

**MINUTES OF THE 45<sup>TH</sup> MEETING OF THE EMPOWERED STEERING COMMITTEE (ESC) FOR IMPLEMENTATION OF THE MONTREAL PROTOCOL HELD ON 4<sup>TH</sup> JULY 2022 IN KAVERI CONFERENCE HALL, PRITHVI BLOCK, MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, INDIRA PARYAVARAN BHAWAN, JORBAGH ROAD, NEW DELHI 110003**

The 45<sup>th</sup> meeting of the Empowered Steering Committee (ESC) for implementation of the Montreal Protocol was held on 4<sup>th</sup> July 2022 at 4.00 P.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 Chairpersonship of Ms. Leena Nandan, Secretary (EF&CC). The list of participants is attached at ***Annexure-I***.

Member Secretary, Shri Jigmet Takpa, Joint Secretary, MoEF&CC gave an overview of the Montreal Protocol and the role of Empowered Steering Committee (ESC), Chaired by Ex-Officio, Secretary, MoEF&CC and with representation of nodal line Ministries/departments associated in the Implementation of the Montreal Protocol. The ESC oversees the implementation of the Montreal Protocol in the Country. He then, with the permission of the Chairperson, requested Additional Director, Ozone Cell, MoEF&CC for initiating discussions on the agenda.

A presentation was made on each agenda item, including the proposal there upon, for consideration of the ESC. A copy of the presentation is enclosed at ***Annexure-II***.

The details of agenda items considered and the observations and decisions of the ESC are as follows:

**Agenda Item No. 1: Confirmation of Minutes of the 44<sup>th</sup> meeting of the Empowered Steering Committee (ESC) held on 27<sup>th</sup> December 2021**

Minutes of the 44<sup>th</sup> meeting of the ESC held on 27<sup>th</sup> December 2021 were confirmed.

**Agenda Item No. 2: Action taken report on the decisions of the 44<sup>th</sup> meeting of the Empowered Steering Committee (ESC)**

The ESC noted the action taken on decisions of the meeting of the 44<sup>th</sup> meeting of the ESC held on 27<sup>th</sup> December 2021.

On the issue relating to participating enterprises in the Ozone Depleting Substances phase out projects getting insolvent after taking advance payments, the ESC was informed that future Memorandum of Agreements (MOAs) to be signed with participating enterprise shall have a few initial payments and more at a later stage, near to the project

completion after achievement of milestones, deliverables and proper due diligence by an independent third-party. It was also proposed that before signing of MOA, there should also be proper due diligence with respect to the financial status of the enterprise. It was suggested that in such issues, the advice of AS&FA, MoEF&CC should be sought appropriately.

On the issue relating to display of sale of HCFC 141b by India Mart portal, a chemical which was imported for use in manufacturing of rigid PU foam and the use of which has been banned from 1.1.2020, the ESC was informed that the issue is yet to be resolved with the Department for Promotion of Industry and Internal Trade (DPIIT). The ESC was also informed that there is a discrepancy in the import data submitted by the Directorate of Commercial Intelligence and Statistics (DGCIS), Ministry of Commerce and Industry. DGCIS reported import of 100 MT of chemical with the ITC HS code of HCFC 141b during 2020 which is not in consonance with the provisions of ODS Rules. The details of same could not be obtained by Ozone Cell from DGCIS, Ministry of Commerce and Industry despite best efforts. It was decided that the Ministry will take up with DPIIT, Dept of Commerce, Department of Revenue, and CBIC to address the issues on priority.

### **Agenda item No. 3: Progress on activities after Ratification of Kigali Amendment to the Montreal Protocol for phase down of Hydrofluorocarbons (HFCs) by India**

The ESC was briefed that pursuant to the Kigali Amendment came into force for India on 26<sup>th</sup> December 2021, first stakeholder consultation meeting was held on 20<sup>th</sup> January 2022 which was well attended by 82 participants comprising representatives from nodal line ministries/departments/agencies, academic and research institutions and industry associations. Issues relating to establishment of licensing system, data reporting and development of national strategy for phase down of HFCs were discussed. Subsequently, the licensing system for import and export of HFCs has been established within the time frame of Montreal Protocol provisions and implemented by DGFT, Ministry of Commerce and Industry.

The ESC was also informed that the Executive Committee (Ex-Com) of the Multilateral Fund (MLF) approved the funding for the development of national strategy for HFC phase down in India, in cooperation with United Nations Environment Programme (UNEP), appointed as implementing agency and a Project Cooperation Agreement (PCA) was signed between the Project Management Unit (PMU), Ozone Cell, MoEF&CC and UNEP for initiating the work. A proposal has been obtained from National Institute of Public Finance and Policy (NIPFP) of the Ministry of Finance and the same is under examination, after which award of work will be done with the approval of the Competent Authority.

Representative from CEEW briefed the committee on its initiatives taken on HFCs including on the reports brought out. He emphasized on the need for incentivization of the industry to undertake the transition during HFC phase down and proposed for wider awareness including stakeholder consultations on alternatives to HFCs and policy formulation. It was proposed that a committee could oversee the development of the strategy for HFC phase down by NIPFP and CEEW may also provide its inputs appropriately.

It was informed by the Ozone Cell that the development of national strategy for HFC phase down comprises three elements – awareness generation, amendment to existing Ozone Depleting Substances (Regulation and Control) Rules to align with HFC phase down under the Kigali Amendment and strategy for phasing down HFCs considering national circumstances including availability of alternatives and each element would be finalized after stakeholder consultations. The ESC was also informed that an advisory committee with representatives of nodal line ministries/ departments/agencies would oversee the development of the national strategy for HFC phase down during the development and finalization of each element of the strategy.

**Agenda item No. 4 (i): Technology conversion in Foam and air-conditioning manufacturing Sectors – United Nations Development Program (UNDP) implementing agency and lead agency for HPMP Stage-II**

The ESC was briefed on the Hydrochlorofluorocarbon (HCFC) Phase out Management Plan (HPMP) Stage-II, its components, targets to be achieved, the implementing agencies associated and the progress of implementation on each component.

The investment component comprising technology conversion from HCFC to non ODS and low global warming potential technologies in both foam and air-conditioning manufacturing sectors was presented. UNDP is the implementing agency for the investment component. The ESC was informed that under the foam manufacturing sector 160 projects participated out of which 136 projects have completed the technology conversion activities and full allocated disbursements made. 22 of the remaining 24 enterprises have completely phased out HCFC 141b, which has been confirmed by the third party after physical site verification and funding allocated for balance 2 enterprise amounting to US\$ 62,175 to be returned to MLF as MOA could not be executed.

The ESC was also briefed about the proposed collaboration through a MOA with 8 IITs, to finance research scholars using the technical assistance component of the funding allocated for the foam manufacturing sector under HPMP Stage-II, for carrying out work on the development of low GWP alternatives to sustain phase out of HCFC 141b and to help Indian industry to transition to low GWP alternatives during the implementation of

the Kigali Amendment. It was said that a Committee with representation from nodal line Ministries/Departments shall oversee the activities including progress of the research work. It was felt that the proposed work should result in quantifiable outcomes and the areas of research to be undertaken by the IITs should be finalized by the said Committee, after seeking inputs from the concerned line ministries/departments including Department of Chemicals and Petrochemicals (DCPC). The Startup India initiative of the DPIIT, which aims to build a strong eco-system for nurturing innovation and Startups in the country that will drive sustainable economic growth and generate large scale employment opportunities may also be explored as part of the proposed initiative.

Regarding RAC manufacturing sector, it was informed that 3 out of 6 participating enterprises have completed all the conversion activities and full disbursements made and the 4th enterprise shall complete all the activities by December 2022. It was further informed that remaining 2 enterprises (M/s Videocon Limited and M/s LEEL Ltd) has gone into insolvency proceedings and accordingly project proposal for inclusion of 3rd AC manufacturing line of M/s Blue Star Limited, in lieu of M/s Videocon Limited was developed and submitted to UNDP for review. The eligibility of the 3<sup>rd</sup> AC Manufacturing line of M/s Blue Star Limited has been confirmed by third party. After technical review and clearance by UNDP, the project proposal will be submitted to the MLF Secretariat for consideration with the approval of Competent Authority. The balance amount, after approval of the allocation to M/s Blue Star Ltd. for the additional 3rd line shall be returned to the MLF Secretariat during the 91<sup>st</sup> meeting scheduled to be held in November 2022.

**Agenda Item No. 4 (ii): Review of Progress of Implementation of HCFC Phase out Management Plan (HPMP) Stage-II for the enabling activities, for which UN Environment Program (UNEP) is the implementing agency**

The ESC noted the Progress of Implementation of HCFC Phase out Management Plan (HPMP) Stage-II for the enabling activities, for which UNEP is the implementing agency.

On the query raised by one of the member regarding the impact or the outcome of studies being undertaken the enabling component, it was informed that these studies report comes out with specific recommendations based on the study been undertaken and the inputs received from related line Ministries/ departments, industry etc. The recommendations as part of the study reports are then shared with the associated line Ministries/ Departments/ agencies for adoption of non-ODS, low GWP and energy efficient alternative technologies and also to implement the recommendations emerging from these study reports, wherever feasible. It has also been advised by the Ministry to the concerned Ministries that the report may also be disseminated amongst the organizations/ agencies under their administrative control for wider adoption and implementation.

Noting the Progress of implementation of enabling activities under HPMP Stage-II, the ESC suggested that the recommendations or the outputs from the study reports may become part of the Quality Control Order (QCO) issued by the various concerned Ministries in order to mobilize the recommendations from the study reports.

**Agenda Item No. 4 (iii): Refrigeration and Air-Conditioning (RAC) Servicing Sector for which Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) Proklima, Government of Germany is the Implementing agency**

The ESC noted the progress of implementation of activities in the RAC servicing sector under HPMP Stage-II, for which GIZ is the implementing agency.

**Agenda Item No. 5: Project preparation for Stage-III of the Hydrochlorofluorocarbons (HCFC) Phase out Management Plan (HPMP) Stage III, to be submitted to the Executive Committee (Ex-Com) of the Multilateral Fund (MLF)**

The ESC was apprised of the progress of the preparation of Stage-III of the HPMP, the last of the HPMPs to be implemented from 2023 to 2030. It was said that a Committee under the Chairmanship of Joint Secretary, MoEF&CC and comprising representatives of nodal line ministries/departments associated with Montreal Protocol is overseeing the preparation activities. It was also said that the due date for submission of HPMP Stage-III is 8 August 2022 and the project document for seeking funding from the Multilateral Fund (MLF) of the Montreal Protocol, which is currently under preparation, shall be finalized by mid-July, after which the same will be discussed in a national stakeholder consultation workshop. Subsequently the project document will be reviewed by the said Committee, after which the same will be submitted to the MLF through UNDP, the lead implementing agency once due approvals have been accorded.

Representative of CEEW proposed that need to address the issues relating to recovery, recycling and end-of-life use of HCFCs in the HPMP Stage-III and said that it would share the work done in this regard. It was informed that this issue was also addressed at the awareness workshops organized as part of HPMP Stage-III preparation and is being addressed in the HPMP Stage-III project document.

Chairperson proposed the implementation framework concerning recovery, recycling including those relating to circular economy should be finalized in consultation with HSM Division of the MoEF&CC.

## **Agenda Item No. 6: Status report on implementation of the recommendations of the India Cooling Action Plan (ICAP)**

The ESC noted that action points for implementation of the recommendations of the ICAP for the thematic areas for space cooling in buildings and cold chain have been finalized and circulated to the concerned ministries/departments/agencies for implementation. The ESC was also informed that follow up is regularly done on the progress of implementation. It was proposed to make specific recommendations to Ministry of Education w.r.t. sector specific to appropriately incorporate in the curricula of the concerned institutions.

## **Agenda Item No. 7: Reporting items**

- i. Issuance of quota order for Hydrochlorofluorocarbons (HCFC)-22 Production for non-feedstock applications for the years 2022 in line with the Montreal Protocol phase out schedule and as per the provisions of Ozone Depleting Substances (Regulation and Control) Rules 2000, as amended in 2014.**

The ESC was informed that the Production Quota is issued to the producers of HCFC-22 in the country based upon the average of the non-feedstock HCFC22 production reported under the Montreal Protocol, for the years 2009-2010 (which constitutes the baseline, from which phase out is to be done and reduction target is to be achieved by the producers of HCFC-22 in line with the phase out schedule of the Montreal Protocol). The HCFC-22 production for non-feedstock uses is apportioned on pro-rata basis among the HCFC-22 producers. Quota for HCFC-22 production was issued to the HCFC-22 producers for the years 2022 with the recommendations of the concerned Committee and approval of Competent Authority.

- ii. Customs and excise duty exemption granted under the Fiscal Incentive Scheme**

The ESC was briefed about the fiscal incentive scheme comprising concessions in customs duty for adoption of substitutes for Ozone Depleting Substances (ODSs), thus making the import of technology and machinery eligible for concessional customs and excise duty, which was approved by the Union Cabinet in 1994. The ESC also informed that Technology and Finance Standing Committee (TFSC), a standing Committee of the ESC, in its meeting held on 9<sup>th</sup> May 2022 recommended for grant of customs duty exemption to M/s Industrial Foams Private Limited Greater Noida (UP) Duty exemption certificates was issued to the above applicant with the approval of Competent Authority.

**Agenda Item No.8: Project on Upskilling of air-conditioner service technicians, implemented through a Memorandum of Agreement (MoA) between the Ministry of Environment, Forest & Climate Change (MoEF&CC) and the Ministry of Skill Development and Entrepreneurship (MSDE), under the Pradhan Mantri Kaushal Vikas Yojana (PMKVY)**

The ESC was briefed about the project relating to upskilling and certification of 100,000 Refrigeration and Air-Conditioning (RAC) service technicians on good servicing practices and knowledge of alternative refrigerants to ozone-depleting chemicals, being implemented through a Memorandum of Agreement (MoA) between the MoEF&CC and the Ministry of Skill Development and Entrepreneurship (MSDE) under the under the Pradhan Mantri Kaushal Vikas Yojana (PMKVY). It was said that after upskilling and certification of 38,886 RAC technicians the scheme was closed on 31<sup>st</sup> March 2020 and hence all allocations under the scheme were suspended. Considering the importance of completing the project, which is also one of the goals in the India Cooling Action Plan, follow up was done with MSDE including a personal meeting between the Joint Secretary, MoEF&CC and Additional Secretary, MSDE. It was decided that the matter be taken up with MSDE for training and certification of remaining RAC service technicians and a communication in this regard may be sent MSDE.

The meeting ended with thanks to the Chair.

\*\*\*\*\*

**LIST OF PARTICIPANTS**

1.	Ms. Leena Nandan Secretary Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan JorBagh Road New Delhi-110003
2.	Ms. Arti Ahuja Secretary (Chemicals & Petrochemicals) Department of Chemicals & Petro-Chemicals Ministry of Chemicals And Fertilizers A-wing, 2nd floor, Shastri Bhawan New Delhi-110001
3.	Shri Tanmay Kumar Chairman, Central Pollution Control Board (CPCB) 2nd Floor, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032
4.	Shri Pravir Pandey Additional Secretary & Financial Advisor, MoEF&CC Representing DOE, MoF Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan Jor Bagh Road New Delhi 110003
5.	Shri Jigmet Takpa Joint Secretary Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan Jor Bagh Road New Delhi 110003
6.	Shri K. K. Srivastava Director Department of Chemicals & Petrochemicals Ministry of Chemicals & Fertilizers, Department of Chem. & Petro-Chemicals, A-Wing, Shastri Bhawan New Delhi – 110001 Email: <a href="mailto:kanishk.kant@nic.in">kanishk.kant@nic.in</a>



7.	Shri Sushil K Satpute, Director Department for Promotion of Industry and Internal Trade Ministry of Commerce & Industry Udyog Bhawan, New Delhi – 110011 Email: <a href="mailto:sushil.satpute@nic.in">sushil.satpute@nic.in</a>
8.	Shri Alok Dwivedi, Joint DGFT Department of Commerce Ministry of Commerce & Industry Udyog Bhawan New Delhi – 110011 Email: <a href="mailto:alok.dwivedi21@nic.in">alok.dwivedi21@nic.in</a>
9.	Dr. Mahendra P. Darokar Chief Scientist Council of Scientific Industrial Research (CSIR) Anusandhan Bhawan, 2, Rafi Marg, New Delhi – 110001 Email: <a href="mailto:mp.darokar@cimap.res.in">mp.darokar@cimap.res.in</a>
10.	Dr. G. V. Raghu Nath Reddy Scientist F Ministry of Science & Technology, Department of Science & Technology, Administration Block, Room No. 3, Technology Bhawan, New Mehrauli Road, New Delhi – 110016 Email: <a href="mailto:raghunath.reddy@nic.in">raghunath.reddy@nic.in</a>
11.	Dr. S. K. Singh Controller of Explosives, Petroleum & Explosives Safety Organization (PESO) Department for Promotion of Industry and Internal Trade Block B, Old CGO Complex NH IV Faridabad-(Haryana) -121001 Email : <a href="mailto:sk.singh@explosives.gov.in">sk.singh@explosives.gov.in</a>
12.	Shri R. N. Meena, Joint Chief Controller of Explosives, Petroleum & Explosives Safety Organization (PESO) Department for Promotion of Industry and Internal Trade Block B, Old CGO Complex NH IV Faridabad-(Haryana) -121001 Email: <a href="mailto:rnmeena@explosives.gov.in">rnmeena@explosives.gov.in</a>

13.	Shri Rakesh Pal Under Secretary Ministry of Petroleum & Natural Gas, Shastri Bhawan, New Delhi-110001 Email: <a href="mailto:usic.png@gov.in">usic.png@gov.in</a>
14.	Shri Santosh Kumar Assistant Director, O/o DCMSME, Ministry of Micro, Small and Medium Enterprises (MSME), A-Wing, 7th Floor, Nirman Bhavan, New Delhi – 110011 Email : <a href="mailto:santosh.kumar@dcmsme.gov.in">santosh.kumar@dcmsme.gov.in</a>
15.	Shri O P Sharma Consultant Department of Chemical & Petrochemicals Ministry of Chemicals & Fertilizers, Department of Chem. & Petro-Chemicals, A-Wing, Shastri Bhawan New Delhi – 110001 Email: <a href="mailto:omsharma@nic.in">omsharma@nic.in</a>
16.	Dr Arunabha Ghosh Chief Executive Officer Council on Energy, Environment and Water (CEEW) ISID Campus 4, Vasant Kunj Institutional Area, New Delhi, Delhi 110070 Mobile: 95608 76555, +91 11 40733300 Email: <a href="mailto:arunabha.ghosh@ceew.in">arunabha.ghosh@ceew.in</a>
17.	Ms. Shikha Bhasin Council on Energy, Environment and Water (CEEW) ISID Campus 4, Vasant Kunj Institutional Area, New Delhi, Delhi 110070 Email : <a href="mailto:shikha.bhasin@ceew.in">shikha.bhasin@ceew.in</a>
18.	Shri Shikhar Jain, Deputy Head, CII-ITC Centre of Excellence for Sustainable Development New Delhi Email: <a href="mailto:shikhar.jain@cii.in">shikhar.jain@cii.in</a>
19.	Dr. Sanjeev Jain Ex-Professor of IIT Delhi T-10, Greenpark E-mail: <a href="mailto:sanjain65@hotmail.com">sanjain65@hotmail.com</a>

20.	Dr. Mahendra Phulwaria Scientist 'C' Ministry of Environment, Forest and Climate Change New Delhi - 110003 Ph. : +91 11 2464 2176 Fax : +91 11 2464 2175 Email: <a href="mailto:m.phulwaria@gov.in">m.phulwaria@gov.in</a>
21.	Shri Aditya Narayan Singh Scientist 'E'/ Additional Director (Ozone Cell) Ministry of Environment, Forest and Climate Change 1 <sup>st</sup> Floor, 9, Institutional Area, Lodhi Road, New Delhi – 110 003 Ph: 24642176 ; Fax: 24642175 Email: <a href="mailto:aditya.narayan@nic.in">aditya.narayan@nic.in</a>
22.	Ozone Cell
	Shri S.V. Subba Rao National Programme Manager, Ozone Cell Ministry of Environment, Forest and Climate Change
	Ms Chanchal Sharma Technical Officer, Ozone Cell Ministry of Environment, Forest and Climate Change
	Shri Fahad Naim National Consultant, Ozone Cell Ministry of Environment, Forest and Climate Change
	Shri Sharad Chouriha MIS Coordinator, Ozone Cell Ministry of Environment, Forest and Climate Change



Annexure-II

# 45<sup>TH</sup> MEETING OF THE EMPOWERED STEERING COMMITTEE FOR IMPLEMENTATION OF THE MONTREAL PROTOCOL

4<sup>th</sup> July 2022

**OZONE CELL**

**MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE  
GOVERNMENT OF INDIA**



## AGENDA ITEM NO 1

**Confirmation of Minutes of the 44<sup>th</sup> meeting of the Empowered Steering Committee (ESC) held on 27<sup>th</sup> December 2021.**

No comments received on Minutes of 44<sup>th</sup> meeting of the ESC.

### **Proposal for consideration of the ESC**

To confirm the Minutes of the 44<sup>th</sup> meeting of the ESC



## AGENDA ITEM NO 2

### Action taken report on the decisions of the 44<sup>th</sup> meeting of the ESC

Agenda Item No.	Subject Matter	Decision of the 43 <sup>rd</sup> ESC	Action taken
3	Kigali Amendment to the Montreal Protocol	National Strategy for phase down of HFCs to be developed should include inputs from the CC division , MoEF&CC	Representative of Climate Change Division participated in the 1 <sup>st</sup> Stakeholder Consultation. Inputs will be sought while finalizing the national strategy.
4 (i)	Technology conversion in foam and RAC manufacturing sectors	MOAs to be signed with participating enterprises for technology conversion activities should including provisions for safeguarding funding allocated, including for advance payments.	Noted for compliance. MOAs shall be drafted to have fewer initial payments and more at later stages based on progress by the enterprises, keeping in view the provisions of the agreement with the Multilateral Fund



## AGENDA ITEM NO 2

### Action taken report on the decisions of the 44<sup>th</sup> meeting of the ESC

Agenda Item No.	Subject Matter	Decision of the 43 <sup>rd</sup> ESC	Action taken
5	Provisions of ODS Rules, 2014 relating to use of HCFC-141b in manufacturing of rigid polyurethane foam.	<ul style="list-style-type: none"> <li>• Display of selling /trading of HCFC 141b on India Mart,</li> <li>• Reconciliation of Import and export Data relating to Ozone Depleting Substances between the DGCI&amp;S and DGFT.</li> </ul> <p>Above issues to be taken up appropriately with the Department of Commerce and Ministry of Finance</p>	<p>The representative from the Department of Commerce who attended the 44th meeting of the ESC was approached and was apprised of the issues and requested to take appropriate action who assured to extend the required facilitation.</p> <p>Response is awaited.</p>
14 Other item discussed	Delegation to Chairperson ESC (ex-officio Secretary, MoEF&CC) for implementation of the Montreal Protocol	To authorize Chairperson, ESC (Ex-officio Secretary, MoEF&CC) to accord approval for all the proposals relating to implementation of Montreal Protocol and to take note of the same during the next ESC meeting.	The proposals for which approval of Secretary, MoEF&CC and Chairperson ESC have been sought pursuant to the 44th meeting of the ESC held on 27 December 2021, are included in Agenda item 7 for information and to take note by the ESC.

**Proposal for consideration of the ESC:** To note the action taken in the matter.



## AGENDA ITEM NO 3

### Progress on activities after Ratification of Kigali Amendment to the Montreal Protocol for phase down of Hydrofluorocarbons (HFCs) by India:

#### First Stakeholder Consultation meeting

- First stakeholder consultation meeting was held on 20<sup>th</sup> January 2022.
- Attended by 82 participants comprising representatives from nodal line ministries/departments/agencies, academic and research institutions and industry associations.
- Issues relating to establishment of licensing system, data reporting and development of national strategy for phase down of HFCs were discussed.

#### Establishment of Licensing System

- Licensing system for HFCs put in place within the time frame of Montreal Protocol provisions and implemented by DGFT, Ministry of Commerce and Industry.

#### Secured funding for development of National Strategy for HFC phase down

- The Executive Committee of the Multilateral Fund (MLF) during 87 meeting held in June 2021 approved funding of US\$250000, with UNEP as the implementing agency.
- Project Cooperation Agreement (PCA) signed between the Project Management Unit (PMU), Ozone Cell, MoEF&CC and UNEP
- Advisory Committee under the Chairmanship of Additional Secretary/Joint Secretary, MoEF&CC with representatives from Government Ministries/Departments, academic and research institutions to be constituted to oversee the development of national strategy for HFC phase down
- National Institute of Public Finance and Policy (NIPFP), Ministry of Finance, Government of India to be associated in the development of the Strategy. Proposal obtained is being examined.





## AGENDA ITEM NO 3 (Contd...)

### Proposals for consideration of the ESC

- i. To note Progress on activities undertaken pursuant to Ratification of the Kigali Amendment to the Montreal Protocol by India
- ii. To note the PCA signed with the UNEP, the implementing agency for the enabling activities under the Kigali Amendment, for development of national strategy for HFC phase-down including the associated activities.
- iii. To onboard NIPFP an autonomous institution under the aegis of the Ministry of Finance, Government of India, for development of National Strategy for HFC phase down in India. After examination of the proposal, the award of work to be done to NIPFP with the approval of Secretary, MoEF&CC and Chairperson ESC.
- iv. To constitute an Advisory Committee for overseeing the preparation of National Strategy for phase down of HFCs with the approval of Secretary (EF&CC) and Chairperson ESC.



## AGENDA ITEM NO 4(i)

### Implementation of HPMP) Stage-II

**Technology conversion in foam and air-conditioning manufacturing Sectors – UNDP implementing agency and lead agency for HPMP Stage-II.**

**Foam Manufacturing Sector (Funding -19.94 million US \$; Period : 2017-22)**

- 160 projects in the foam manufacturing sector included in HPMP stage-II out of which 136 projects have completed the technology conversion activities and full allocated disbursements made
- 22 of the remaining 24 enterprises have completely phased out HCFC 141b, which has been confirmed by third party after physical site verification.
- Funding allocated for balance 2 enterprise amounting to US\$ 62,175 to be returned to MLF at the 91<sup>st</sup> meeting scheduled in November 2022, as MOA could not be executed.
- Collaboration with 8 IITs, through a MOA, for to finance research scholars using the balance funding of the technical assistance component, for carrying out work on the development of low GWP alternatives to:
  - Sustain phase out of HCFC 141b
  - Help Indian industry to transition to low GWP alternatives during the implementation of the Kigali Amendment
- A committee under the Chairmanship of Additional Secretary/Joint Secretary, MoEF&CC and comprising representatives from concerned Ministries/ Departments to oversee the implementation of activities being undertaken by the 8 IITs



## AGENDA ITEM NO 4(i)

### **Room AC (RAC) manufacturing Sector (Funding -12.51 million US \$; Period : 2017-22)**

- 3 out of 6 participating enterprises have completed all the conversion activities and full disbursements made. 4<sup>th</sup> enterprise shall complete all activities by December 2022.
- Remaining 2 enterprises (M/s Videocon Limited and M/s LEEL Ltd) has gone into insolvency proceedings.
- Project proposal for inclusion of 3<sup>rd</sup> AC manufacturing line of M/s Blue Star Limited, in lieu of M/s Videocon Limited developed and submitted to UNDP for review, after which the same will be submitted to the MLF Secretariat for consideration. The eligibility of the 3<sup>rd</sup> AC Manufacturing line of M/s Blue Star Limited has been confirmed by third party.
- The balance amount, after approval of the allocation to M/s Blue Star Ltd. for the additional 3<sup>rd</sup> line shall be returned to the MLF Secretariat during the 91<sup>st</sup> meeting scheduled to be held in November 2022.



## AGENDA ITEM NO 4(i)

### Proposals for consideration of the ESC.

- i. To note the progress of implementation of the technology conversion activities in the foam manufacturing sector and RAC manufacturing sector under HPMP Stage-II.
- ii. To note the return of US\$ 62,175 to the MLF Secretariat, which is the associated funding allocated for the two projects in the foam manufacturing sector, for which MOA could not be executed.
- iii. To note the return of the balance amount from the funding allocated for the RAC sector, after approval of the allocation to M/s Blue Star Ltd. for the additional 3rd line, to the MLF Secretariat.
- iv. To note that the submission of funding request for the 4th tranche of HPMP Stage-II for consideration of the Ex-Com of the MLF at its 91st meeting scheduled to be held in November 2022 will be done with the approval of Secretary (EF&CC) and Chairperson, ESC.



## AGENDA ITEM NO 4(i)

### Proposals for consideration of the ESC.

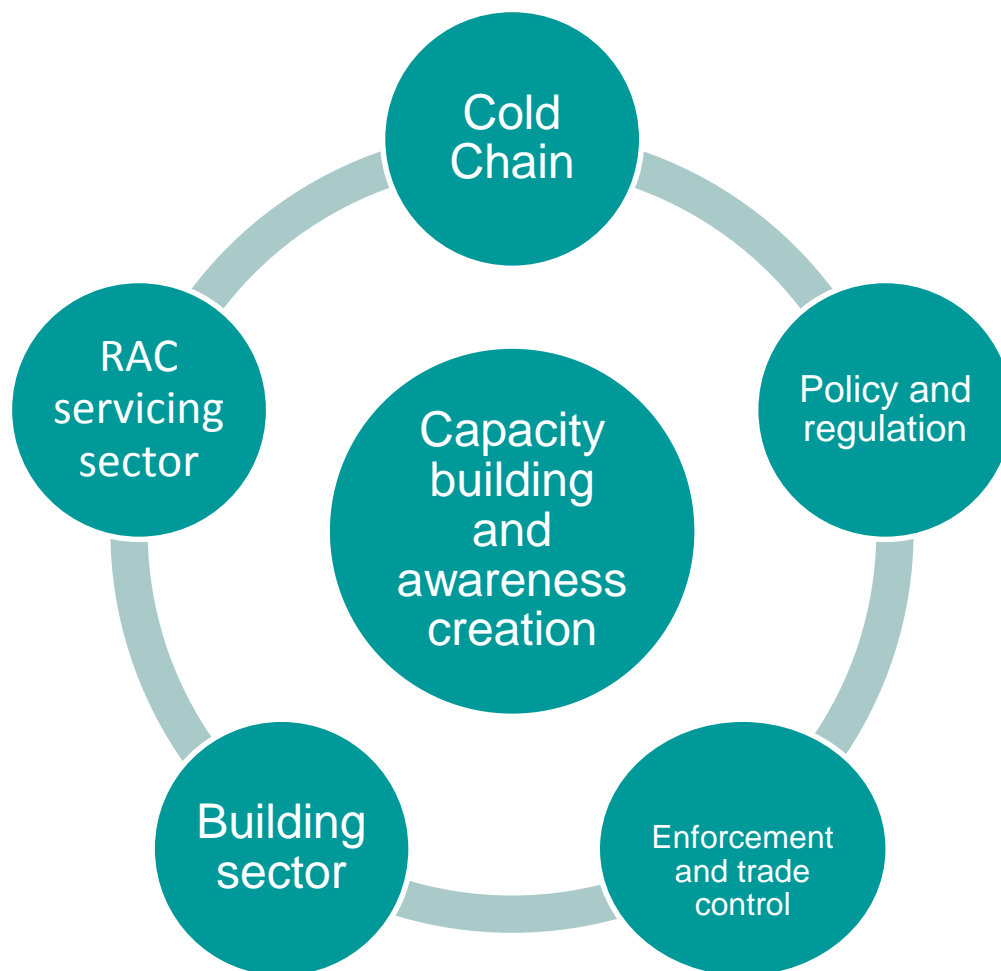
- v. To note the proposed collaboration with the 8 IITs including the following:
  - a) To carry out research on low global warming potential alternative chemicals to substances controlled under the Montreal Protocol, considering requirements and applicability for Indian industry associated with Montreal Protocol implementation,
  - b) MOA to be signed with the 8 IITs
  - c) LoA to be signed between UNDP and PMU, Ozone Cell, MoEF&CC
  - d) Committee constituted to oversee the implementation of the activities carried out by 8 IITs.
- vi. To note that the project proposal of inclusion of 3rd AC manufacturing line of M/s Blue Star Limited will be submitted to the MLF Secretariat with the approval of Secretary (EF&CC) and Chairperson ESC.
- vii. To note that after the approval of the proposal of inclusion of 3rd AC manufacturing line of M/s Blue Star in HPMP Stage-II, the funding allocation, including signing of MOA will be with the approval of Secretary (EF&CC) and Chairperson ESC.



## AGENDA ITEM NO 4(ii)

### Implementation of HCFC Phase out Management Plan (HPMP) Stage-II

Enabling activities – UNEP is the implementing agency. (Funding -0.9 million US \$; Period : 2017-23)



# Progress on Implementation of HPMP Stage-II – Enabling component

Activity	Implementing partner	Status
Capacity building of RAC Service sector for improving energy efficiency ✓ 10 workshops for RAC dealers ✓ Published booklet on Good Servicing Practices for room air conditioners ✓ Awareness Materials i.e. Posters, Flyers and stickers	Energy Efficiency Services Limited (EESL)	Completed
Study on application of non-ODS and low GWP alternatives in Cold Chain sector	Pricewaterhouse Coopers Ltd. (PWC)	Completed
Study on Public Procurement Policies for RAC equipment using non-ODS based refrigerants	The Energy and Resources Institute (TERI)	Completed
Study on application of non-ODS and low GWP alternatives in Building sector	Alliance for Energy Efficient Economy (AEEE)	Completed
Simulation study for development of national standards by Bureau of Indian Standard (BIS) for low-GWP Refrigerants.	Indian Institute of Technology (IIT), Delhi	Completed
Enforcement and capacity building for Customs and enforcement officers. ✓ 1 Training of trainers (ToT) workshops for custom officers ✓ 5 Supervisory officers workshops	National Academy of Customs Indirect Taxes and Narcotics (NACIN)	Completed
Survey report on RAC Service technicians in the state of Gujarat	NTPC School of Business	To be finalized by August, 2022
Study on Good Management Practices for energy efficient buildings by introducing Passive Cooling designs	M/s Construction Industry Development Council (CIDC)	To be completed by October, 2022
Enforcement and capacity building for Customs and enforcement officers	NACIN	Ongoing activity till 2023
Study on Good Management Practices for Cold Storage (warehouse) infrastructure used in e-commerce business highlighting application of non-HCFC and low GWP alternatives	M/s PWC	To be completed by October, 2022
Study on Public Procurement policies for hiring trained and certified RAC service technicians	M/s TERI	To be completed by December, 2022
Quarterly e-newsletter for RAC service technicians on the importance of good servicing practices including handling of different types of refrigerants, related safety issues and updates on refrigerant transition under the Montreal Protocol	M/s TERI	Ongoing activity till 2023

## Proposal for consideration of the ESC

To note the progress of implementation of activities in the enabling component under HPMP Stage-II



## AGENDA ITEM NO 4(iii)

**Implementation of HCFC Phase out Management Plan (HPMP) Stage-II Refrigeration and Airconditioning (RAC) Servicing Sector – GIZ Proklima, Government of Germany is the implementing agency. (Funding -5.1 million US \$; Period : 2017-22)**

Activities of HPMP Stage-II Project	Progress of Activities
<p><b>Capacity Building / RAC Technicians Training</b></p> <ul style="list-style-type: none"> <li>✓ Training of 17000 RAC service technicians by December 2022</li> <li>✓ Training of Trainers (TOT) Programs</li> <li>✓ Development of knowledge products, printing and distribution</li> </ul>	<p>Training of 12652 RAC service technicians completed. Training of balance 4348 RAC service technicians to be completed by December 2022, the due date of completion of the project.</p> <p>60 Trainers trained through Training of Trainers (TOT) Programmes, with at least 3 trainers for each of the 15 training partners across the country.</p> <ul style="list-style-type: none"> <li>✓ Training material including handbook for RAC service technicians in English and Hindi developed and disseminated.</li> <li>✓ Trainers and technicians handbooks on good service practices and installation of room air-conditioners with HCFC 22 and flammable refrigerants developed and disseminated .</li> </ul>





## Activities of HPMP Stage-II Project

## Progress of Activities

Design and development of a certification system for RAC service technicians

Developed a concept note for the national implementation of a certification system and discussed in Stakeholder Consultation workshop. Proceedings of the workshop prepared and widely disseminated.

### Institutional Strengthening Programs

✓ Industrial Training Institutes (ITIs) Instructors Training of Trainers (TOT)

TOT for ITI Instructors, 1 training program has been completed and the remaining 2 Training programs will be completed by December 2022.

✓ Revision of ITI Syllabus

Syllabus for RAC service trade has been updated to include alternative refrigerants including flammable refrigerants and good service practices.

✓ Conducting training for technicians of Institutions on good servicing practices:

Discussions initiated with institutions like Central Public Works Department (CPWD) and Delhi Metro for conducting training on good servicing practices. Modalities including structure of training are being worked out.

Delhi Metro

Central Public Works Department (CPWD)

### Proposal for consideration of the ESC

- To note the progress of implementation of activities in the RAC servicing sector under HPMP Stage-II.



## AGENDA ITEM NO 5

**Project preparation for Stage-III of the Hydrochlorofluorocarbons (HCFC) Phase out Management Plan (HPMP) Stage-III to be submitted to the Executive Committee (Ex-Com) of the Multilateral Fund (MLF).**

- The HPMP Stage-III shall phase out of remaining HCFCs of 539.78 ODP tonne from the starting point of 1691.25 ODP tons, in the Refrigeration manufacturing, Air-conditioning manufacturing, Firefighting equipment manufacturing and RAC Servicing Sector.
- A committee under the Chairmanship of Joint Secretary, MoEF&CC and members from line Ministries/ departments constituted to oversee the preparation of HPMP Stage-III. Two meetings of the Committee have been held on 8th October 2021 and 18th January 2022 during which the progress was reviewed.
- As part of the preparation of HPMP Stage-III six awareness workshops in different cities have been organized, in which, besides the potential enterprises, the implementing agencies, namely UNDP, UNEP and GIZ, representatives from the concerned line ministries/departments, CPCB and SPCBs and members of the overseeing committee also participated.
- The draft HPMP will be ready by mid-July 2022 after which the same will be discussed in a stakeholder consultative workshop.
- The due date for submission of HPMP Stage-III for consideration by the Ex-Com at its 91 meeting to be held in December 2022 is 8 August 2022.



## AGENDA ITEM NO 5 (Contd...)

### Proposals for consideration of the ESC

- I. To note the progress on preparation of HPMP Stage-III
- II. To note the constitution of the committee for overseeing the preparation and finalization of HPMP Stage-III with the approval of Secretary (EF&CC) and Chairperson ESC.
- III. To note the submission of HPMP Stage-III to the Secretariat of the MLF for consideration by the Ex-Com of the MLF at its 91st meeting, scheduled to be held in December 2022, with the approval of Secretary (EF&CC) and Chairperson ESC.



## AGENDA ITEM NO 6

### Status report on implementation of the recommendations of the India Cooling Action Plan (ICAP)

- MoEF&CC has developed and launched the ICAP during March 2019, 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.
- Towards operationalizing the recommendations, six thematic working groups have been constituted, for developing an action plan for implementing the recommendations:
  - Space Cooling in Buildings,
  - Cold Chain,
  - Domestic manufacturing and Production Sector – Alternative Refrigerants and technologies,
  - RAC Servicing Sector,
  - Transport Air conditioning (car, bus, train and Metro Air conditioning) and
  - Research and Development.



## AGENDA ITEM NO 6

### **Status report on implementation of the recommendations of the India Cooling Action Plan (ICAP)**

- Action points relating to implementation of the recommendations finalized and adopted for implementation for the following thematic areas
  - Space Cooling in Buildings
  - Cold Chain
- Communication from Secretary, MoEF&CC was sent to all the concerned line Ministries/Departments associated with implementation of the action points requesting to implement the proposed actions in both Space Cooling and Cold Chain thematic areas
- Action Plan for the remaining 4 thematic areas has been initiated and will be finalized by October 2022.

### **Proposal for consideration of the ESC**

To note the progress on implementation of the recommendations of the ICAP in various thematic areas



## AGENDA ITEM NO 7 (i)

### **Reporting Items: Issuance of quota order for Hydrochlorofluorocarbon (HCFC)-22 Production for non-feedstock applications for the year 2022**

- In accordance with sub rule 4 of Rule 3 of the Ozone Depleting Substances (Regulation and Control) Rules, 2000, and its amendments, Quota for production of controlled substances is being issued by the MoEF&CC, to adhere to the phase out schedule by the Country, as Party to the Montreal Protocol.
- The HCFC-22 production for non-feedstock uses is apportioned on pro-rata basis among the HCFC-22 producers, considering the phase out target as per the Montreal Protocol reduction schedule, which constitutes the quota, the limit for which each producer can produce during a year.
- Quota for HCFC-22 production was issued to the HCFC-22 producers for year 2022 with the approval of Secretary, MoEF&CC and Chairperson, ESC.

### **Proposal for consideration of the ESC**

To note the issuance of quota order for HCFC-22 Production for non-feedstock applications for the year 2022 with the approval of Secretary, MoEF&CC and Chairperson, ESC.



## AGENDA ITEM NO 7 (ii)

### **Reporting items: Customs and excise duty exemption granted under the Fiscal Incentive Scheme.**

- The Union Cabinet in its meeting held on 27 January 1994 approved the fiscal concessions in customs duty for adoption of substitutes for Ozone Depleting Substances (ODSs).
- The Technology and Finance Standing Committee (TFSC), one of the Standing Committees of ESC, is responsible for considering of project proposals for availing the fiscal incentive scheme and upon appraisal, recommend to the ESC for approval for grant of exemptions for customs duty, under notification of the Department of Revenue, Ministry of Finance, Government of India. The latest amendment to the notification was in 2012.
- TFSC in its meeting held on 9<sup>th</sup> May 2022 recommended for grant of customs duty exemption for M/s Industrial Foams Private Limited Greater Noida (UP) for import of non ODS based technology for continuous foam panel manufacturing.
- Duty exemption certificate was issued after approval of the recommendation of TFSC by Secretary Ministry of Environment, Forest and Climate Change (MoEF&CC) and Chairperson, ESC.

### **Proposal for consideration of ESC:**

To note the customs duty exemption granted to M/s Industrial Foams Pvt Ltd, Noida, under the Fiscal Incentive Scheme.



## Other item

### **Continuation of project on up skilling and certification of 100,000 Refrigeration and Air-Conditioning (RAC) service technicians in collaboration with MSDE**

- Project initiated during 2018 to train and certify 1,00,000 RAC service technicians.
- Up skilling and certification of 38,886 RAC service technicians completed.
- Pradhan Mantri Kaushal Vikas Yojana (PMKVY) scheme phase II entered on 21<sup>st</sup> March 2020.
- Matter taken up with MSDE for training and certification of remaining RAC service technicians.
- Response waited.

### **Proposal for consideration of ESC:**

To note the progress of the project on up skilling and certification of 100,000 Refrigeration and Air-Conditioning (RAC) service technicians in collaboration with MSDE.





**THANK YOU**