

**MINUTES OF THE 43<sup>rd</sup> MEETING OF THE EMPOWERED STEERING COMMITTEE (ESC) FOR IMPLEMENTATION OF THE MONTREAL PROTOCOL HELD ON 21<sup>ST</sup> JANUARY, 2020 IN KAVERI CONFERENCE HALL, PRITHVI BLOCK, MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, INDIRA PARYAVARAN BHAWAN, JORBAGH ROAD, NEW DELHI 110003**

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The 43<sup>rd</sup> meeting of the Empowered Steering Committee (ESC) for implementation of the Montreal Protocol was held on 21<sup>st</sup> January, 2020 at 11.00 A.M in Kaveri Conference Hall, Prithvi Block, Ministry of Environment, Forest and Climate Change (MoEF&CC), Indira Paryavaran Bhavan, Jorbagh Road, New Delhi under the Chairmanship of Shri. C.K. Mishra Secretary (EF&CC). The list of participants is attached at **Annexure-I**.

The Chairman welcomed the participants to the 43<sup>rd</sup> meeting of the ESC. At the outset, Ms. Geeta Menon, Joint Secretary, MoEF&CC informed the Committee that the ESC chaired by the Secretary (EF&CC) is the apex decision making body for implementation of activities related to Montreal Protocol on Substances that deplete Ozone Layer. The Committee was informed that, in a significant first, amongst developing countries, India has been able to phase-out HCFC-141b from foam manufacturing sector at scale as on 1.1.2020, under the Montreal Protocol. Further, since the last meeting of the ESC, the India Cooling Action Plan (ICAP) has also been launched, which has been appreciated and recognized globally. The progress made in training and certification of technicians was also brought to the notice of ESC. The ESC was informed that these will be dealt in detail under separate agenda item.

The Member Secretary requested Joint Director, Ozone Cell, MoEF&CC to present the agenda for consideration of the Committee. The Agenda was considered ad seriatim. The annotated agenda and detailed agenda papers were earlier circulated to all the members. The Joint Director gave a presentation on the different agenda items (**Annexure-II**).

The agenda items considered and the decisions/observations of the ESC there upon are as follows:

**Agenda Item No. 1: Confirmation of Minutes of 42<sup>nd</sup> meeting of the Empowered Steering Committee (ESC)**

The Minutes of the 42<sup>nd</sup> meeting of the ESC were circulated to the members and as no comments were received, the Minutes of the 42<sup>nd</sup> meeting of the ESC held on 26<sup>th</sup> March, 2018 were confirmed.

**Agenda Item No. 2: Action taken on decisions of the 42<sup>nd</sup> ESC**

The brief item-wise Action Report was circulated along with agenda papers and was also presented to the Committee. It was mentioned that the following agenda items have been included for detailed deliberations:



- a) Balance payments to Indian Polyurethane Association (IPUA) for undertaking survey of enterprises in the foam sector for participation in HPMP Stage II. (Agenda item No 5)
- b) Upskilling air-conditioner service technicians under Pradhan Mantri Kaushal Vikas Yojana (Agenda Item No 9)

The ESC noted the Action Taken Report presented with respect to decisions taken in the 42<sup>nd</sup> meeting of the ESC.

### **Agenda item No. 3 : HCFC Phase out Management Plan (HPMP) Stage-II**

The ESC was briefed on the HCFC Phase out Management Plan (HPMP) Stage-II, approved by the Executive Committee (Ex-Com) of the Multilateral Fund (MLF) during its 77<sup>th</sup> meeting held during December 2016. Under the HPMP Stage-II the United Nations Development Programme (UNDP), the lead implementing agency was responsible for the investment activities in the foam and RAC manufacturing sectors. UN Environment and GIZ respectively were implementing agency for the enabling activities and activities in the RAC servicing sector.

The Committee was informed that in the implementation of technology conversion from HCFC-141b to non- Ozone Depleting Substance (ODS) and low-Global Warming Potential (GWP) technologies in foam sector, a total of 204 enterprises were identified of whom MoAs have been signed with 160 eligible enterprises with a total funding of USD 13.12 million.

The ESC was informed about the basis and principle adopted for determining the pro-rata basis on which enterprise-wise funding was calculated as also the eligible consumption for calculating the funding to be provided to the enterprises.

The ESC was informed that there were funds available in the foam sector plan, which could now be used for participating enterprises as they proceed with the technology conversion. The options available and plan for the same would be discussed during the mission of MPU officials scheduled during February 2020, taking into account the Ex-Com guidelines, the cost effectiveness and global practices.

The ESC was also informed about the Project Implementation framework including (i) Guidance and oversight (ii) Inclusion of enterprises in HPMP Stage-II, (iii) Implementation and (iv) Handholding/ Facilitation.

The ESC was informed that for Competency Enhancement of System Houses and foam manufacturing enterprises especially Micro, Small and Medium enterprises (MSMEs) participating in HPMP, a Memorandum of Agreement (MOA) has been signed between the Central Institute of Plastics Engineering & Technology (CIPET), Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India and the Project Management Unit, Ozone Cell, Ministry of Environment Forest and Climate Change (MoEF&CC), Government of India. This shall facilitate the



smooth and sustainable phase out of HCFC 141 b in the foam manufacturing sector of the country by 1.1.2020. The ESC sought further details on the nature of hand holding support provided by CIPET and Ozone Cell to MSME.

In the RAC sector, the ESC noted that out of the 6 enterprises implementing a phase-out of 1140 MT of HCFC-22, MOAs have been signed with 4 enterprises (917 MT of HCFC-22) and MOAs are yet to be signed with the balance 2 enterprises. With reference to the balance 2 enterprises, the MOA with one enterprise, M/s Videocon Limited, could not be signed as the enterprise had not come forward due to ongoing insolvency proceedings. With reference to the second enterprise, M/s Zamil Air conditioners, the plant and machinery of the factory has been purchased by M/s Subros. In place of M/s Zamil, M/s Subros has applied for funding with relevant documentation. The eligibility of M/s Subros needs to be assessed and further actions taken as per the agreement with Ex-Com of the MLF. The ESC was informed that the timeframe for the RAC sector implementation is 1.1.2023.

The details of the enterprises with whom MoAs had been signed were presented before the ESC :

Name of the Enterprise	Technology to be adopted No. of lines to be converted/total lines	Phase-out (MT) rounded off	ICC (USD)	IOC (USD)	Total (USD)
Blue Star Limited	2/3	133	949,025	836,892	1,785,917
Leel Electricals Limited	3/5	141*	977,350	891,022	1,868,372
E-Vision	2/4	113	862,400	711,900	1,574,300
Voltas Universal Comforts Pvt Ltd, (wholly owned subsidiary of Voltas)	1/1	529.65	966,900	3,336,795	4,303,695

*\*Shall phase out 180 MT based on re-verification with no escalation*

The ESC noted the following:

- (i) Progress made in implementation of HPMP Stage-II foam sector plan.
- (ii) Approval of the second tranche of US \$18,190,815 for HPMP Stage-II by the 82nd Meeting of the Ex-Com of the MLF held from 3rd to 7th December 2018.
- (iii) Principle adopted for determining the eligible consumption for calculating the funding to be provided to the enterprises.

The ESC accorded Ex-Post facto approval for the following:

- (i) Project Document (ProDoc) for the implementation of HPMP Stage-II.
- (ii) Detailed note sent to DEA pursuant to LPAC meetings.
- (iii) MoA between CIPET and Ozone Cell for Competency enhancement of System Houses, Micro Small and Medium Enterprises (MSME) in foam manufacturing.
- (iv) MoAs signed with foam manufacturing enterprises participating in HPMP Stage-II for technology conversion from ODSs to non-ODS low GWP technologies.

The ESC accorded approval for the extension of the MoAs of foam manufacturing enterprises till completion of the project, as appropriate.

Noting the progress made in implementation of HPMP Stage-II-RAC Sector, the ESC accorded Ex-Post facto approval for the MoAs signed with M/s Blue Star Limited, M/s Leel Electricals Limited, M/s E-Vision and M/s Voltas Universal Comforts Pvt Ltd, (wholly owned subsidiary of Voltas).

The ESC was also informed about the enabling activities under HPMP Stage-II where UNEP is the implementing agency as given below:

- ❖ Customs & Enforcement capacity building activities comprising of training of trainers, capacity building workshops for customs & enforcement officers, and border dialogue with neighbouring countries on specific ODS trade related aspects
- ❖ Promotion of non-ODS alternatives (in particular Low GWP technologies) public procurement practices
- ❖ Linkage of the Energy Efficiency and servicing practices for RAC products,
- ❖ Building sector interventions to understand the space cooling demand from Buildings in India and identify opportunities for non-ODS and low GWP Technology applications
- ❖ Standards for RAC Sector
- ❖ Cold Chain sector interventions to study the application of non ODS and low GWP technologies in Cold Chain sector in India
- ❖ Database of service technicians



The ESC was informed that three Small Scale Funding Agreements have been signed with UNEP for implementation of the above-referred activities.

The ESC was also informed about the activities under the HPMP Stage-II-RAC service sector where GIZ is the implementing agency, as given below:

- ❖ Training of 17000 RAC service technicians
- ❖ Certification System for RAC Technicians
- ❖ Institutional Strengthening
  - Training of Delhi Metro officials on Good Servicing Practices and alternative refrigerants for air-conditioners
  - Revision of Syllabus for ITIs to include information on alternative refrigerants and good service practices
  - Training of master trainers at ITIs

The ESC was informed about the MoA signed between GIZ and Ozone Cell for implementation of HPMP Stage-II Service Sector Plan.

Noting the progress on activities in the enabling component, the ESC accorded Ex-Post facto approval for the (i) SSFA signed on 28.06.2018 for the amount of USD 100,000 with Ref No. UNEP/SSFA/2018/SA/07-1 and subsequent amendment signed on 26.12.2019, (ii) SSFA signed on 28.06.2018 for the amount of USD 75,000 with Ref No. UNEP/SSFA/2018/SA/07-2 and subsequent amendment signed on 26.12.2019 and (iii) SSFA signed on 28.06.2018 for the amount of USD 70,000 with Ref No. UNEP/SSFA/2018/SA/07-3 and subsequent amendment signed on 26.12.2019

Noting the progress on activities in the RAC servicing Sector, the ESC accorded Ex-Post facto approval for the MoA signed between GIZ and Ozone Cell for the implementation of HPMP Stage-II – Service Sector Plan.

#### **Agenda Item No. 4: Complete phase out of HCFC 141 b in foam manufacturing**

In a significant first, amongst the Article 5 parties (developing countries) under the Montreal Protocol, India has been able to achieve the complete phase out of HCFC 141b in the foam manufacturing sector, as part of implementation of HPMP Stage II as on 31.12.2019. This has been achieved through systematic activities for (i) awareness raising and capacity building of stakeholders, (ii) enabling activities for institutional development, (iii) policy formulation and enforcement, and (iv) technology conversion of enterprises, in a structured manner. The ESC was informed that the complete phase out of HCFC 141 b from the country in foam sector is among the first at this scale in Article 5 parties (developing countries) under the Montreal Protocol.

The implementation of HPMP through regulatory and policy actions, implementation of technology conversion projects has removed around 7800 MT of



HCFC 141 b from the baseline level of 2009 and 2010 of the country. The important Policy actions include the following:

- (i) Amendment in Ozone Depleting Substances (Regulation and Control) Rules on 31.12.2019. Notification in the Gazette of India prohibiting issuance of import license for HCFC 141b
- (ii) Notice regarding amendment to Ozone Depleting Substances (Regulation and Control) Rules were sent to all the participating foam sector enterprises and those covered under survey by IPUA and verified by PWC.
- (iii) Letters also sent to DGFT regarding Amendment of Import policy to align with Ozone Depleting Substances (Regulation and Control) Amendment Rules.

The ESC was also informed that, the phase out of HCFC 141b from the country has twin environmental benefits viz. (i) assisting the healing of the stratospheric ozone layer, and (ii) towards the climate change mitigation due to transitioning of foam manufacturing enterprises at this scale under HPMP to low global warming potential alternative technologies.

The ESC noted the issuance of Ozone Depleting Substances (Regulation and Control) Amendment Rules, 2019, wherein, the issuance of license for import of HCFC-141b has been prohibited from 1st January, 2020.

**Agenda Item No. 5: Balance payments to Indian Polyurethane Association (IPUA) for undertaking survey of enterprises in the foam and refrigeration and air conditioning sector respectively, for participation in HPMP Stage II.**

The total value of contract with IPUA is Rs. 55 Lakhs, out of which, Rs. 33 Lakhs has been released and Rs. 22 Lakhs is yet to be received. The enterprise-wise survey was conducted by IPUA in 2015.

The detailed status of physical verification carried out is given below:

S. No	Particulars	No. of enterprises
1	Number of enterprises eligible as per third party physical verification out of IPUA survey of 413 enterprises	91
2	Enterprises eligible but one or more documents pending	37
3	Enterprise have not provided documents to establish eligibility for funding	55
4	Enterprises not eligible	7
5	Enterprise does not exist at the given address, incomplete contact details, Address of	34



	enterprise could not be located, locked and contact with owner could not be established	
6	Duplicate entries	7
7	Enterprise not interested in HPMP stage-2 funding and no declaration provided, but declaration is provided	182
Total		413

As per the Agreement with IPUA one of the deliverables is "Enterprise-wise data including date of establishment, product, production capacity, baseline equipment, consumption of HCFCs for the past five years, choice of non-HCFC technologies, etc."

Under general provisions of the agreement clause 5.2 "The IPUA shall carry out all activities under this MoA with due diligence and efficiency."

The matter was discussed in detail. The ESC decided that IPUA may be asked to provide clarification as to how only 91 enterprises were found to be eligible out of the list of 413 enterprises provided by IPUA. Based on the satisfactory response from IPUA, the balance payment may be released to IPUA.

#### **Agenda Item No. 6: Institutional Strengthening Project (ISP) Cycle XII.**

The ESC noted that funding for the ISP is approved to countries on a 2-year cycle based on the renewal request submitted by the country through the implementing agency, including the progress report for the previous cycle. UNDP is the implementing agency for India's ISP.

Also the 84<sup>th</sup> Meeting of Executive Committee (Ex-Com) of the Multilateral Fund (MLF) for Implementation of the Montreal Protocol held from 16-20 December 2019, approved the phase XII of the ISP for the period December 2019 to November 2021 with a funding of US\$ 477,734 plus implementing agency support costs.

#### **Agenda Item No. 7: Meeting of Parties (MOP) to the Montreal Protocol and Executive Committee (Ex-Com) of the Multilateral Fund (MLF) – Kigali Amendment to the Montreal Protocol – Issues related to cost Guidelines, Energy efficiency, etc.**

The ESC was informed that India has piloted the following decisions at Meeting of Parties:

- (a) Decision XXX/4 on the Executive Committee of the Multilateral Fund to keep presenting the progress in the development of the guidelines to the Parties



annually and also obtain comments and views of the parties before finalization of the guidelines.

- (b) Decision XXXI/7 on continued provision of information on energy-efficient and low – global – warming - potential technologies.
- (c) Decision XXXI/8 on Terms of reference of the Technology and Economic Assessment Panel and its technical options committees and temporary subsidiary bodies specifically on the procedures relevant to nominations.

The ESC noted the adoption of Decision XXX/4, XXXI/7 and XXXI/8 in the Meeting of Parties based upon the Conference Room Paper (CRP) submitted by India and like-minded Parties. The ESC also noted the active participation of Indian delegation in the Montreal Protocol Bodies.

#### **Agenda Item No. 8: India Cooling Action Plan (ICAP)**

The ICAP was launched on 8<sup>th</sup> March, 2019 by Dr. Harsh Vardhan the then Honble Minister for Environment, Forest and Climate Change.

India is one of the first countries in the world to develop a comprehensive Cooling Action plan which has a long term vision to address the cooling requirement across sectors and lists out actions which can help reduce the cooling demand. This will also help in reducing both direct and indirect emissions.

The United Nations Secretary General in his message on World Ozone Day 2019 has highlighted the need for all countries to develop National Cooling Action Plans. This step taken by India has led to a global recognition of this important policy initiative which can help in climate action and achievement of sustainable development goals.

The Ministry has constituted the Steering Committee having inter – Ministerial representation from concerned Ministries and has representatives of State Governments. Six thematic groups have been constituted to operationalize the recommendations given in the ICAP.

The ESC noted the release of the India Cooling Action Plan and that India is one of the first countries to develop a comprehensive Cooling Action Plan. The ESC accorded Ex-Post facto approval for constitution of the Steering Committee and the Thematic Working Groups for the implementation of the recommendations of the ICAP.



### **Agenda Item No. 9: Upskilling air-conditioner service technicians under Pradhan Mantri Kaushal Vikas Yojana**

A Memorandum of Understanding (MoU) had been signed between the Ministries of Environment, Forest and Climate Change and Ministry of Skill Development and Entrepreneurship, Government of India on 2nd August 2018 to upskill and certify 100,000 Refrigeration and air-conditioning (RAC) service technicians on good servicing practices and knowledge of alternative refrigerants to ozone-depleting chemicals under the Skill India Mission - Pradhan Mantri Kaushal Vikas Yojana (PMKVY).

Under Phase-I of the project 20,000 Service Technicians have been upskilled and certified at 89 cities/towns across the country by Electronic Sector Skill Council of India (ESSCI).

Post the third party assessment and review by the Project Advisory Committee, the National Skill Development Corporation (NSDC) has allocated a target of 40,000 service technicians for skilling and certification by ESSCI for Phase-II. The representative from MSME sought further information on the benefits provided to the RAC service technicians under the certification programme and also the mode and methodology of training.

The ESC noted the progress made in skilling and certification of RAC service technicians. ESC accorded Ex-Post facto approval for the MoU signed between MoEF&CC and MSDE for skilling and certification of 100,000 RAC service technicians under Pradhan Mantri Kaushal Vikas Yojana.

### **Agenda Item No. 10 : Submission of Article 7 of the Montreal Protocol to the Ozone Secretariat and Country Programme Progress Report (CPPR) to the Multilateral Fund Secretariat for the year 2017 and 2018.**

The ESC was briefed that each year data on production, consumption, import and export is to be submitted to the Ozone Secretariat under Article 7 of the Montreal Protocol and Country Program Progress Report (CPPR) to the MLF Secretariat and accordingly data has been submitted for the year 2017 and 2018.

The ESC accorded Ex-Post Facto approval for submission of Article 7 of the Montreal Protocol to the Ozone Secretariat and CPPR to the Multilateral Fund Secretariat for the 2017 and 2018.

### **Agenda Item No. 11 : Fiscal Incentive Scheme**

The ESC accorded Ex-Post facto approval for the recommendations of the Technology and Finance Standing Committee (TFSC) in its meeting held on 16<sup>th</sup> February, 2018 and 16<sup>th</sup> November, 2018 for the 3 applications for grant of customs duty exemption, which had been approved by Secretary, EF&CC in his capacity as Chairman, ESC.



## **Agenda Item No. 12 : World Ozone Day 2018 and 2019.**

The ESC noted the activities undertaken on the World Ozone Day for the year 2018 and 2019. Representative from MSME sought clarification on whether the knowledge products and instructional videos developed by Ozone Cell are available to stakeholders. It was clarified that all the knowledge products and instructional videos were available on the website of Ozone Cell.

After consideration of specific agenda items the Chair requested comments/suggestions/views from members.

Prof. R. Gopichandran appreciated the significant achievements made by the Ozone Cell on various activities specially with respect to phase-out of HCFC-141b in foam manufacturing sector and India Cooling Action Plan. He suggested that amongst the activities being undertaken by the Ozone Cell, the activity related to science of Ozone Depleting Substance and Ozone Layer should be further strengthened and taken up. Shri Pawanesh Kohli, stated the efforts made by Ozone Cell are laudatory and needs appreciation and support. He suggested that letter of appreciation may be issued to Ozone Cell on its achievements. The tremendous effort in bringing out ICAP needs to be recognized and the members/institutions involved in development of ICAP need appreciation. It was also emphasized that Ozone Cell made a significant achievement in phasing out HCFC-141b from the country as on 1.1.2020

The meeting ended with thanks to the Chair.

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LIST OF PARTICIPANTS

1.	Shri. C.K. Mishra Secretary Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan JorBagh Road New Delhi 110003
2.	Shri S.P. Singh Parihar, IAS Chairman Central Pollution Control Board (CPCB), Parivesh Bhawan, CBD-cum Office Complex East Arjun Nagar, Shahadara New Delhi – 110032 Email: ccb.cpcb@nic.in
3.	Dr Ajay Mathur, Director-General The Energy and Resources Institute (TERI), 6C Darbari Seth Block, India Habitat Centre Complex, Lodhi Road, New Delhi 110003 Email: dg@teri.res.in
4.	Shri Ravi Shankar Prasad Additional Secretary Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan JorBagh Road New Delhi 110003
5.	Ms. Geeta Menon Joint Secretary Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan JorBagh Road New Delhi 110003
6.	Dr. Amit Love, Joint Director, Ozone Cell Ministry of Environment, Forests and Climate Change, Core IV B, 2nd Floor India Habitat Centre Lodhi Road, New Delhi
7.	Mr. J.D. Markus Knight Dy. Director, Ozone Cell Ministry of Environment, Forests and Climate Change, Core IV B, 2nd Floor India Habitat Centre Lodhi Road, New Delhi



8.	Dr. A. Ramesh Kumar, Sr. Scientist, CSIR-National Environmental Engineering Research Institute, Nehru Marg, Nagpur 440 020 Ph: 9427326180 <a href="mailto:ar_kumar@neeri.res.in">ar_kumar@neeri.res.in</a>
9.	Dr. R. Gopichandran, Prof. NTPC School of Business, Faridabad <a href="mailto:r.gopichandran61@gmail.com">r.gopichandran61@gmail.com</a>
10.	Mr. Nikhil Kanodia Director, DPIIT, Ministry of Commerce & Industry Room No. 251, 2 <sup>nd</sup> Floor, Udyog Bhawan, New Delhi – 110011 Ph: 23063596 <a href="mailto:nikhil.kanodia@gov.in">nikhil.kanodia@gov.in</a>
11.	Mr. Vishal Pratap Singh Deputy Secretary, Department of Economic Affairs Ministry of Finance 51B, North Block, New Delhi – 110 001 <a href="mailto:vp.singh83@gov.in">vp.singh83@gov.in</a>
12.	Mr. Puneet Jain, CA Ministry of Petroleum & Natural Gas, Room No. 312 B, Shastri Bhawan, New Delhi-110001 <a href="mailto:puneet.jain84@nic.in">puneet.jain84@nic.in</a> ;
13.	Shri Dinabandhu Gouda Scientist 'E' Central Pollution Control Board (CPCB), Parivesh Bhawan, CBD-cum Office Complex East Arjun Nagar, Shahadara New Delhi – 110032 <a href="mailto:dinabandhu.cpcb@nic.in">dinabandhu.cpcb@nic.in</a>
14.	Dr. Preeti Srivastava Sr. Scientist Council of Scientific Industrial Research (CSIR), Room No. 304, RPPBDD Department, Anusandhan Bhawan, 2, Rafi Marg, New Delhi – 110001 Ph: 9454836680 <a href="mailto:srivaspreeti@csir.res.in">srivaspreeti@csir.res.in</a>




15.	Mr. Puru Gupta Dy. Secy. Ministry of Commerce & Industry, Room No. 279, Udyog Bhawan New Delhi - 110011 <a href="mailto:d2tpd-doc@nic.in">d2tpd-doc@nic.in</a>
16.	Mr. Kamal Sharma Councillor CII-ITC Centre of Excellence for Sustainable Development Thapar House, 2nd Floor, 124 Janpath, New Delhi 110001 <a href="mailto:kamal.sharma@cii.in">kamal.sharma@cii.in</a>
17.	Ms. Esha Srivastava Director (IC) Ministry of Petroleum & Natural Gas, Room No. 207-B, Shastri Bhawan, New Delhi-110001 <a href="mailto:dsic.png@gov.in">dsic.png@gov.in</a>
18.	Shri Pawanesh Kohli, Chief Advisor and CEO, National Centre for Cold-chain Development (NCCD), Department of Agriculture, Cooperation & Farmers Welfare Ministry of Agriculture and Farmers Welfare, Govt. of India II-Floor, B-Wing, Janpath Bhawan, New Delhi-110001 <a href="mailto:advisor-nccd@gov.in">advisor-nccd@gov.in</a>
19.	Shri O.P. Mehta Director - Coordination Ministry of Micro, Small and Medium Enterprises (MSME), Room No. 713, A-Wing, 7 <sup>th</sup> Floor, Nirman Bhavan, New Delhi – 110011 <a href="mailto:opmehta@dcmsme.gov.in">opmehta@dcmsme.gov.in</a> ;
20.	Ms. Shruti Issar Assistant Director Environment and Climate Change Division, Federation of Indian Chambers of Commerce and Industry (FICCI), Federation House, Tansen Marg, New Delhi – 110 001 <a href="mailto:shruti.issar@ficci.com">shruti.issar@ficci.com</a>
21.	Dr. Susheela Negi Scientist 'E' Ministry of Science & Technology, Department of Science & Technology, SNT Block 1, Room No. 2D Technology Bhavan, New Mehrauli Road, New Delhi – 110016 <a href="mailto:susheela.n@nic.in">susheela.n@nic.in</a>





22.	Dr. Rita Roy Chowdhury, Assistant Secretary General, Environment and Climate Change Division, Federation of Indian Chambers of Commerce and Industry (FICCI), Federation House, Tansen Marg, New Delhi – 110 001 <a href="mailto:rita.roychowdhury@ficci.com">rita.roychowdhury@ficci.com</a>
23.	Dr. Vishal Chaudhary Dy. Industrial Adviser Ministry of Chemicals & Fertilizers, Department of Chem. & Petro-Chemicals, Room No. 217-A SB, A-Wing, Shastri Bhavan, New Delhi – 110001 <a href="mailto:chaudhary.vishal@gov.in">chaudhary.vishal@gov.in</a>
24.	Dr. Anant Shukla, AGM (Tech), Energy Efficiency Services Limited (EESL), 4 <sup>th</sup> & 5 <sup>th</sup> Floor, IWAI Building, A-13, Sector-1, Noida – 201301, U.P. <a href="mailto:ashukla@eesl.co.in">ashukla@eesl.co.in</a>
25.	Mr. S.V. Subba Rao National Program Manager SPPU – UNDP New Delhi
26.	Mr. Fahad Naim Ozone Cell New Delhi
27.	Mr. Sharad Chouriha MIS, Ozone Cell Ministry of Environment, Forests and Climate Change, Core IV B, 2 <sup>nd</sup> Floor India Habitat Centre Lodhi Road, New Delhi
28.	Ms. Chanchal Sharma Technical Officer, Ozone Cell Ministry of Environment, Forests and Climate Change, Core IV B, 2 <sup>nd</sup> Floor India Habitat Centre Lodhi Road, New Delhi






# XXXXIII MEETING OF THE EMPOWERED STEERING COMMITTEE FOR IMPLEMENTATION OF THE MONTREAL PROTOCOL





OZONE CELL  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE  
GOVERNMENT OF INDIA  
21.01.2020



## AGENDA

Item No. 1: Confirmation of Minutes of XXXXII meeting of the Empowered Steering Committee (ESC)

Item No. 2: Action taken on decisions of the XXXXII ESC

Item No. 3: HCFC Phase out Management Plan (HPMP) stage-II  
a. Investment Projects-Foam manufacturing and RAC Sector - UNDP  
b. Enabling Activities- UN Environment  
c. RAC Servicing Sector - GIZ

Item No. 4: Complete Phase out of HCFC 141 b on 1st January, 2020

Item No. 5: Balance payments to Indian Polyurethane Association (IPUA) for undertaking survey of enterprises in the foam and refrigeration and air conditioning sector respectively, for participation in HPMP Stage II

2





## **AGENDA** *(contd..)*

- Item No. 6:** Institutional Strengthening Project (ISP) Cycle XII
- Item No. 7:** Meeting of Parties (MOP) to the Montreal Protocol and Executive Committee (Ex-Com) of the Multilateral Fund (MLF) – Kigali  
Amendment to the Montreal Protocol – Issues related to cost Guidelines, Energy efficiency, etc
- Item No. 8:** India Cooling Action Plan
- Item No. 9:** Upskilling air-conditioner service technicians under Pradhan Mantri Kaushal Vikas Yojana
- Item No. 10:** Submission of Article 7 of the Montreal Protocol to the Ozone Secretariat and Country Programme Progress Report (CPPR) to the Multilateral Fund Secretariat for the year 2017 and 2018

3



## **AGENDA** *(contd..)*

- Item No. 11:** Fiscal Incentives Scheme
- Item No. 12:** World Ozone Day 2018 and 2019
- Item No.13:** Any other matters with permission of the Chair

4



## ITEM NO. 1: CONFIRMATION OF MINUTES OF THE XXXXII ESC MEETING

- ☐ Minutes of the XXXXII Meeting of the ESC held on 26<sup>th</sup> March, 2018 were circulated to all the Members.
- ☐ No comments have been received.
- ☐ The minutes may be confirmed.

5



## ITEM NO. 2: ACTION TAKEN ON DECISIONS OF THE XXXXII ESC

No	Decision taken in XXXXII ESC	Action taken on the decision
1.	<p><u>Agenda Item No. 4- National Cooling Action Plan (NCAP)</u></p> <p>Launch of NCAP on World Ozone Day scheduled to be held on 16th September, 2018.</p>	<p>Draft India Cooling Action Plan (ICAP) was launched on the occasion of World Ozone Day on 16th September, 2018 by the then Hon'ble Minister of Environment, Forest and Climate Change.</p> <p>India Cooling Action Plan was launched on 8th March, 2019 by the then Hon'ble Minister of Environment, Forest and Climate Change.</p>
2.	<p><u>Agenda Item No. 6 – HPMP Stage-II</u></p> <p>Balance payment to Refrigeration and Airconditioning Manufacturing Association (RAMA) as per procedure on completion of milestones as all the participating enterprises in RAC sector have been re-verified and To await the reverification of enterprises with respect to the foam sector and process for payments to Indian Polyurethane Association (IPUA) subsequently as appropriate on consideration of reverification of enterprises.</p>	<ul style="list-style-type: none"> <li>• Balance payment of Rs. 25.20 lakhs was released to RAMA on completion of milestones as all the participating enterprises in RAC sector had been re-verified after approval of Competent Authority.</li> <li>• It may be noted that IPUA was given inter alia the responsibility of conducting the enterprise-wise survey of foam manufacturing enterprises for participation in HPMP Stage-II and also the strategy for phase-out of HCFC-141b. As per the IPUA survey 413 foam manufacturing enterprises spread across the Country were used to develop HPMP Stage-II proposal. On third party reverification only 96 enterprises were found eligible from 413 enterprises. The results of the third party reverification of foam manufacturing enterprises are detailed in Agenda item no. 5</li> </ul>

6





## ITEM NO. 2: ACTION TAKEN ON DECISIONS OF THE XXXXII ESC

No	Decision taken in XXXXII ESC	Action taken on the decision
3.	<p><u>Agenda Item No. 7- HPMP Stage-I</u></p> <p>Works under enabling activities of UN Environment under HPMP Stage-I need to be expedited for completion of remaining activities at the earliest.</p>	<p>The Project Completion Report for HPMP Stage-I including for enabling activities has been submitted to the Multilateral Fund Secretariat and the same was noted by the Ex-Com in its 82nd meeting held in December 2018.</p>
4.	<p><u>Agenda Item No. 8- Submission of Article 7 and Country Programme Progress Report (CPR) for the year 2016.</u></p> <p>Chairman, Central Pollution Control Board, who is also the Chairman, Standing Committee on Monitoring which reviews the Article-7 and CPR data and recommends the same for submitting to Ozone Secretariat and MLF Secretariat, observed that presently the data reported is based upon information provided by producers the same could be further strengthened by considering the data reported by the enterprises under the Consent mechanism and Environment Statement.</p>	<p>Since then while obtaining documentation for preparation of Article 7 data, the Environment Statement is obtained from the HCFC-22 manufacturers in the Country.</p>

7



## ITEM NO. 2: ACTION TAKEN ON DECISIONS OF THE XXXXI ESC

No	Decision taken in XXXXI ESC	Action taken on the decision
4.	<p><u>Agenda Item No. 9 - Collaborative Research Programme</u></p> <p>Expedite implementation of activities proposed under the collaborative research programme in collaboration with DST/CSIR.</p>	<p>A separate section has been included in the India Cooling Action Plan.</p> <p>The alternative technologies available for transitioning away from HFCs in various sectors are heavily patented by multinational companies. It will be of immense value if institutions of DST and CSIR could become partners in this programme for working on this priority area in a mission mode.</p> <p>A project on "Development of a process for 2,3,3,3-Tetrafluoropropene (HFO-1234yf)" received from IICT, Hyderabad had been forwarded to DST. The project had since been approved by DST and progress reviewed by the concerned expert Committee. The project is under implementation.</p> <p>Separately an MOU has signed with CIPET to develop national R&amp;D and technical capacities in alternative foam blowing agent and the foam manufacturing sector</p>

8



## ITEM NO. 2: ACTION TAKEN ON DECISIONS OF THE XXXXII ESC

No	Decision taken in XXXXII ESC	Action taken on the decision
6.	<p><u>Agenda Item No. 10 - Service Sector Plan by ESSCI under PMKVY</u></p> <p>Reference may be sent from Secretary, EFCC to Secretary, Ministry of Skill Development requesting to expedite the matter and advised to take action on the same at the earliest.</p>	<p>The Memorandum of Agreement (MoA) for skilling and certifying 100,000 RAC service technicians has been signed between Ministry of Environment, Forest and Climate Change (MoEFCC) and Ministry of Skill Development and Entrepreneurship (MSDE) on 2nd August, 2018.</p> <p>20,000 service technicians has been trained under Phase-I of the project and an additional 40,000 service technicians will be trained under Phase-II. The details are provided under separate Agenda item No. 9</p>

9



## AGENDA ITEM 3: HCFC PHASE OUT MANAGEMENT PLAN (HPMP) STAGE-II

- Approved in the 77<sup>th</sup> meeting of the Ex-com of the MLF for the period 2016-2023 with a funding support of US\$ 48.32 million including Implementing agency's support costs

Activities	Implementing Agency	MLF Funding million USD
Investment Component -conversion to non-HCFC and low GWP technologies in Foam and Air-conditioning Manufacturing enterprises Project Management Support	UNDP	38
Refrigeration and Air-Conditioning Servicing Sector	GIZ Proklima	5.1
Enabling activities	UN Environment	0.9

1<sup>st</sup> Tranche: 10.62 million USD (2016),  
2<sup>nd</sup> Tranche: 18.19 million USD (2018)

10



## HPMP STAGE-II- Cont. SECTOR LEVEL PHASE OUT

	Metric Tonne	ODP Tonne
<b>Foam Manufacturing</b> (complete phase-out of remaining consumption of HCFC-141b from the baseline to be phased out as on 1.1.2020)	*5800	638.00
<b>Air-conditioning Manufacturing</b>	1140	62.73
<b>RAC Servicing</b>	1250	68.76
<b>Total</b>	<b>8190</b>	<b>769.49</b>
* Through technology conversion in foam manufacturing enterprises and policy initiatives		

Direct GHG emissions reduction by 2030 on per year basis : 7.69 MT CO2 eq

## HPMP STAGE-II - PROGRESS ON IMPLEMENTATION

### FOAM SECTOR - UNDP

Particulars	No. of Enterprises	HCFC-141b Phase-out Quantity (MT)	Funding allocated (US D)
Total enterprises surveyed	628 (413+79+145)		
Enterprises with whom MOAs signed	160	2630.15	13.12 million
Enterprises to phase-out HCFC-141b without funding	44	682.28	-
<b>Total</b>	<b>204</b>	<b>3312.43</b>	<b>13.12 million</b>



### **Principle for determining eligible consumption for funding to enterprises**

The Executive Committee of the MLF approved 65.76% of the total consumption posed for funding as eligible consumption (3166 Metric tonnes). HPMP Stage II document launched with Pro rata reduction of eligible consumption to 65.76 %

The third party verification agency verified consumption provided by each enterprises and its eligibility to participate in HPMP Stage II.

Two consumption figures for HCFC 141 b, for determining the eligible consumption of HCFC 141b one from the HPMP Stage-II document and the other verified by M/s PWC.



### **Principle for determining eligible consumption for funding to enterprises - contd**

The following principle was approved by Competent Authority for the foam manufacturing enterprises:

- (i) Enterprise shall be eligible to the funding mentioned in HPMP Stage-II document, only
- (ii) Increase in consumption (third party verified consumption) shall be phased out at the same level of funding given in HPMP Stage-II documents with no additional funding
- (iii) Where the actual consumption after verification has decreased, the lower funding level relatable to consumption at the rate of USD 7.58/kg shall be given.





### Principle for determining eligible consumption for funding to enterprises - contd

- Special dispensation for Micro and Tiny enterprises (@ 10.61 USD/kg )
- Enterprises where large difference is present between eligible consumption given in HPMP Stage-II document and eligible consumption verified by M/s PWC.
- Enterprises having manual mixing for foam manufacturing at the time of cut-off date i.e. 21st September, 2007 but have acquired equipment after the cut-off date
- Multiple manufacturing lines serviced by 1 eligible dispenser
- Fixed funding for extremely tiny enterprises below benchmark consumption threshold transitioning low GWP alternatives blowing agents



### PROGRESS ON IMPLEMENTATION

*Contd..*

#### RAC SECTOR- UNDP

Particulars	No. of Enterprises	Phase-out of HCFC-22 (MT)
Number of large Air-conditioning manufacturing enterprises included in HPMP Stage-II, that volunteered to participate	6	1140
MOAs signed	4	917
MOAs to be signed	2	223



## **HPMP STAGE-II – FOAM SECTOR NEXT STEPS / WAY FORWARD**

- ☐ Regular monitoring of enterprise level conversion activities – Monthly review meeting with participating enterprises
- ☐ Competency enhancement of the participating enterprises, particularly, MSMEs, through CIPET
- ☐ Facilitation for integration of conversion activities by creating tie-up with CIPET for testing of formulations, trials, etc.
- ☐ Coordinate the physical verification of achievement of milestones by participating enterprises by an agency appointed by UNDP
- ☐ Trade control and enforcement



## **HPMP STAGE-II Project Implementation framework**

### **GUIDANCE AND OVERSIGHT**

Two Tiered mechanism:

- ☐ Project Steering Committee and Empowered Steering Committee

### **INCLUSION OF ENTERPRISES IN HPMP STAGE II**

- ☐ Third Party Physical Verification – Eligibility and HCFC 141 b consumption
- ☐ Technical Scrutiny - Montreal Protocol Unit, UNDP, Bangkok

### **IMPLEMENTATION**

- ☐ Performance based Enterprise wise MoA
- ☐ Technical Scrutiny for completion of milestones MPU, UNDP
- ☐ Third Party verification of select milestones

### **HANDHOLDING /FACILITATION**

- ☐ CIPET
- ☐ Ozone Cell





## **HPMP STAGE-II – ENABLING COMPONENT- UN ENVIRONMENT**

- ☐ Customs & Enforcement capacity building activities comprising of training of trainers, capacity building workshops for customs & enforcement officers, and hold border dialogue with neighbouring countries on specific ODS trade related aspects
- ☐ Promotion of non-ODS alternatives (in particular Low GWP technologies) public procurement practices
- ☐ Linkage of the Energy Efficiency and servicing practices for RAC products,
- ☐ Building sector interventions to understand the space cooling demand from Buildings in India and identify opportunities for non-ODS and low GWP Technology applications
- ☐ Standards for RAC Sector
- ☐ Cold Chain sector interventions to study the application of non ODS and low GWP technologies in Cold Chain sector in India
- ☐ Database of service technicians



## **HPMP STAGE-II – RAC SERVICING SECTOR – GIZ Proklima**

- ☐ Training of 17000 RAC service technicians
- ☐ Certification System for RAC Technicians
- ☐ Institutional Strengthening
  - ☐ Training of Delhi Metro officials on Good Servicing Practices and alternative refrigerants for air-conditioners
  - ☐ Revision of Syllabus for ITIs to include information on alternative refrigerants and good service practices
  - ☐ Training of master trainers at ITIs



## **INVESTMENT PROJECTS (FOAM MANUFACTURING SECTOR) – UNDP**

PROPOSALS BELOW ARE SUBMITTED FOR CONSIDERATION OF ESC AS FOLLOWS:

- (i) To note:
  - Progress made in Implementation of HPMP Stage-II foam sector plan.
  - Approval of the second tranche of US \$18,190,815 for HPMP Stage-II by the 82nd Meeting of the Ex-Com of the MLF held from 3rd to 7th December 2018.
  - Principle adopted for determining the eligible consumption for calculating the funding to be provided to the enterprises
- (ii) Ex-post facto approval:
  - Project Document (ProDoc) for the Implementation of HPMP Stage-II
  - Detailed note sent to DEA pursuant to LPAC meetings inter alia (i) Administrative Structure of the Project, (ii) Clear commitments/responsibilities of UNDP in the project, (iii) Timeline deliverables etc.



### **a) INVESTMENT PROJECTS (FOAM MANUFACTURING SECTOR) – UNDP Contd**

PROPOSALS BELOW ARE SUBMITTED FOR CONSIDERATION OF ESC AS FOLLOWS:

Ex-post facto approval:

- MoA between CIPET and Ozone Cell for Competency enhancement of System Houses, Micro Small and Medium Enterprises (MSME) in foam manufacturing.
- MoAs signed with foam manufacturing enterprises participated in HPMP Stage-II for technology conversion from ODSs to non-ODS low GWP technologies.

Approve:

- Extension of the MoAs of foam manufacturing enterprises till completion of the project. The progress of the project would be overseen by the Project Steering Committee and will also be reported to the next ESC meeting.





a) **INVESTMENT PROJECTS (RAC MANUFACTURING SECTOR) – UNDP**

PROPOSAL FOR APPROVAL OF ESC:

- (i) To note the progress made in implementation of HPMP Stage-II – RAC Sector.
- (ii) Ex-post facto approval is requested for the MoAs signed with M/s Blue Star Limited, M/s Leel Electricals Limited, M/s E-Vision and M/s Voltas Universal Comforts Pvt Ltd, (wholly owned subsidiary of Voltas).



(b) **HPMP STAGE – II ENABLING COMPONENT – UN ENVIRONMENT**

PROPOSAL FOR APPROVAL OF ESC:

Ex-Post facto approval is requested for the following:

- i. SSFA signed on 28.06.2018 for the amount of USD 100,000 with Ref No. UNEP/SSFA/2018/SA/07-1 and subsequent amendment signed on 26.12.2019
- ii. SSFA signed on 28.06.2018 for the amount of USD 75,000 with Ref No. UNEP/SSFA/2018/SA/07-2 and subsequent amendment signed on 26.12.2019
- iii. SSFA signed on 28.06.2018 for the amount of USD 70,000 with Ref No. UNEP/SSFA/2018/SA/07-3 and subsequent amendment signed on 26.12.2019



**(c) RAC SERVICING SECTOR- GIZ PROKLIMA**

**PROPOSAL FOR APPROVAL OF ESC:**

- (i) To note that the activities under HPMP Stage II in the Service Sector component being implemented by GIZ.
- (ii) Ex-post facto approval is requested for the MoA signed between GIZ and Ozone Cell for the implementation of HPMP Stage-II – Service Sector Plan.



**AGENDA ITEM 4: COMPLETE PHASE OUT OF HCFC 141b IN FOAM MANUFACTURING**

- ☐ First country in Article 5 Parties (developing countries)
- ☐ Phase out of 7800 MT of HCFC 141b from baseline level of 2009 and 2010 through policy actions and phase out projects. Policy actions include
  - ☐ Amendment in ODS (Regulation and Control) Rules on 31.12.2019. Notification in the Gazette of India prohibiting issuance of import license for HCFC 141b
  - ☐ Notice sent to all the participating foam sector enterprises and those covered under survey by IPUA and Verification by PWC regarding the amendment to ODS Rules
  - ☐ Letters also sent to customs, enforcement and other nodal agencies including DGFT regarding the amendment to ODS Rules
- ☐ Twin environmental benefits of healing the<sup>^</sup> Stratospheric Ozone Layer and mitigation of climate change





**AGENDA ITEM NO. 4: COMPLETE PHASE OUT OF HCFC 141b  
IN FOAM MANUFACTURING**

**PROPOSAL FOR APPROVAL OF ESC:**

- (i) To note the actions taken for complete phase-out of HCFC-141b from the country through technology conversions at enterprise level, statutory and policy changes, awareness generation and stakeholder engagement.
- (ii) To note the issuance of Ozone Depleting Substances (Regulation and Control) Amendment Rules, 2019, wherein, the issuance of license for import of HCFC-141b has been prohibited starting 1st January, 2020.



**AGENDA ITEM NO. 5: BALANCE PAYMENTS TO INDIAN POLYURETHANE ASSOCIATION (IPUA) FOR UNDERTAKING SURVEY OF ENTERPRISES IN THE FOAM AND REFRIGERATION AND AIR CONDITIONING SECTOR RESPECTIVELY, FOR PARTICIPATION IN HPMP STAGE II.**

- Contract with IPUA for Rs 55 lakhs for undertaking survey of foam manufacturing enterprises for participation in HPMP Stage-II. Balance payment of Rs. 22 lakhs is yet to be made
- In the re-verification of 413 enterprises, as per the decision of the ESC, only 91 enterprises could be found eligible for inclusion in HPMP Stage-II.
- Due diligence and efficiency in carrying out activities as per MOA

**PROPOSAL FOR CONSIDERATION OF ESC**

The ESC may like to consider the status of third party physical verification vis-à-vis the enterprise level survey data provided by M/s IPUA as part of their contract and take an appropriate view on the balance payments.



**AGENDA ITEM NO. 6: INSTITUTIONAL STRENGTHENING  
PROJECT (ISP) PHASE XII**

- Funding for Institutional Strengthening from MLF on a 2 yearly cycle for developing and strengthening human and institutional infrastructure for expeditious implementation of phase out projects
- Phase XII of the ISP approved by the Ex-Com of the MLF in its 84 meeting held in December 2019 for the period December 2019 to November 2021 with a funding of US\$ 477734 plus implementation agency support costs

**The ESC may note the information.**



**AGENDA ITEM NO. 7: MEETING OF PARTIES (MOP) TO THE  
MONTREAL PROTOCOL AND EXECUTIVE COMMITTEE (EX-COM) OF  
THE MULTILATERAL FUND (MLF) – KIGALI AMENDMENT TO THE  
MONTREAL PROTOCOL – ISSUES RELATED TO COST GUIDELINES,  
ENERGY EFFICIENCY, ETC.**

- Decision XXIX/10 on Issues related to energy efficiency while phasing down HFCs
- Report of Technology and Economic Assessment Panel acknowledging use of more energy-efficient equipment during phase down of HFCs will lead to doubling the total reduction of greenhouse gases emissions both from direct and indirect sources
- Decision XXX/4 of the 30<sup>th</sup> MOP for the Executive Committee to keep presenting the progress in the development of the guidelines to the Parties annually and also obtain comments and views of the parties before finalization of the guidelines.
- The Indian Delegation played an important role in finalization and approval of Data Reporting formats to be used under the Kigali Amendment to the Montreal Protocol for production, export, import etc.
- Decision XXXI/7 on continued provision of information on energy-efficient and low GWP technologies
- Decision XXXI/8 on Terms of reference of the Technology and Economic Assessment Panel and its technical options committees and temporary subsidiary bodies specifically on the procedures relevant to nominations.





**AGENDA ITEM NO. 7: MOP AND EX-COM OF THE MLF – KIGALI AMENDMENT TO THE MONTREAL PROTOCOL – ISSUES RELATED TO COST GUIDELINES, ENERGY EFFICIENCY, ETC. Contd**

**PROPOSAL FOR APPROVAL OF ESC:**

- (i) To note the following decisions adopted by Meeting of the Parties based upon Conference Room Paper submitted by India and like-minded Parties:
  - (a) Decision XXX/4 of the 30<sup>th</sup> MOP on the Executive Committee of the MLF to keep presenting the progress in the development of the guidelines to the Parties annually and also obtain comments and views of the parties before finalization of the guidelines.
  - (b) Decision XXXI/7 of the 30<sup>th</sup> MOP on continued provision of information on energy-efficient and low – global – warming - potential technologies.
  - (c) Decision XXXI/8 of the 31<sup>st</sup> MOP on Terms of reference of the Technology and Economic Assessment Panel and its technical options committees and temporary subsidiary bodies specifically on the procedures relevant to nominations.
- (ii) To note active participation of Indian delegation in the Montreal Protocol Bodies.



**AGENDA ITEM NO. 8: INDIA COOLING ACTION PLAN (ICAP)**

- The ICAP seeks to provide an integrated vision towards cooling across sectors encompassing inter-alia reducing cooling demand, refrigerant transition, enhancing energy efficiency and better technology options with a 20 year time horizon
- The ICAP launched on 8<sup>th</sup> March 2019
- India is one of the first countries in the world to develop a comprehensive cooling action plan to address cooling requirements across sectors
- Short, medium and long term recommendations
- Thematic working groups for implementation of the recommendations of the ICAP

**PROPOSAL FOR APPROVAL OF ESC:**

- (i) To note the release of the India Cooling Action Plan and that India is one of the first countries to develop a comprehensive Cooling Action Plan.
- (ii) Ex-post facto approval is requested for constitution of the Steering Committee and the Thematic Working Groups for the implementation of the recommendations of the ICAP.



**AGENDA ITEM NO. 9: UPSKILLING AIR-CONDITIONER SERVICE TECHNICIANS UNDER PRADHAN MANTRI KAUSHAL VIKAS YOJANA**

- A Memorandum of Agreement has been signed between MoEF&CC and Ministry of Skill Development and Entrepreneurship (MSDE) to upskill and certify 100000 RAC Service Technicians on good servicing practices and on alternative refrigerants to ODSs
- Project under Pradhan Mantri Kaushal Vikas Yojana
- Phase 1 of the project completed wherein 20000 technicians trained and certified. Third Party verification by IICA completed.
- Phase 2 for training of 40000 technicians in under implementation
- INR 33,00,00,000

**PROPOSAL FOR APPROVAL OF ESC:**

- Ex-post facto approval for the MoU signed between MoEF&CC and MSDE for skilling and certification of 100,000 RAC service technicians under Pradhan Mantri Kaushal Vikas Yojana.
- To note the progress made in skilling and certification of RAC service technicians



**ICAP - Broad Goals**

- Reduction of cooling demand across sectors by 20% to 25% by 2037-38
- Reduction of refrigerant demand by 25% to 30% by 2037-38
- Reduction of cooling energy requirements by 25% to 40% by 2037-38
- R&D and Innovation
- Training and certification of 100,000 servicing sector technicians by 2022-23, synergizing with Skill India Mission





**AGENDA ITEM NO. 10: SUBMISSION OF ARTICLE 7 OF THE MONTREAL PROTOCOL TO THE OZONE SECRETARIAT AND COUNTRY PROGRAMME PROGRESS REPORT (CPPR) TO THE MULTILATERAL FUND SECRETARIAT FOR THE YEAR 2017 AND 2018.**

- Under Article 7 of the Montreal Protocol and the requirement of the Ex-Com of the MLF, data on Production , export, import and feedstock use of ODSs is to be submitted to the Ozone Secretariat and the MLF Secretariat respectively.
- The data collected and compiled is reviewed by the Standing Committee on Monitoring , a standing committee of the ESC, Chaired by Chairman, CPCB

**PROPOSAL FOR APPROVAL OF ESC:**

Ex-Post facto approval for the following:

- (i) Article-7 data for the years 2017 (Enclosure-16, pages 377-387) and 2018 (Enclosure-17 , pages 388-403 )
- (ii) CPPR data for the years 2017 (Enclosure- 18, Pages 404-409) and 2018 (Enclosure-19 , pages 410-415 )



**AGENDA ITEM NO. 11: FISCAL INCENTIVE SCHEME**

- Fiscal Incentive Scheme operating under notification from the Department of Revenue, Ministry of Finance for providing fiscal incentives for conversion from ODS to non ODS technology.
- The cases for fiscal incentives are considered by the Technology and Finance Standing committee, a standing Committee of the ESC.

**PROPOSAL FOR APPROVAL OF ESC:**

Ex-post facto approval for the recommendation of TFSC in its meeting held on 16th February, 2018 and 16th November, 2018 wherein the following proposals were approved for duty exemption:

- a) M/s Krishna Maruti Ltd., Gujarat (2 cases)
- b) M/s Arctic Refrigeration Pvt. Ltd., Rajasthan



## **AGENDA ITEM NO. 12: WORLD OZONE DAY 2018 AND 2019.**

- World Ozone Day is celebrated each year on 16<sup>th</sup> September, the day on which the Montreal Protocol came into force.
- India has been celebrating World Ozone Day at National and State Levels since 1995
- The 24<sup>th</sup> World Ozone day was celebrated on 17<sup>th</sup> September 2018 at and the 25<sup>th</sup> World Ozone Day was celebrated on 16<sup>th</sup> September 2019 at New Delhi.

### **2018 – Publications**

- Draft India Cooling Action Plan (ICAP)
- A refurbished website on the Ozone Cell of the Ministry
- An integrated web-enabled MIS for ozone depleting substances(ODSs) phase out activities
- A Guide for Integration of Topics related to HCFC Phase Out and Energy Efficiency in Architectural Curriculum.



## **AGENDA ITEM NO. 12: WORLD OZONE DAY 2018 AND 2019. – CONTD.**

- A Technicians Handbook for Good Service Practices and Installation of Room Air-conditioners with HCFC-22 and Flammable Refrigerants.
- A Trainers Handbook for Good Service Practices and Installation of Room Air-conditioners with HCFC-22 and Flammable Refrigerants.
- "Montreal Protocol: India's Success Story" - Serial Publication
- newsTRAC – newsletter for service technicians in RAC sector (Serial publication)

### **2019**

- Proceedings of Stakeholder consultation on Strengthening of Refrigeration and Air-conditioning certification system for RAC servicing technician.
- Special issue of newsletter "newsTRAC" –for technicians in Refrigeration and Air-conditioning (RAC) Sector on Social Security, Access to Finance and Occupational Safety of Servicing Technicians
- A Quick Guide on Good Servicing Practices for flammable refrigerants.
- Booklet on Energy efficient and sustainable cooling

**The ESC To note the activities undertaken on the World Ozone Day 2018 and 2019.**



