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U N D P

CERTIFICATE OF COMPLETION

PROJECT: BRA/12/G76 DATE APPROVED: December 31st, 2019.
AGENCY: UNDP ENGINEER: Miguel Quintero

CONTRACTOR: PURCOM QUÍMICA LTDA.
LOCAL GOVERNMENT: OZONE PROTECTION UNIT OF THE BRAZILIAN
GOVERNMENT

Issued by: United Nations Development Programme (UNDP)

AGENCY (IA)

And to: PURCOM QUÍMICA LTDA.
Rua Aeroporto, 83/115 – Barueri – Brazil
Zip Code: 06.41-260

CONTRACTOR

This Certificate of Completion applies to all work conducted under the Project Document approved by UNEP/OzL.Pro/ExCom/64/53 – Decision 64/40:

BRA/12/G76 – Brazil`s HCFC Phase-out Management Plan.:

- Conversion to non-HCFC Technology in the Manufacture of Polyurethane Foam of the enterprise PURCOM QUÍMICA LTDA.;
 - Perform the technology transfer to HCFC-free technology to 72 pre-selected PU Foam end-users.
-

The work to which this Certificate applies has been inspected by the ENGINEER in presence of authorised representatives of IA and CONTRACTOR and the work is hereby declared to be completed in accordance with the aforementioned project document.

December 31st, 2019

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RESPONSIBILITIES

From the date of Completion the responsibilities between IA and CONTRACTOR for security, operation, safety, maintenance, utilities, insurance, warranties and guarantees shall be as follows:

IA: As of Tuesday, December 31st, 2019, all of the aforementioned responsibilities shall be passed from UNDP to PURCOM QUÍMICA LTDA. located in Barueri, Brazil.

CONTRACTOR: As of Tuesday, December 31st, 2019, all of the aforementioned responsibilities shall be assumed by PURCOM QUÍMICA LTDA. and the CONTRACTOR shall hold UNDP harmless.

The following is a list of complete activities carried out under the Conversion to non-HCFC Technology in the Manufacture of Polyurethane Foam of 72 pre-selected PU Foam end-users and the enterprise PURCOM QUÍMICA LTDA. from November 2013 to December 2019:

System house's conversion: The conversion process of system house encompassed the following activities:

- Investment/ engineering project implemented at the polyurethane system production:
 - Plant adjustments (electrical grounding, piping and civil works);
 - Adaptation of storage area for flammable products (Methyl Formate) and transfer system to mixing area;
 - Installation of nitrogen system linked to mixing units (system inertisation);
 - Installation of safety systems /sensors /alarms /fire extinguisher /exhaust system;
 - Retrofit of pre-mixer units used for production of FME/ISF foams systems (sealing of tanks caps and explosion proof pump);
 - Retrofit of pre-mixer units used for production of polyurethane rigid foams systems (sealing of tanks caps and explosion proof pump);
 - Issuance of safety certificate;
 - Staff training on safety measures and on handling and storage of flammable substances.
- 25.86 ODP t phased out.
- The declaration of disposal of baseline equipment is presented on Annex A.

End user's conversion: The conversion process of each beneficiary end-user listed in Annex B encompassed the following activities *via* the assistance of the system house:

- End-user baseline data validation in the field;
- Technology transfer;
- Trials at production and commercial levels;
- Assistance in civil works design and adaptation;
- Purchase or retrofit services with equipment specifications and guidance on execution;



- Issuance of certificate on enterprise ability to safely handle the new technology;
- Collection of implementation documentation and completion of activities.

Executed on behalf of UNDP by ENGINEER on Tuesday, December 31st, 2019:

Miguel Wenceslau Quintero

Miguel Quintero, Engineer

CONTRACTOR accepts this Certificate on 27-mai-2020:

By: *Giuseppe Santanchè*

Giuseppe Santanchè, Commercial Director

ANNEX-A

DECLARATION OF DISPOSAL OF BASELINE EQUIPMENT UNDER PROJECT BRA/12/G76 – (PURCOM)

Under Project BRA/12/G76, PURCOM QUÍMICA LTDA., the CONTRACTOR hereby declares that it has disposed the baseline equipment as identified in the approved Project Document for BRA/12/G76 – PURCOM as follows:

DISPOSAL OF BASELINE EQUIPMENT UNDER PROJECT BRA/12/G76 – (CONTRACTOR)						
Equipment Description	Year and Model	Equip-ment ID#	Method of Disposal	Year of disposal	Implement ed By	Verified By
Blending Tank	2003	n/a	3	2014	Contractor	IA
Blending Tank	2003	n/a	3	2014	Contractor	IA
Blending Tank	2003	n/a	3	2014	Contractor	IA

1. Physical Destruction/Dismantling/Rendering Unusable with HCFCs
2. Decommissioning and Storage
3. Retrofitting
4. No action

Under project BRA/12/G76 – PURCOM, the Contractor declares as below:

- (1) That it has carried out the disposal of the baseline equipment as tabulated above, so as to render the equipment unusable with HCFCs, applying the process described below:

Brief description of the disposal process:

- Retrofit of foaming related equipment.





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- (2) That it, in the event that any equipment is decommissioned and retained in storage by the Contractor, it will not use it with any HCFCs and it will not sell or surrender the custody of this equipment except to a designated authority so assigned by UNDP and/or the Government. Justification (as mandatorily required) for retaining this baseline equipment is provided by the Contractor below:

Justification for retaining the baseline equipment:

- N/A

- (3) That it will not resume the use of any HCFC or other Ozone Depleting Substance (ODS) in its manufacture of Polyurethane Foam as per Term of Commitment signed on August 22nd, 2014.

In agreement:

CONTRACTOR

Handwritten signature of Guiseppe Santanchè in black ink.

Guiseppe Santanchè,
Commercial Director

GOVERNMENT

Handwritten signature of Magna Luduvica in black ink.

Magna Luduvica
National Ozone Unit Officer

It is hereby verified that a review, undertaken with all due diligence, of the information made available to UNDP revealed no discrepancies in the aforementioned representations with which UNDP, therefore, agrees,

UNDP

Handwritten signature of Miguel Wenceslau Quintero in black ink.

Miguel Quintero, Engineer

ANNEX-B

END-USERS CONVERTED UNDER PURCOM'S GROUP PROJECT

Nº	End User	Location	Start-up Date	A-5 Capital	Baseline equipment information						
					Type (High/Low/Manual)	Brand	Model	Year	Equipment ID	Method of Disposal	
1	Injefox Indústria e Comércio de Equipamentos em Poliuretano Ltda.	São Paulo/SP	02/01/1994	Yes	HPD	Supol	P15	2002	n/d	3	Retrofit of equipment.
					LPD	Equifiber	P15	2000	n/d		
					LPD	Sintenor	P30	1995	n/d		
					LPD	Sintenor	P15	2002	n/d		
					HPD	Supol	P30	2002	n/d		
					LPD	Italiana Modificada	n/d	2000	n/d		
					LPD	Sintenor	n/d	2004	n/d		
					LPD	Sintenor	n/d	2007	n/d		
2	Rhodes S/A	Bragança Paulista/SP	22/03/2007	Yes	HPD	RMPA	n/d	2006	n/d	3	Retrofit of equipment.
					HPD	RMPA	n/d	2006	n/d		
					HPD	ASK	n/d	2004	n/d		
					HPD	ASK	n/d	2003	n/d		
					HPD	ASK	n/d	2002	n/d		
					HPD	ASK	n/d	1999	n/d		
3	P.P.U. Indústria e Comércio de Acessórios Ltda.	Ipuá/SP	06/07/1995	Yes	LPD	Transtécnica	7,5 kg/min	1997	n/d	3	Retrofit of equipment.
					LPD	Transtécnica	15 kg/min	1998	n/d		
					LPD	Supol	7,5 kg/min	2000	n/d		
4	D. De Vasconcelos - Epp	Irajá/RJ	22/08/2007	Yes	HPD	Supol	30 kg/min	n/d	n/d	3	Retrofit of equipment.



5	Fenap Poliuretano e Artefatos de Madeira Ltda.	Almirante Tamandaré/PR	08/12/1999	Yes	LPD	Cannon	15 kg/min	2001	B15.F12-101.669	3	Retrofit of equipment.
					LPD	Cannon	30 kg/min	2000	B30.R12-120.858		
					HPD	Cannon	40 kg/min	2000	A SYSTEM 40 STD-271.382		
6	Paranoá Industria de Artefatos (TKM INDUSTRIA DE BORRACHA E PLASTICOS LTDA)	Diadema/SP	22/05/1963	Yes	HPD	Krauss Maffei	30 kg/min	2005	n/d	3	Retrofit of equipment.
					HPD	Krauss Maffei	30 kg/min	2005	n/d		
					HPD	Krauss Maffei	30 kg/min	2004	n/d		
					HPD	Krauss Maffei	30 kg/min	2004	n/d		
7	M'S System Indústria E Comércio Ltda.	Ribeirão Preto/SP	05/02/1999	Yes	LPD	Transtécnica	7,5 kg/min	n/d	n/d	3	Retrofit of equipment.
					LPD	Transtécnica	15 kg/min	n/d	n/d		
					HPD	RMPA	n/d	n/d	n/d		
8	Tg Poli Parte Automotivas LTDA	Osasco/SP	17/11/1999	Yes	HPD	Cannon	ASYS40S TD	1999	271234	3	Retrofit of equipment.
9	Injepol Indústria de Injeção de Poliuretano Ltda.	Joinville/SC	22/04/2004	Yes	LPD	Transtécnica	15 kg/min	2003	20170502	3	Retrofit of equipment.
					LPD	Supol	15 kg/min	2002	305		
					LPD	Supol	30 kg/min	2003	395		
10	Metka Serviços de Recuperação de Artefatos de Material Plástico Ltda.	Curitiba/PR	16/06/2003	Yes	LPD	Transtécnica	T15	n/d	n/d	3	Retrofit of equipment.
					LPD	Transtécnica	T30/20F	2001	19770201		

11	Anjos do Brasil Indústria e Comércio de Móveis Ltda.	Foz do Iguaçu/PR	20/03/1998	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
12	Gnatus Equipamentos Médico Odontológicos S/A	Ribeirão Preto/SP	11/10/1976	Yes	LDP	Transtécnica	15	2006	n/d	3	Retrofit of equipment.
					LDP	OMS	30	1999	n/d		
					LDP	OMS	15	2000	n/d		
13	Tgk Automotyva Ltda.	Osasco/SP	25/10/2002	Yes	HPD	Cannon	ASYS40S TD	1990	271235	3	Retrofit of equipment.
14	Menaf Indústria de Manufatura	Guarulhos/SP	19/11/1981		LPD	Supol	15 kg/min	n/a	n/d	3	Retrofit of equipment.
15	Plásticos Zanotti Ltda.	Massaranduba/SC	18/11/1999	Yes	HPD	Cannon	AP10	2004	SB005	3	Retrofit of equipment.
16	Isorel Locação e Serviços Ltda.	Salvador/BA	22/06/1999	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
17	Springer Plásticos da Amazônia S/A	Manaus/AM	09/12/1975	Yes	HPD	Cannon	AP15	2002	1907047030	3	Retrofit of equipment.
					HPD	Krauss Maffei	RIM Star E II 40/40 S	2000	35000662		
18	Mp Componentes Indústria e Comércio de Conexões Ltda.	São Paulo/SP	03/04/1988	Yes	HPD	Supol	n/d	n/d	n/d	3	Retrofit of equipment.
18	Mebuki Indústria Comércio e Exportação Ltda.	Guarulhos/SP	28/08/1981	Yes	HPD	Fibermaq	15 kg/min	2003	n/d	3	Retrofit of equipment.
20	World Pack da Amazônia Ltda.	Manaus/AM	10/10/1996	Yes	HPD	Elastogran	n/d	n/d	n/d	3	Retrofit of equipment.
					LPD	Autofroth	3 kg/min	n/d	n/d		
					LPD	Autofroth	7 kg/min	n/d	n/d		
21	Auto Designer Ltda.	Osasco/SP	20/02/1998	Yes	LPD	Transtécnica	T-60	2006	n/d	3	Retrofit of equipment.
22	Móveis B P Ltda.	Visconde do Rio Branco/MG	07/05/2001	Yes	Manual	n/a	n/a	n/a	n/d	4	Dispenser purchase.
23	Pormade Portas de Madeiras Decorativas Ltda.	União da Vitória/PR	19/09/2005	Yes	HPD	Supol	AP 15	2007	280	3	Retrofit of equipment.

24	Nipponflex Indústria e Comércio de Colchões Ltda.	Maringá/PR	13/03/2000	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
25	Gart Materiais de Acabamento Ltda.	Jundiaí/SP	24/02/1995	Yes	HPD	Krauss Maffei	Puromat 30	2000	105278	3	Retrofit of equipment.
26	Poliuretano do Brasil Indústria e Comércio Ltda.	Cachoeirinha/R S	09/05/2006	Yes	LPD	Supol	P 15	2000	100	3	Retrofit of equipment.
					HPD	Supol	P 30	2006	494		
27	Decorpól Indústria e Comércio Ltda.	Curitiba/PR	23/03/2004	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
28	Moldepól Industria De Perfis Ltda.	Barueri/SP	30/10/1996	Yes	LPD	n/d	n/d	n/d	n/d	3	Retrofit of equipment.
29	Travema Armazenagem Segura Eireli	Morungaba/SP	19/02/1986	Yes	LPD	Supol	ST-C15A	2005	465	3	Retrofit of equipment.
30	Fit Work Comércio e Importação de Equipamentos Esportivos	São Paulo/SP	26/11/1998	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
31	Betterplas Comercial e Industrial Ltda.	Guarulhos/SP	07/11/2002	Yes	HPD	Fibermaq	15 kg/min	2005	n/d	3	Retrofit of equipment.
32	Mvc Componentes Plasticos S.A	São José dos Pinhais/PR	26/10/2001	Yes	LPD	Supol	ST-C30A	2005	n/d	3	Retrofit of equipment.
					LPD	Supol	ST-C30A	2005	n/d		
					LPD	Supol	n/a	n/a	n/d		
33	Metalúrgica Freimor Ind e Com Ltda.	Taboão da Serra/SP	31/07/1972	Yes	n/d	n/d	n/d	n/d	n/d	3	Retrofit of equipment.
34	I Molin Comércio de Móveis (Incomal Móveis Anatômicos)	Cuiabá/MT	25/05/2006	Yes	LPD	Sulpol	ST-C15.A	2000	185	3	Retrofit of equipment.
35	Lanco Ltda.	Boituva/SP	05/03/1995	Yes	HPD	Supol	ST-C 30 A	2004	428	3	Retrofit of equipment.
36	Procyon Indústria e Comércio de Embalagens Injetáveis Ltda.	Caieiras/SP	26/02/2007	Yes	LPD	Equifiber / Fibermaq	PUF7	1998	99/000113	3	Retrofit of equipment.
37	Zero Grau Ind. E Com Ltda	Nova Santa Rosa/PR	28/09/1995	Yes	LPD	Transtécnica	T15/2	2001	22610710	3	Retrofit of equipment.
					LPD	Transtécnica	T60/2	2004	21021104		

38	Maxxima Indústria e Comércio Ltda.	São Paulo/SP	28/08/2002	Yes	LPD	n/d	n/d	n/d	n/d	3	Retrofit of equipment.
39	Jt&C Modelação Ltda.	Barueri/SP	14/05/2001	Yes	LPD	Pronor	7,5 kg/min	1980	n/d	3	Retrofit of equipment.
					LPD	Transtécnica	n/d	1998	n/d		
					LPD	House	n/d	2000	n/d		
40	Amazon Motion Do Brasil Eireli	Manaus/AM	05/07/2002	Yes	Manual	n/d	n/d	n/a	n/d	4	Dispenser purchase.
41	Maxispuma Indústria de Espumas Ltda.	Céu Azul/PR	03/07/1994	Yes	LPD	Baslima	MB1800	2005	n/d	3	Retrofit of equipment.
42	Incofal Indústria e Comércio Ltda.	Xanxerê/SC	15/06/2000	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
43	Aupat Indústria e Comércio de Colchões Ltda.	Guarulhos/SP	10/10/1979	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
44	Mecalor Soluções em Engenharia Térmica Ltda.	São Paulo/SP	02/10/1971	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
45	Americanflex Indústrias Reunidas Ltda.	São José do Rio Preto/SP	10/10/1978	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
46	Indústria e Comércio Copas Ltda. (Paropas)	Uba/MG	15/07/2003	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
47	Colchões Apolo Spuma Ltda.	Itu/SP	04/08/1970	Yes	HPD	Wang Machine	n/d	n/d	n/d	3	Retrofit of equipment.
48	Colchomais Indústria e Comércio de Colchões Ltda.	Uba/MG	25/05/2005	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
49	Indústria de Espumas Guararapes Ltda.	Jaboatão dos Guararapes/PE	24/03/1975	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
50	Orbhes Espumas e Colchões Ltda.	Jaraguá do Sul/SC	10/10/2003	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
51	Pelmex da Amazônia Ltda.	Manaus/AM	02/05/1975	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
52	Techfoam Serviços em Colchões Ltda.	Suzano/SP	02/02/1988	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.



53	Indústria e Comércio de Colchões Vale do Aço Ltda.	Caratinga/MG	13/06/1986	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
54	Aumar Comércio de Espumas e Confeção de Colchões e Acessórios para Tapeçaria Ltda.	Santos/SP	03/09/2000	Yes	HPD	Supol	P30kg/min	n/d	n/d	3	Retrofit of equipment.
55	Delfa Indústria e Comércio de Acessórios do Vestuário Ltda.	Maracanau/CE	15/12/2003	Yes	HPD	n/d	n/d	n/d	n/d	3	Retrofit of equipment.
56	Ruah Indústria e Comércio de Móveis Ltda.	Marco/CE	06/09/2000	Yes	LPD	House	n/d	n/d	n/d	3	Retrofit of equipment.
57	Ruah Indústria e Comércio de Móveis Ltda.	Maringá/PR	06/09/2000	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
58	Master Comfort Indústria e Comércio de Espumas e Colchões LTDA. (Antiga Star Light Indústria e Comércio de Espumas Ltda.)	São Leopoldo/RS	05/05/1981	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
59	Abcol Oxilatina Comércio de Compositos Ltda.	São Caetano do Sul/SP	20/05/1998	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
60	Ag Brasil Compositos Ltda.	São Caetano do Sul/SP	19/03/2002	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
61	Aquagel Refrigeração Ltda.	Campinas/SP	28/02/1983	Yes	HPD	Autofroth	7,5 kg/min	1989	2398	3	Retrofit of equipment.
62	Randon S/A Implementos e Participações	Caxias do Sul/RS	09/11/1976	Yes	HPD	Afros-Cannon	A-Compact 100 FC	2007	291780	3	Retrofit of equipment.
63	Furgões Cascavel Ltda.	Cascavel/PR	18/12/1981	Yes	LPD	Gusmer	H2000A	2000	B02489	3	Retrofit of equipment.
64	Isopoly Comércio de Isolações Térmicas Ltda.	São Paulo/SP	28/04/2006	Yes	LPD	n/d	n/d	n/d	n/d	3	Retrofit of equipment.
65	Komlog Importacao Ltda	Palhoça/SC	22/11/2006	Yes	Manual	n/d	n/d	n/d	n/d	4	No action



66	Neotérmica Isolantes Térmicos e Revestimentos Metálicos Ltda.	São Paulo/SP	06/12/1979	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
67	Risoterm Isolantes Térmicos Ltda.	Lauro de Freitas/BA	14/07/1997	Yes	Manual	n/d	n/d	n/d	n/d	4	Dispenser purchase.
68	Riverplast Indústria e Comércio de Plásticos Ltda.	Rio Negro/PR	01/03/1994	Yes	LPD	Transtécnica	15	n/d	n/d	3	Retrofit of equipment.
69	Soletrol Indústria e Comércio Ltda.	São Manuel/SP	05/09/1981	Yes	HPD	Transtécnica	T15/2P	2001	22690810	3	Retrofit of equipment.
					HPD	Transtécnica	T15/2P	2003	23571013	3	Retrofit of equipment.
					HPD	Transtécnica	T15/2P	2003	23530813	3	Retrofit of equipment.
70	Thermototal - Indústria e Comércio Ltda.	Capivari/SP	21/09/1982	Yes	LPD	Gusmer	H2000A	1999	BO2397	3	Retrofit of equipment.
71	Poliumetka Indústria e Comércio de Poliuretano Ltda.	Curitiba/PR	15/05/1995	Yes	LPD	Sulpol	60	n/d	n/d	3	Retrofit of equipment.
					LPD	Sulpol	STC-15	n/d	n/d		
					LPD	Transtécnica	T200	2003	20661203		
					HPD	Elastogran	PU80IQ	2002	11007873		
					HPD	Puomat	32SP	2002	HS84778019		
72	Coalbro Comércio de Produtos de Espuma Ltda.	Campo Largo/PR	13/12/1985	Yes	LPD	Sulpol	ST-C15A	2001	218	3	Retrofit of equipment.

Method of Disposal

1. Physical Destruction/Dismantling/Rendering Unusable with HCFCs
2. Decommissioning and Storage
3. Retrofitting
4. No action



n/d - When the data survey was made, this equipment had no serial number identification.