

**Minutes of the Technology and Finance Standing Committee (TFSC) Meeting held on 15<sup>th</sup> October, 2019 at 3:30 P.M. in the Conference Room of Consultancy Development Centre (CDC), Core 4B, 2<sup>nd</sup> Floor, India Habitat Centre, Lodhi Road, New Delhi – 110003.**

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The Meeting of the Technology and Finance Standing Committee (TFSC) Meeting held on 15th October, 2019 at 3:30 P.M. in the Conference Room of Consultancy Development Centre (CDC), Core 4B, 2nd Floor, India Habitat Centre, Lodhi Road, New Delhi – 110003 under the Chairmanship of Shri Abhay Bakre, Director General, Bureau of Energy Efficiency (BEE). 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 21st June, 2019 were circulated to all the Members of the Committee. Since, no comments have been received, the Minutes were adopted.

7. The Committee then considered the following Agenda Item:

**Agenda Item No. 1:** (i) The application of M/s Lloyd Insulations (India) Ltd., Pithampur, Madhya Pradesh for duty exemption for import includes (i) Cannon "A-Compact 200 PB" High Pressure Dosing unit with its parts & packing (ii) N.2 Retrofitting to existing press 12500X1400 for pentane use including installation (iii) Safeties Setup 1 (iv) Engineering Setup 1 (v) Pentanization of existing "A-Compact 200", Nitrogen Purging valves and Nitrogen Tank, POL-Pentane loading Piston Pump (vi) Nitrogen Generator (vii) Safeties Setup 2 (viii) Engineering setup 1+ setup 2 (ix) Installation of setup 1+ setup 2 (x) Mixing head FPL18SR as spare (xi) Safety device restoring in their plant at Pithampur, Madhya Pradesh .

(ii) The representative of M/s Lloyd Insulations (India) Ltd. gave presentation on the proposal which is at **Annexure-II**. M/s Lloyd Insulations (India) Ltd., having its polyurethanes division at Pithampur (MP), is the market leader in the field of Energy Conservation with products in the form of Cold Insulation to include Rigid Polyurethane foam products. M/s Lloyd Insulations (India) Ltd. is design, engineering, manufacturing and contracting company with years of experience in Thermal Insulation Sector with first plant in Pithampur, Madhya Pradesh.

(iii) M/s Lloyd Insulations (India) Ltd. is presently using Hydrochlorofluorocarbon (HCFC)-141b as a foam blowing agent in General Insulation and Discontinuous Panels sub-sector. The use of HCFC-141b as a foam blowing agent in the foam manufacturing sector is being 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. Use of HCFC-141b will be phased-out as on 1.1.2020 as per Ozone Depleting Substances (Regulation and Control) Rules, 2000 and its amendments.

(iv) M/s Lloyd Insulations (India) Ltd. is a participating enterprise under HPMP Stage-II.

(v) In order to phase-out HCFC-141b, cyclopentane blended system has been chosen as alternative technology. This cannot be employed without retro fitment and implementation of requisite safety setup. For conversion of existing foam manufacturing setup from HCFC-141b to pre blended cyclopentane with polyol technology M/s Lloyd Insulations (India) Ltd. are procuring following retro-fitment items:- (a) Cannon A compact 200 PB high pressure dosing unit (b) retrofitting in existing press including safeties & engineering setup 1 (c) nitrogen generator including safeties & Engineering setup 2 (d) mixing head FPL 18SR as spare (e) conversion of existing foaming setup to make it suitable for operations based on cyclopentane involves provision of additional suction ducts, wall barriers, safety and ventilation system to include unloading and transfer (thru diaphragm pumps) setup with gas sensor, alarms, monitoring and nitrogen blanketing system.

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

Table - 1

S. No	Description of Goods	Purchase order no. and date	Price in Euro	Price in INR (Exchange rate Rs.78 / Euro)	Site Location
1	Cannon "A-Compact 200 PB" High Pressure Dosing unit composed by the following parts: a) Cannon A- Compact 200 Penta Basic b) Tanks Group c) Dosing Group d) Control Panel e) N.2 Mixing Heads Groups FPL 24 SR f) N.2 Hydraulic unit (100 L. capacity) g) N.2 Nitrogen Pugging valves and Nitrogen Tank h) High Pressure Piping from the Dosing unit to the Mixing Head (not included supplied by Expanded) i) POL-Pentane Loading Piston Pump j) Packing	LII/PUP/IM P/025/2018-19 (revised) dated 1 <sup>st</sup> July, 2019	167000	13026000	Lloyd Insulations (I) Ltd., Plot No. 103, AKVN Industrial Area, Sector-3, Pithampur, Madhya Pradesh
2	N.2 Retrofitting to Existing Press 12500 X 1400 for pentane use including installation		194000	15132000	

3	Safeties Setup 1		58000	4524000
4	Engineering Setup 1		9000	702000
5	a) Pentanization of existing "Ä-Compact 200" b) Nitrogen Purging Valves and Nitrogen Tank c) Pol-Pentane loading Piston Pump		33000	2574000
6	Nitrogen Generator		27000	2106000
7	Safeties Setup 2		43000	3354000
8	Engineering Setup 1+ Setup 2		9000	702000
9	Installation of Setup 1 + Setup 2		30000	2340000
10	Mixing Head FPL18SR as spare		20000	1560000
11	Safety dive Restoring		32250	2515500
<b>Total Cost of Machinery</b>			<b>622250</b>	<b>48535500</b>
<b>Duty @ 7.5% INR</b>				<b>3640162.5</b>

(vii) The total cost of machinery being imported is Rs. 4.85 crores and duty on it would be approx. Rs. 36.40 lacs.

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

(ix) The status of the existing foaming machines was sought specifically with respect to retrofit and procurement of new machine. The representative of M/s Lloyd Insulations (India) Ltd. informed the Committee that out of the two foaming machine available with M/s Lloyd Insulations (India) Ltd. one is of the year 2002 and the other one is of 2005. The foaming machine of the year 2002 will be scrapped off and new foaming machine will be installed in its place whereas the second machine of the year 2005 will be retrofitted. On being enquired the representative of M/s Lloyd Insulations (India) Ltd. informed the Committee that all parts of the consignment will be coming from the same vendor.

(x) In addition clarification was also sought on feasibility of retrofit with reference to cyclopentane technology and whether there is any increase in the production capacity of the plant. The representative of M/s Lloyd Insulations (India) Ltd. informed the Committee that, the equipment vendor M/s Cannon has assessed the condition of the foaming machines. The equipment of 2002 vintage cannot be retrofitted, however the foaming machine of 2005 can be retrofitted. M/s Lloyd Insulations (India) Ltd. informed the Committee that there is no change in the production capacity of the plant.

(xi) On the question of installation that since installation of the equipment will take place in India a clarification was sought as to why the vendor is seeking funds in Euros, M/s Lloyd Insulations (India) Ltd. informed the Committee that installation is an integral part of the order and installation will also

include the tools that the Vendor will bring at the time of installation and the installation tools will be internalized in the machines.

(xii) It was enquired whether M/s Lloyd Insulations (India) Ltd. has Environmental Clearance (EC) for its Pithampur unit regarding the usage of Cyclopentane and also relevant safety clearances. It was informed that EC is always taken prior to production.

(xiii) The Committee based on the discussion decided that exemption of duty exemption will be given only for the items which are exempted under duty exemption notification and not for installation.

(xiv) The Committee recommended exemption of basic Custom duty to the equipment's listed in Table 1 other than Installation of Setup 1 + Setup 2 mentioned at Sr. No. 9 in Table 1, subject to M/s Lloyd Insulations (India) Ltd., submitting the following:

- a) Environmental Clearance for its Pithampur unit, as applicable.
- b) Safety clearance for the Pithampur plant.
- c) An undertaking that the equipment being imported are not manufactured in India.
- d) An undertaking that the equipment would be specifically used only for the purpose as set out in the application proposal.
- e) An undertaking that, in case, the company envisages to sell the equipment the same needs to be brought to the notice of Custom Authorities.
- f) M/s Lloyd Insulations (India) 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.
- g) M/s Lloyd Insulations (India) Ltd., shall give an undertaking that the imported equipment shall not be used by ODS technology.

(xv) The Committee also informs M/s Lloyd Insulations (India) 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 Suchi Foams Pvt. Ltd., Mehsana, Gujarat for duty exemption for import of i) Roll Forming part of continuous polyurethane sandwich panel production PUR and PIR panel (Dry part) and ii) 5 component with pentane as blowing agent machine for production of continuous polyurethane sandwich panel production PUR and PIR panel.

(ii) A copy of the presentation made by M/s Suchi Foams Pvt. Ltd., is at **Annexure III**. M/s Suchi Foams Pvt. Ltd. is in the field of pre-fabricated Sandwich rigid panels for cold storage for thermal insulation. Sandwich panels or composite panels consist of an insulation material core of varying thickness which is held between metal and flexible facings. They have been extensively used in external wall and roof constructions, cold storage, warehousing, food industry etc are few among many are its usage areas. The insulation core within the sandwich panel varies. The core material used generally falls into one of the following categories:

- I. Non-combustible mineral wool or fiberglass
- II. Polyisocyanurate Foam (PIR)
- III. Polyurethane Foam (PUF)

(iii) M/s Suchi Foams Pvt. Ltd. are now implementing a modern fully automated and computerized plant at village- Khavad, Taluka – Kadi, District – Mehsana in the state of Gujarat. The plant is a Greenfield manufacturing facility that will produce polyurethane foam (PUF) insulated sandwich panels in a continuous line. The process for manufacture of PUF panels requires the use of a blowing agent to reduce the viscosity of the other raw materials in the foam and to act as an insulating agent for the panel by getting trapped in the cells of the foam.

(iv) M/s Suchi Foams Pvt. Ltd. will use Pentane as the blowing agent in the manufacture of poly urethane foam. Conventionally HCFC-141b is used as a blowing agent. Under HPMP Stage-II technology conversions are being assisted to non HCFC-141b low GWP technologies. There are also non-HCFC 141b high GWP technologies. The company has chosen to use non-HCFC 141b low GWP technology of pentane in their new plant.

(v) M/s Suchi Foams Pvt. Ltd. will incur all addition safety related to use of pentane as a blowing agent including license from Explosives department for explosion proof facilities and risk management systems required in the usage of an inflammable gas like pentane. The

manufacture of Rigid polyurethane foam panel is a chemical reaction which starts out as a liquid dispensation and rapidly progress through a thickening and expansion followed by setting and final cure.

(vi) The foaming unit is made up of a group of tanks, pumps and gauges, all of them electronically controlled and directed in order to achieve a perfect metering of chemical components that mixed together in the High Pressure head to foam to produce polyurethane foam, The foaming unit is a complete set of pressurized tanks, catalyst storing for the foam correction on the Pol line with a static mixer.

(vii) The equipment for the plant has been supplied by OMS Italy and Metal Roll forming by IL Kwang Korea. The deployment of a continuous process would reduce the specific energy consumption of the process leading to energy efficiency. The plant details are given in the table below:

**Table 2**

<b>Sl. No</b>	<b>Description of Equipment</b>	<b>Purchase order no. and date</b>	<b>Price in Euro</b>	<b>Price in INR (Exchange rate Rs.78 / Euro)</b>	<b>Site Location</b>
1	Polyurethane sandwich panel production line	(PO No. SFPL/PO/IKMF/01 dated 18 <sup>th</sup> May, 2019)  From IL Kwang Metal Forming Co. Ltd., South Korea	14,37,000	112086000	Survey No: 1972 Vill. Khavad TA: Kadi Dist: Mehsana, Gujarat - 382165
2	1.High pressure machine 5 components (MDI, Polyol 1 and 2, Catalyst 1 and 2, Pentane) and including: <ul style="list-style-type: none"> <li>• Additional Polyol Tank</li> <li>• Foam front Laser system</li> <li>• Calibration kit for infrared sensors</li> </ul> 2. Pentane metering line and safety equipment 3. Mixing head cross beam (single head) 4. Suction system lay down area 5. Foam laydown table	(PO No. SFPL/PO/SAIP/01 dated 3 <sup>rd</sup> July, 2019)  From SAIP Italy	4,60,000	35880000	

Sl. No	Description of Equipment	Purchase order no. and date	Price in Euro	Price in INR (Exchange rate Rs.78 / Euro)	Site Location
	6. High pressure air/ Nitrogen air load system (booster system) 7. Pentane storage farm (drums) 8. Adhesive promoter equipment (primer)				
	<b>Total Cost of Machinery</b>		1897000	147966000	
	<b>Duty @ 7.5% INR</b>			11097450	

(viii) The project will cost Rs 14.79 crores and basic import duty on it @ 7.5% would be approx. Rs. 1.1 crores. The company has submitted the supporting documents.

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

(x) The Committee sought clarification that why the Continuous Line mentioned at Sr. No. 1 in Table 2 as a whole is being imported and the parts are not sourced locally including the conveyors. The representative of M/s Suchi Foams Pvt. Ltd. informed the Committee that all the parts are an integral part of the complete set and parts cannot be sourced individually as the machinery is synchronized. Also, the representative of M/s Suchi Foams Pvt. Ltd. informed the Committee that there is no local manufacturer of Continuous Line for foam manufacturing in India.

(xi) The Committee asked the representative of M/s Suchi Foams Pvt. Ltd. to provide an affidavit that there is no local manufacturer of Continuous Line for foam manufacturing available in the country. The company was also required to provide the breakup of the equipment required for continuous foam manufacturing line listed at Sr. No. 1 of Table 2. The company has to specifically provide list of items which are for the non-ODS technology.

(xii) 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 of Table 2 only those items will be exempted 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 Suchi Foams Pvt. Ltd. and further subject to M/s Suchi Foams Pvt. Ltd., submitting the following:

a) An affidavit that there is no local manufacturer of Continuous Line available in the country.



- b) Breakup of the equipment required for continuous foam manufacturing line listed at Sr. No. 1 of Table 2 and also has to specifically provide list of items which are for the non-ODS technology.
  - c) Environmental Clearance for its Mehsana unit, as applicable.
  - d) Safety clearance for the Mehsana plant.
  - e) An undertaking that the equipment being imported are not manufactured in India.
  - f) An undertaking that the equipment would be specifically used only for the purpose as set out in the application proposal.
  - g) An undertaking that, in case, the company envisages to sell the equipment the same needs to brought to the notice of Custom Authorities.
  - h) M/s Suchi Foams 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.
  - i) M/s Suchi Foams Pvt. Ltd., shall give an undertaking that the imported equipment shall not be used by ODS technology.
- (xiii) The Committee also informs M/s Suchi Foams 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. 3**

- (i) Application of M/s Krishna Maruti Ltd., Gujarat for duty exemption for import of PU Plant Wet Side (with complete accessories) and PU Plant Dry Side (with complete accessories) from M/s Kraussmaffeï Technologies GMBH, Krauss-Maffei Strasse 2, 80997, Munich, Germany.

(ii) A copy of the presentation made by M/s Krishna Maruti Ltd., is at **Annexure IV**. M/s Krishna Maruti Ltd., had earlier applied for custom duty exemption for import of PU Plant Wet Side (with complete accessories) and PU Plant Dry Side (with complete accessories) from M/s Kraussmaffeï Technologies GMBH, Krauss-Maffeï Strasse 2, 80997, Munich, Germany. The case was presented in the last meeting of the Technology and Finance Standing Committee (TFSC) held on 21<sup>st</sup> June, 2019. The details of the plant presented to the Committee in its last meeting is given below:

Sl. No	Description	P.O. No & Date	Price in FOB value in Euro	Price in INR (Exchange rate 79.00)	Site Location
1	PU plant Wet Side (with complete accessories)	20181130 Rev-01 & 13.2.2019	876,700/-	6,92,59,300/-	Plot No. 13, SMG JV Park, Block 334-335, Village – Hansalpur, Ahmedabad, Gujarat
2	PU Plant Dry Side (with complete accessories)		563,300/-	4,45,00,700/-	
<b>Total cost of machinery</b>				<b>11,37,60,000/-</b>	
<b>Duty payable approx. @ 7.5%</b>				<b>85,32,000/- 85.32 lakh</b>	

(iii) The Committee had sought the following information/ clarification from M/s Krishna Maruti Ltd., for further consideration of the case:

- a. List of Ozone Depleting Substance (ODS) which is being used in car seating's as a foam blowing agent presently.
- b. Relevant documentation received from M/s Maruti clearly showing request for increasing production capacity thrice in last one and half year and also for M/s Krishna Maruti coming again and again for the same type of project in the same span of time.
- c. To provide the relevant documentation for the share holding pattern in the company along with the foreign ownership.
- d. An undertaking that the equipment being imported are not manufactured in India.
- e. An undertaking that the equipment would be specifically used only for the purpose as set out in the application proposal.

- f. An undertaking that, in case, the company envisages to sell the equipment the same needs to be brought to the notice of Custom Authorities.
- g. M/s Krishna Maruti 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.
- h. M/s Krishna Maruti Ltd., shall give an undertaking that the imported equipment shall not be used by ODS technology.

(iv) The Committee decided that the additional documents/ clarifications provided by M/s Krishna Maruti Ltd. shall be circulated to the members of the Committee for their comments/ views on the additional documents/ clarifications provided and also views of the members will be obtained on the instant case of M/s Krishna Maruti Ltd. A separate meeting of TFSC may be convened, in case, there is view to further consider case, based on the above documents. The additional documents/clarifications received from M/s Krishna Maruti Ltd., were circulated to committee members vide email dated 11<sup>th</sup> September 2019.

(v) The additional documents / clarification received from M/s Krishna Maruti Ltd., were placed for the consideration of the Committee.

(vi) The Committee members discussed the proposal of M/s Krishna Maruti Ltd. and reviewed the documents submitted by the enterprise. The Committee members observed that this was the third application of M/s Krishna Maruti Ltd. for obtaining duty exemption on capital goods required for making car seats based on water based technology. The earlier applications were recommended for duty exemption as under:

S. No	Description	P.O. NO & Date	Price in FOB value in Euro	Price in INR exchange	Date of TFSC meeting	Approval of the Chairman, ESC	Site Location
1	(i) PU plant Wet Side (with complete accessories) (ii) PU Plant Dry Side (with complete accessories)	20170323-3 & 30.10.2017	(i) 8,26,700/-  (ii) 5,73,300/-	(i) 6,27,62,402.64  (ii) 4,35,24,477.36	16-2-18	5-7-18	Plot No. 13, SMG JV Park, Block 334-335, Village – Hansalpur, Ahmedabad, Gujarat

2	(i) PU plant Wet Side (with complete accessorie s) (ii) PU Plant Dry Side (with complete accessor ies)	20180509 & 9.5.2018	(i) 780,500/-  (ii) 635,000/-	(i) 6,47,81,500/-  (ii) 5,27,05,000/-	16-11-18	28-3-19	40 KM, NH- 8, Delhi – Jaipur Highway, Village – Narsinghpur, Gurgaon, Haryana
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The duty exemption in total was 1.67 crores.

(vii) It was also noted by the Committee that M/s Krishna Maruti Ltd. as per their presentation has become major supplier of car seats to M/s Maruti and has integrated car seat manufacturing plant with the car manufacturing facility of M/s Maruti in Gujarat. The Committee further noted that M/s Maruti has been seeking additional car seats coupled with their increase in production of specific car models.

(viii) The Committee after deliberations was of the view that the fiscal incentive scheme is for promoting and faster adoption of non-ODS technology in the country. In the instant case, it was evident from the documentation provided that the non-ODS water based technology is fully matured and well penetrated in the market. It is also a commercially viable technology as can be ascertained from repeated increase in production capacities by M/s Krishna Maruti Ltd. directly linking to the increase in production of specific models by M/s Maruti.

(ix) The Committee noted that already twice duty exemption have been provided to M/s Krishna Maruti Ltd. to the tune of Rs. 1.67 crores.

(x) The Committee decided 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. It was also decided that no further duty exemption will be given to M/s Krishna Maruti Ltd. for the same type of project. The Committee was of the view that the object of providing duty exemption to non-ODS technology had already been met due to the penetration of water based technology for car seat manufacture. Any further expansion of capacities based on water based technology in the instant case, are inherently

business decisions based on market conditions. As such, may not require duty exemption for penetration of non-ODS water based technology for car seat manufacturing in the instant case.

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

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**Annexure – I**

## List of Participants

1	<b>Dr. Abhay Bakre</b> Director General, Bureau of Energy Efficiency (BEE), 4th Floor, Sewa Bhawan, R.K. Puram, New Delhi – 110066	Chairman
2.	<b>Dr. R.P. Singh</b> Sr. Principal Scientist Council of Scientific Industrial Research (CSIR), Technology Bhavan, New Mehrauli Road, New Delhi-110016 Ph: 23470325 Email: rpsingh@csir.res.in	Member
3	<b>Dr. S. Mary Celin</b> Scientist 'F', (CFEES) Ministry of Defence, DRDO, SK Mazumdar Marg, Timarpur, Delhi – 110054 M- 9868226946 Ph: 23907121 Email: director@cfees.drdo.in; marycelin@cfees.drdo.in	Member
4	<b>Dr. S N Yadav</b> Principal Director & Head Central Institute of Plastic Engineering and Technology (CIPET), Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Near DCRUST Campus, 50th Mile Stone, NH-1, Murthal, Distt. Sonapat – 131039	Member
5	<b>Mr. Vikram Murthy</b> National President, Indian Society of Heating, Refrigerating and Air- Conditioning Engineers (ISHRAE) K-43, Basement Kailash Colony, New Delhi - 110048	Member

6	<b>Mr. Ashwini Mehra</b> Executive Secretary, Indian Society of Heating, Refrigerating and Air- Conditioning Engineers (ISHRAE) K-43, Basement Kailash Colony, New Delhi - 110048	Member
7	<b>Mr. Sushil K Satpute</b> Director, Department of Industrial Policy & Promotion, Room No. 257-A, Udyog Bhawan, New Delhi – 110011	Member
8	<b>Mr. Ashiwini Mehra</b> Executive Secretary, Indian Society of Heating, Refrigerating and Air- Conditioning Engineers (ISHRAE) K-43, Basement Kailash Colony, New Delhi - 110048	Member
9	<b>Mr. Kamal Sharma</b> Counsellor, Confederation of Indian Industry (CII) CII-ITC Centre of Excellence for Sustainable Development Thapar House, 2nd Floor, 124 Janpath, New Delhi – 110001	Member
10	<b>Dr. Smita Mohanty</b> Director (Principal Scientist) Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, 488-B, 4th Floor, Block -2, KIADB Building, 14th Cross Peenya 2nd Stage, Bengaluru - 560058 Mobile – 09692895995 Email – apddrbbengaluru@gmail.com	Member
11	<b>Mr. Abhishek Acharya,</b> Joint Director, Department of Economic Affairs Ministry of Finance, (Economic Division), North Block, New Delhi – 110 001 Abhishek.acharya@nic.in Ph:-23093168	Member
12	<b>Mr. T.P. Ashwin,</b> Project Engineer, Bureau of Energy Efficiency (BEE), 4th Floor, Sewa Bhawan, R.K. Puram, New Delhi – 110066	Member

13	<b>Dr. Ashish Kumar,</b> Sr. Development Officer (Engg.) Division -Technical Officers ( Engg. Wing ) Room No 436-A, Department for Promotion of Industry and Internal Trade krashish@nic.in Ph: 2306 1147	Member
14	<b>Sh. Sirish Asthana,</b> Director, Ministry of Micro, Small & Medium Enterprises, HQ, OFFICE of DC-MSME "A" Wing 7th Floor, Nirman Bhawan, New Delhi-110108, PABX No-011-23063800 Room no:-719 Tel: 23062148 anil.tripathi@gov.in	Member
15	<b>Dr. J.D. Marcus Knight,</b> Scientist 'C' Ozone Cell, Ministry of Environment Forest & Climate Change, Government of India, Core IV B, 2nd Floor, India Habitat Centre, Lodhi Road, New Delhi – 110003	Special invitee
16	<b>Dr. R.S. Aggarwal</b> Professor (Retd.), IIT Delhi Core IV B, 2nd Floor, India Habitat Centre, Lodhi Road, New Delhi – 110 003	Special invitee
17	<b>Mr. Fahad Naim</b> Technical Officer - PMU Ministry of Environment and Forests, Core IV B, 2nd Floor, India Habitat Centre, Lodhi Road, New Delhi – 110003	Special invitee
18	<b>Dr. Amit Love</b> Scientist 'D', Ozone Cell, Ministry of Environment Forest & Climate Change, Government of India, Core IV B, 2nd Floor, India Habitat Centre, Lodhi Road, New Delhi – 110003	Member Secretary