology and whether the proposed equipment's for which the company has applied for customs duty exemptions are required for such a change over or not.

6. Minutes of the TFSC meeting held on 15<sup>th</sup> October, 2019 were circulated to all the Members of the Committee. Since, no comments have been received, the Minutes were adopted.

7. The Committee was presented the action taken with respect to the decisions taken in the last meeting. The Committee was informed that reference had been sent to (i) IA Division of the Ministry with respect to the requirement of Environment Clearance for rigid polyurethane foam manufacturing enterprises, (ii) Petroleum Explosive and Safety organization (PESO) with respect to requirement for PESO clearance in case rigid polyurethane foam manufacturing enterprises use preblended polyol containing cyclopentane as blowing agent, and (iii) Department of Revenue, Ministry of Finance, with respect to the decision of the Committee that only 50% of the duty exemption will be granted to M/s Krishna Maruti Ltd. on the current application as M/s Krishna Maruti Ltd. is coming again and again for the same type of project in a short span of time of one and half years. The status is as follows. No reply had been received from PESO as yet. The IA Division of the Ministry had informed on the applicability of Environment Clearance to rigid polyurethane foam manufacturing enterprises. The Department of Revenue, Ministry of Finance, had replied that in case a project fulfils the eligibility criteria the duty exemption is to be given in full and not in part.

The Chair opined that the responsibility of the Committee is to appraise the projects and assess its suitability with respect to giving benefit of duty exemption, in cases where duty exemption being sought for same type of applications, where technology is fully matured, commercially viable and well penetrated in the market, it is not appropriate to provide duty exemption and this should not become a routine procedure.

8. The Committee then considered the following Agenda Item:

**Agenda Item No. 1:** (i) The application of M/s Sudarshan Saur Shakti Pvt. Ltd., Aurangabad for duty exemption for import of Nanopenta 100 CANNON High Pressure machine HCFC free technology in their plant at Waluj, Aurangabad.

(ii) The representative of M/s Sudarshan Saur Shakti Pvt. Ltd. gave presentation on the proposal which is at **Annexure-II**. M/s Sudarshan Saur Shakti Pvt. Ltd., manufacturer of solar water heater systems. The enterprise was using Hydrochlorofluorocarbon (HCFC)-141b as a blowing agent in foam manufacturing. The company intend to use cyclopentane blended polyol (12-15% of cyclopentane) for insulation. The enterprise is setting up Rigid Polyurethane Foam Solar water heater plant in Aurangabad, Maharashtra & HCFC-141B free technology.

(iii) M/s Sudarshan Saur Shakti Pvt. Ltd. was using HCFC-141b as a foam blowing agent in Water Heater sub-sector. The use of HCFC-141b as a foam blowing agent in the foam manufacturing sector has been phased-out under HCFC Phase-out Management Plan (HPMP) Stage-II. The phase-out of HCFCs in HPMP Stage-II inter alia will be addressed through technology conversions in large, medium, small and micro enterprises in the polyurethane foam manufacturing sector.

(iv) M/s Sudarshan Saur is a participating enterprise under HPMP Stage-II and has signed Memorandum of Agreement (MoA) with Ozone Cell, MoEF&CC for the purpose of implementation of specific technology conversion at their following location in the below mentioned sub-sector:

**Table - 1**

| S. No. | Sub-sector   | Location                                   | Alternate blowing agent |
|--------|--------------|--|-------------------------|
| 1      | Water Heater | K-240/241, MIDC Waluj, Aurangabad - 431136 | Cyclopentane            |

(v) They are manufacturer of solar water heater systems. Presently they consumes HCFC-141B blended polyol, now they ae importing cannon Nanopenta 100 machine from Cannon Afros Company. This machine is capable to use C5 blended polyol for

insulation of solar water heater systems. C5 blended polyol is zero ODS chemical. The details of machinery being imported is given in the table below:

Table – 2

| S. No                          | Description of Goods   | Purchase order no. and date    | Price in Euro | Price in INR (Exchange rate Rs.89/ Euro) | Site Location   |
|--------------------------------|--|--------------------------------|---------------|--|---|
| 1                              | Nanopenta 100, Tank Group, Dosing Group, Cannon L14, high Pressure mixing head, hydraulic unit, control panel, packing in sea/freight case | 41455/2019-20<br>Dated 22-8-19 | 80,000        | 7120000                                  | Sudarshan Saur K-240/241, MIDC Waluj, Aurangabad - 431136 |
| 2                              | Safeties & Engineering   |                                |               |  |   |
| 3                              | Installation and start-up by Expanded engineer (lodging and boarding at customer scope)  |                                |               |  |   |
| <b>Total Cost of Machinery</b> |  |                                |               | <b>71,20,000/-</b>                       |   |
| <b>Duty @ 7.5% INR</b>         |  |                                |               | <b>5,34,000/-</b>                        |   |

(vi) The total cost of machinery being imported is Rs. 71.20 lakhs and duty on it would be approx. Rs. 5.34 lakhs. The company has submitted the supporting documents.

(vii) The Committee sought clarification on the present proposal whether the equipment are general purpose or are required for specific manufacturing process. The Committee sought item-wise break up of price for specific equipment required for non-ODS technology. The item-wise break up for item "safeties and engineering" is to be provided by the enterprise.

(viii) The Committee asked the representative of M/s Sudarshan Saur Shakti Pvt. Ltd. to provide an affidavit that there is no local manufacturer of the equipment being

imported available in the country. The company was also required to provide the breakup of the equipment required for foam manufacturing line listed at Sr. No. 1, and 2 of Table 2. The company has to specifically provide list of items which are for the non-ODS technology.

(ix) The Committee decided that no duty exemption would be provided for item no. 3 "Installation and start-up by Expanded engineer (lodging and boarding at customer scope)". Accordingly, separate cost on the same need to be provided..

(x) The Committee recommended exemption of basic Custom duty to the equipment's listed in Table 2 with a condition that for Item at Sr. No. 1 and 2 of Table 2 only those items will be considered for Custom duty exemption which are to used specifically for the non-ODS technology and which cannot be used for ODS based technologies based on the list provided by M/s Sudarshan Saur Shakti Pvt. Ltd. and further subject to M/s Sudarshan Saur Shakti Pvt. Ltd., submitting the following:

- a) Breakup of the equipment required for foam manufacturing line listed at Sr. No. 1 and 2 of Table 2 and also has to specifically provide list of items which are for the non-ODS technology.
- b) An undertaking that the equipment being imported are not manufactured in India.
- c) An undertaking that the equipment would be specifically used only for the purpose as set out in the application proposal.
- d) An undertaking that, in case, the company envisages to sell the equipment the same needs to brought to the notice of Custom Authorities.
- e) M/s Sudarshan Saur Shakti Pvt. Ltd., shall give in writing, that only the non-ODS component cannot be imported separately. The whole system has to be imported as a whole.
- f) M/s Sudarshan Saur Shakti Pvt. Ltd., shall give an undertaking that the imported equipment shall not be used by ODS technology.

g) no duty exemption would be provided for item no. 3 "Installation and start-up by Expanded engineer (lodging and boarding at customer scope)". Accordingly, separate cost on the same need to be provided

(xi) The Committee also informs M/s Sudarshan Saur Shakti Pvt. Ltd. that MoEF&CC reserves the right to inspect plant during operation stage with respect to the conditions stipulated and the operation of the fiscal incentive scheme.

**Agenda Item No. 2:** (i) The application of M/s Shree Venus Energy System Private Limited, Chennai for duty exemption for import of (i) Pentane safety Panel to manage Pentane Gas Sensors (ii) Pentane mixing station – BA-Mix-25 in their plant at Sriperumbudur.

(ii) The representative of M/s Shree Venus Energy System Private Limited gave presentation on the proposal which is at **Annexure-III**. M/s Shree Venus Energy System Private Limited are in the business for manufacture and supply of all kinds of ducts for Air-conditioning and ventilation including and not limited to the following 1) Rectangular ducts 2) Spiral ducts 3) Oval ducts 4) Flexible ducts 5) Semi-flexible ducts. They also manufacture the following products - Pre-insulated pipes, Flexible Duct connectors, Insulated panels, Metal False ceilings, sound attenuators, air handling units, MS Ducts, insulated roof tiles for thermal insulation of buildings, polyurethane spray insulation, polyurethane in-situ insulation, polyurethane pipe sections and supports, polyurethane slabs, polyuria coatings for roof and floor and DG acoustic panels. They have executed many prestigious projects in India and abroad. They are equipped with the state of the art machineries imported from UK, Switzerland and Italy for the manufacture of our fortunate products.

(iii) M/s Shree Venus Energy System Private Limited was using Hydrochlorofluorocarbon (HCFC)-141b as a foam blowing agent in Spray Foam, Discontinuous Panel and General Insulation sub-sector. The use of HCFC-141b as a foam blowing agent in the foam manufacturing sector has been phased-out under HCFC Phase-out Management Plan (HPMP) Stage-II. The phase-out of HCFCs in

HPMP Stage-II inter alia will be addressed through technology conversions in large, medium, small and micro enterprises in the polyurethane foam manufacturing sector.

(iv) M/s Shree Venus Energy System Private Limited is a participating enterprise under HPMP Stage-II and has signed Memorandum of Agreement (MoA) with Ozone Cell, MoEF&CC for the purpose of implementation of specific technology conversion at their following location in the below mentioned two sub-sectors:

**Table – 3**

| S. No. | Sub-sector          | Location  | Alternate blowing agent |
|--------|---------------------|---|-------------------------|
| 1      | Discontinuous Panel | G-47, SIPCOT Industrial Park, Vallam Vadagal, Pondur Village, Sriperumbudur, Pin-602105 | Cyclopentane, Ecomate   |
| 2      | General Insulation  |   |                         |
| 2      | Spray Foam          |   |                         |

(v) The details of machinery being imported is given in the table below:

**Table - 4**

| S. No                          | Description of Goods   | Purchase order no. and date                           | Price in Euro | Price in INR (Exchange rate Rs.89 / Euro) | Site Location   |
|--------------------------------|--|---|---------------|---|---|
| 1                              | Supply of Pentane safety panel to manage pentane gas sensors | SVESPL/ Ekosyste m s.r.l. /2019-20 /PO dated 26.10.19 | 28000         | 24,92,000                                 | G-47, SIPCOT Industrial Park, vallam Vadagal, Pondur Village, Sriperum budur - 602105 |
| 2                              | Supply of pentane mixing station = BA – Mix 25               |   | 45000         | 40,05,000                                 |   |
| <b>Total Cost of Machinery</b> |  |   |               | <b>64,97,000</b>                          |   |
| <b>Duty @ 7.5% INR</b>         |  |   |               | <b>4,87,275</b>                           |   |

(vi) The total cost of machinery being imported is Rs. 64.97 lakhs and duty on it would be approx. Rs. 4.87 lakhs. The company has submitted the supporting documents.

(vii) The Committee sought clarification on the present proposal whether the equipment are general purpose or are required for specific manufacturing process.

(viii) The company was required to provide the breakup of the equipment required for foam manufacturing line listed at Sr. No. 1 and 2 of Table 4. The company has to specifically provide list of items which are for the non-ODS technology.

(ix) Based on the discussions, the Committee recommended exemption of basic Custom duty to the equipment's listed in Table 4 with a condition that for Item at Sr. No. 1 and 2 of Table 4 only those items will be considered for Custom duty exemption which are to used specifically for the non-ODS technology and which cannot be used for ODS based technologies based on the list provided by M/s Shree Venus Energy System Private Limited and further subject to M/s Shree Venus Energy System Private Limited, submitting the following:

- a) Breakup of the equipment required for foam manufacturing line listed at Sr. No. 1 and 2 of Table 4 and also has to specifically provide list of items which are for the non-ODS technology.
- b) An undertaking that the equipment being imported are not manufactured in India.
- c) An undertaking that the equipment would be specifically used only for the purpose as set out in the application proposal.
- d) An undertaking that, in case, the company envisages to sell the equipment the same needs to brought to the notice of Custom Authorities.
- e) M/s Shree Venus Energy System Private Limited, shall give in writing, that only the non-ODS component cannot be imported separately. The whole system has to be imported as a whole.



f) M/s Shree Venus Energy System Private Limited, shall give an undertaking that the imported equipment shall not be used by ODS technology.

(x) The Committee also informs M/s Shree Venus Energy System Private Limited that MoEF&CC reserves the right to inspect plant during operation stage with respect to the conditions stipulated and the operation of the fiscal incentive scheme.

**Agenda Item No. 3**

(i) The application of M/s Havells India Limited Rajasthan for duty exemption for import of Canon PUF machine with Premix set-up in Neemrana (Dist. Alwar) Rajasthan.

(ii) The representative of M/s Havells India Limited gave presentation on the proposal which is at **Annexure-IV**. M/s Havells India Limited was started in 1983. M/s Havells India Limited has a market presence in a wide range of products including fans, water heaters personal grooming products, home appliances, industrial & domestic circuit protection devices, cables & wires, motors, modular switches, air conditioners, washing machines etc., luminaires for domestic, commercial and industrial applications. With 13 state of the art plants, over 90% of products are manufactured in-house.

(iii) M/s Havells India Limited has a domestic presence across 45 cities with nearly 6,500 professionals. M/s Havells India Limited operate in a large part of the FMEG market with a presence in 2,283 towns with a population of over 25,000 people, representing 50 % of such towns in India.

(iv) M/s Havells India Limited are manufacturer of Electric Water Heaters having manufacturing unit at Neemrana (Dist. Alwar), Rajasthan. They have ordered PUF Injection machine, vide P.O. No 4600013745 dated 13.07.2019 to M/s Canon Afros S.P.A, Italy. The ordered machinery with the Pentane Technology, included the safety equipment, necessary for the production of Electric Eater Heaters, using Pentane, a non-Ozone depleting Substance (non-ODS), as blowing agent for Polyurethane foam. Foaming is a critical part of the plant and the modifications carried out in the machine has to perform on it and has been carefully evaluated mainly from a safety point of view. Every section of the process is fully controlled.

(v) The plant details of which are given in the table below.

**Table-5**

| SI. No                              | Description of Equipment   | Qty   | P.O. No and Date                      | Price in EURO | Price in INR (1 Euro @ 89 INR) | Site Location                      |
|-------------------------------------|--|-------|---------------------------------------|---------------|--------------------------------|------------------------------------|
| 1                                   | <p>Canon PUF machine with premix set-up</p> <p>The machine includes:</p> <p><b>Storage &amp; Premix</b></p> <ul style="list-style-type: none"> <li>• Pentane drum unloading system</li> <li>• Premix 20+4+4</li> <li>• Buffer tank 1000 lit for POL+C% blend</li> <li>• Chiller</li> <li>• Safety control cabinet</li> <li>• Installation</li> </ul> <p><b>Wet Line</b></p> <ul style="list-style-type: none"> <li>• A-Compact 40 FCPB with 1 FPL 14 SR mixing head</li> <li>• Nitrogen Inertization system</li> <li>• Chiller</li> <li>• Safety control cabinet</li> <li>• Installation</li> <li>• Engineering for the project</li> <li>• Installation on site</li> </ul> | 1 set | (PO No. 4600013745) dated 13.07.2019) | 3,45,000      | 3,07,05,000                    | Neemrana (Distt. Alwar), Rajasthan |
| <b>Total cost INR</b>               |  |       |                                       |               | 3,07,05,000                    |                                    |
| <b>Approx. Duty payable @ 7.5 %</b> |  |       |                                       |               | 23,02,875                      |                                    |

- (vi) The project will cost Rs. 3.07 crores and basic import duty on it @ 7.5% would be approx. Rs. 23.02 lakhs.
- (vii) The Committee sought clarification on the present proposal whether the equipment are general purpose or are required for specific manufacturing process.
- (viii) The Committee based on the discussion decided that exemption of duty exemption will be given only for the items which are considered under duty exemption notification and not for installation.
- (ix) The company was required to provide the breakup of the equipment required for foam manufacturing line listed at Sr. No. 1 of Table 5. The company has to specifically provide list of items which are for the non-ODS technology. The Committee also specifically enquired about the role of chiller in the PUF machine.
- (x) Based on the discussions, the Committee recommended exemption of basic Custom duty to the equipment's listed in Table 5 with a condition that for Item at Sr. No. 1 of Table 5 only those items will be considered for Custom duty exemption which are to used specifically for the non-ODS technology and which cannot be used for ODS based technologies based on the list provided by M/s Havells India Limited and further subject to M/s Havells India Limited, submitting the following:
- a) Breakup of the equipment required for foam manufacturing line listed at Sr. No. 1 of Table 5 and also has to specifically provide list of items which are for the non-ODS technology.
  - b) An undertaking that the equipment being imported are not manufactured in India.
  - c) An undertaking that the equipment would be specifically used only for the purpose as set out in the application proposal.
  - d) An undertaking that, in case, the company envisages to sell the equipment the same needs to brought to the notice of Custom Authorities.

- e) M/s Havells India Limited, shall give in writing, that only the non-ODS component cannot be imported separately. The whole system has to be imported as a whole.
- f) M/s Havells India Limited, shall give an undertaking that the imported equipment shall not be used by ODS technology.
- (xi) The Committee also informs M/s Havells India Limited that MoEF&CC reserves the right to inspect plant during operation stage with respect to the conditions stipulated and the operation of the fiscal incentive scheme.

**Agenda Item No. 4:** (i) The application of M/s Varivar Plast Products Pvt. Ltd., Kanpur for duty exemption for import of Polyurethane Foam Dispensing machine in their plant at Kanpur, Uttar Pradesh.

(ii) The representative of M/s Varivar Plast Products Pvt. Ltd. gave presentation on the proposal which is at **Annexure-V**. M/s Varivar Plast Products Pvt. Ltd. are manufacturers of insulated plastic thermoware products like casseroles, water jugs, insulated tiffin's and houseware products like bucket, tub, mug dustbin etc. They are planning to convert our PU filling line from low- pressure machine, which was used, for Hydrochlorofluorocarbon (HCFC)-141b Polyol to high-pressure machine suitable for using Cyclopentane for work. The current equipment, which is available is a low-pressure open pouring machine, which is not suitable for cyclopentane, due to which they are purchasing a high pressure machine from Cannon Afros s.p.A, Italy along with all the necessary safety accessories, required to run the cyclopentane material effectively.

(iii) M/s Varivar Plast Products Pvt. Ltd. was using HCFC-141b as a foam blowing agent in thermoware sub-sector. The use of HCFC-141b as a foam blowing agent in the foam manufacturing sector has been phased-out under HCFC Phase-out Management Plan (HPMP) Stage-II. The phase-out of HCFCs in HPMP Stage-II inter alia will be addressed through technology conversions in large, medium, small and micro enterprises in the polyurethane foam manufacturing sector.

(iv) M/s Varivar Plast Products Pvt. Ltd., is a participating enterprise under HPMP Stage-II and has signed Memorandum of Agreement (MoA) with Ozone Cell, MoEF&CC for the purpose of implementation of specific technology conversion at their following location in the below mentioned sub-sector:

**Table-6**

| S. No. | Sub-sector | Location  | Alternate blowing agent |
|--------|------------|---|-------------------------|
| 1      | Thermoware | Plot No. 59, Birtian, Mandhana,<br>Kanpur (Uttar Pradesh) | Cyclopentane            |

(v) They are importing the machine from Cannon because of the safety standards provided by Cannon as Cyclopentane, is highly flammable and it requires a very high standards of safety. The details of machinery being imported is given in the table below:

**Table - 7**

| S. No. | Description of Goods  | Purchase order no. and date               | Unit | Price in Euro | Price in INR (Exchange rate Rs.89/ Euro) | Site Location   |
|--------|---|---|------|---------------|--|---|
| 1      | Nanopenta-10,<br>Tank Group + Dosing<br>Group,<br>Cannon LN5, High Pressure<br>mixing head<br>Hydraulic Unit and control<br>panel,<br>Packing in sea/freight case | PO/2019-<br>20/026<br>dated<br>21.11.2019 | 1    | 63660         | 56,65,740                                | Plot No.<br>59,<br>Birtian,<br>Mandhan<br>a, Kanpur<br>(UP) |

|  |  |  |   |              |                  |
|--|--|--|---|--------------|------------------|
|  | Complete Pentane safeties from cannon, Italy                               |  | 1 |              |                  |
|  | Inclusive of all the particulars mentioned in offer EPSP118-19/518/RP-Rev6 |  |   |              |                  |
|  |  |  |   |              |                  |
|  | <b>Total Cost of Machinery</b>   |  |   | <b>63660</b> | <b>56,65,740</b> |
|  | <b>Duty @ 7.5% INR</b>   |  |   |              | <b>4,24,931</b>  |

(vi) The total cost of machinery being imported is Rs. 56.65 lakhs and duty on it would be approx. Rs. 4.24 lakhs. The company has submitted the supporting documents.

(vii) The Committee sought clarification on the present proposal whether the equipment are general purpose or are required for specific manufacturing process.

(viii) The company was required to provide the breakup of the equipment required for foam manufacturing line listed at Sr. No. 1 of Table 7. The company has to specifically provide list of items which are for the non-ODS technology.

(ix) Based on the discussions, the Committee recommended exemption of basic Custom duty to the equipment's listed in Table 7 with a condition that for Item at Sr. No. 1 of Table 7 only those items will be considered for Custom duty exemption which are to used specifically for the non-ODS technology and which cannot be used for ODS based technologies based on the list provided by M/s Varivar Plast Products Pvt. Ltd. and further subject to M/s Varivar Plast Products Pvt. Ltd., submitting the following:

- a) Breakup of the equipment required for foam manufacturing line listed at Sr. No. 1 of Table 7 and also has to specifically provide list of items which are for the non-ODS technology.
- b) An undertaking that the equipment being imported are not manufactured in India.

- c) An undertaking that the equipment would be specifically used only for the purpose as set out in the application proposal.
  - d) An undertaking that, in case, the company envisages to sell the equipment the same needs to be brought to the notice of Custom Authorities.
  - e) M/s Varivar Plast Products Pvt. Ltd., shall give in writing, that only the non-ODS component cannot be imported separately. The whole system has to be imported as a whole.
  - f) M/s Varivar Plast Products Pvt. Ltd., shall give an undertaking that the imported equipment shall not be used by ODS technology.
- (x) The Committee also informs M/s Varivar Plast Products Pvt. Ltd. that MoEF&CC reserves the right to inspect plant during operation stage with respect to the conditions stipulated and the operation of the fiscal incentive scheme.

The Meeting ended with vote of thanks to Chair and members.

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## Annexure – 1

## List of Participants

|    |  |          |
|----|--|----------|
| 1. | Dr. Abhay Bakre<br>Director General,<br>Bureau of Energy Efficiency (BEE),<br>4th Floor, Sewa Bhawan,<br>R.K. Puram,<br>New Delhi – 110066   | Chairman |
| 2. | Dr. S. Mary Celin<br>Scientist 'F', (CFEES)<br>Ministry of Defence,<br>DRDO,<br>SK Mazumdar Marg, Timarpur,<br>Delhi – 110054<br>Email: <a href="mailto:director@cfees.drdo.in">director@cfees.drdo.in</a> ; <a href="mailto:marycelin@cfees.drdo.in">marycelin@cfees.drdo.in</a>  | Member   |
| 3. | Ms. Ila Chauhan<br>Scientist 'E',<br>Ministry of Defence,<br>DRDO,<br>SK Mazumdar Marg, Timarpur,<br>Delhi – 110054<br>Email : <a href="mailto:ila@hqr.drdo.in">ila@hqr.drdo.in</a> ; <a href="mailto:ccsam@hqr.drdo.in">ccsam@hqr.drdo.in</a>   | Member   |
| 4. | Mr. Ashwini Mehra<br>Executive Secretary,<br>Indian Society of Heating, Refrigerating and Air-<br>Conditioning Engineers (ISHRAE)<br>K-43, Basement Kailash Colony,<br>New Delhi – 110048<br>Email: <a href="mailto:mehrashwini@gmail.com">mehrashwini@gmail.com</a>   | Member   |
| 5. | Dr. Smita Mohanty<br>Director (Principal Scientist)<br>Department of Chemicals & Petrochemicals,<br>Ministry of Chemicals & Fertilizers,<br>488-B, 4th Floor, Block -2, KIADB Building, 14th Cross<br>Peenya 2nd Stage, Bengaluru - 560058<br>Mobile – 09692895995<br>Email – <a href="mailto:apddr1bengaluru@gmail.com">apddr1bengaluru@gmail.com</a> | Member   |
| 6. | Dr. Vishal Choudhary,<br>Dy. Industrial Advisor<br>Department of Chemical & Petro-Chemicals,<br>Room No. 501-A Wing, Shastri Bhavan,   | Member   |



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|-----|---|-----------------|
|     | Dr. Rajendra Prasad, New Delhi - 110 001<br>Email: <a href="mailto:Choudhary.vishal@gov.in">Choudhary.vishal@gov.in</a>   |                 |
| 7.  | Shri Shikhar Jain<br>Principal Counsellor<br>Confederation of Indian Industry (CII)<br>23, Institutional Area, Lodi Road,<br>New Delhi – 110003<br>Email : <a href="mailto:Shikhar.jain@cii.in">Shikhar.jain@cii.in</a>   | Member          |
| 8.  | Ms. Preeti Srivastava<br>Sr. Scientist<br>Council of Scientific Industrial Research (CSIR),<br>Technology Bhavan,<br>New Mehrauli Road, New Delhi-110016<br>Email: <a href="mailto:srivastreeti@csir.res.in">srivastreeti@csir.res.in</a>                       | Member          |
| 9.  | Mr MP Agrawal<br>Chair Advocacy<br>Indian Society of Heating, Refrigerating and Air-<br>Conditioning Engineers (ISHRAE)<br>K-43, Basement Kailash Colony,<br>New Delhi – 110048<br>Email : <a href="mailto:mpagarwal1958@gmail.com">mpagarwal1958@gmail.com</a> | Member          |
| 10. | Mr. T.P. Ashwin,<br>Project Engineer,<br>Bureau of Energy Efficiency (BEE),<br>4th Floor, Sewa Bhawan,<br>R.K. Puram,<br>New Delhi – 110066   | Special invitee |
| 11. | Dr. J.D. Marcus Knight,<br>Scientist 'C'<br>Ozone Cell,<br>Ministry of Environment, Forest & Climate Change,<br>Government of India, Core IV B, 2nd Floor,<br>India Habitat Centre, Lodhi Road,<br>New Delhi – 110003   | Special invitee |
| 12. | Dr. R.S. Aggarwal<br>Professor (Retd.), IIT Delhi<br>Core IV B, 2nd Floor,<br>India Habitat Centre,<br>Lodhi Road, New Delhi – 110 003  | Special invitee |
| 13. | Mr. Fahad Naim<br>Ozone Cell<br>Ministry of Environment, Forest and Climate Change<br>Core IV B, 2nd Floor,<br>India Habitat Centre,  | Special invitee |

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|-----|--|------------------|
|     | Lodhi Road, New Delhi – 110003   |                  |
| 14. | Ms. Chanchal Sharma<br>Technical Officer<br>Ministry of Environment, Forest and Climate Change<br>Core IV B, 2nd Floor,<br>India Habitat Centre,<br>Lodhi Road, New Delhi – 110003   | Special invitee  |
| 15. | Dr. Amit Love<br>Scientist 'E'/ Additional Director,<br>Ozone Cell,<br>Ministry of Environment, Forest & Climate Change,<br>Government of India, Core IV B, 2nd Floor,<br>India Habitat Centre, Lodhi Road, New Delhi – 110003 | Member Secretary |