SCHEDULE I

(see rules 2 (1), 3(j) and (k))

Categories of electrical and electronic equipment covered under the rules

Sr. No.	Categories of electrical and electronic equipment
i.	**Information technology and telecommunication equipment :** Centralised data processing: Mainframes, Minicomputers Personal computing: Personal Computers (Central Processing Unit with input and output devices) Laptop Computers(Central Processing Unit with input and output devices) Notebook Computers Notepad Computers Printers including cartridges Copying equipment Electrical and electronic typewriters User terminals and systems Facsimile Telex Telephones Pay telephones Cordless telephones Cellular telephones Answering systems
ii.	**Consumer electrical and electronics:** Television sets (including sets based on (Liquid Crystal Display and Light Emitting Diode technology), Refrigerator, Washing Machine, Air-conditioners excluding centralised air conditioning plants

SCHEDULE II

[See rule 13(2)]

Applications, which are exempted from the requirements of sub-rule (1) of rule 13 (applicable to categories of electrical and electronic equipment as listed in Schedule I)

	Exemption
1	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
1(a)	For general lighting purposes < 30 W:5 mg
1(b)	For general lighting purposes ≥ 30 W and < 50 W:5 mg
1(c)	For general lighting purposes ≥ 50 W and < 150 W:5 mg
1(d)	For general lighting purposes ≥ 150 W:15 mg
1(e)	For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 7mg
1(f)	For special purposes: 5 mg
2(a)	Mercury in double-capped linear fluorescent lamps for general lighting purposes

	not exceeding (per lamp):
2(a)(1)	Tri-band phosphor with normal lifetime and a tube diameter > 9 mm (e.g. T2): 4 mg
2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≥ 17 mm (e.g. T5): 3 mg
2(a)(3)	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8): 3.5 mg
2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg
2(a)(5)	Tri-band phosphor with long lifetime (≥ 25000 h): 8 mg
2(b)	Mercury in other fluorescent lamps not exceeding (per lamp):
2(b)(1)	Linear halophosphalte lamps with tube > 28 mm (e.g T 10 and T12): 10 mg
2(b)(2)	Non- linear halophosphate lamps (all diameters): 15 mg
2(b)(3)	Non- linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9):15 mg
2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps): 15mg
3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
3(a)	Short length (≤ 500 mm): 3.5mg
3(b)	Medium length (> 500 mm and ≤ 1500 mm): 5mg
3(c)	Long length (> 1500 mm): 13mg
4(a)	Mercury in other low pressure discharge lamps (per lamp)
4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra>60:
4(b)-I	P ≤ 155 W: 30mg
4(b)-II	155 W < P ≤ 405 W: 40mg
4(b)-III	P > 405 W: 40mg
4(c)	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
4(c)-I	P ≤ 155 W: 25mg
4(c)- II	155 W <P≤ 405 W: 30mg
4(c)-III	P> 405 W: 40mg
4(d)	Mercury in High Pressure Mercury (vapour) lamps (HPMV)
4(e)	Mercury in metal halide lamps (MH)
4(f)	Mercury in other discharge lamps for special purposes not specifically mentioned in this Schedule
5(a)	Lead in glass of cathode ray tubes
5(b)	Lead in glass of fluorescent tubes not exceeding 0.2 % by weight
6(a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight
6(b)	Lead as an alloying element in aluminum containing up to 0.4%lead by weight
6(c)	Copper alloy containing up to 4% lead by weight
7 (a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)
7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications
7(c)- I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher

7(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC
8(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs.
8(b)	Cadmium and its compounds in electrical contacts
9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution
9(b)	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) application.
11(a)	Lead used in C-press complaining pin connector systems
11(b)	Lead used in other than C-press complaint pin connector systems
12	Lead as a coating material for the thermal conduction module C-ring
13(a)	Lead in while glasses used for optical applications
13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards.
14	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages.
16	Lead in linear incandescent lamps with silicate coated tubes
17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications.
18(a)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as specialty lamps for diazoprinting reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr, Ba)2MgSi2O7:Pb)
18(b)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi2O5:Pb)
19	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact energy saving lamps (ESL)
20	Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCDs)
21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses
23	Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm and less
24	Lead in solders for the soldering to machined through hole discoidal an planar array ceramic multilayer capacitors
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring.
26	Lead oxide in the glass envelope of black light blue lamps
27	Lead alloys as solder for transducers used in high- powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers
29	Lead bound in crystal glass
30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more
31	Lead in soldering materials in mercury free flat fluorescent lamps(which e.g. are used for liquid crystal displays, design or industrial lighting)
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes

33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers
34	Lead in cermet-based trimmer potentiometer elements
36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body
38	Cadmium and cadmium oxide in thick film pastes used on aluminum bonded beryllium oxide
39	Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm^2 of light-emitting area) for use in solid state illumination or display systems.

SCHEDULE III

[See rule 14)]

LIST OF AUTHORITIES AND CORREPONDING DUTIES

Sl No	AUTHORITY	CORRESPONDING DUTIES
1.	Central Pollution Control Board, Delhi	(i) Coordination with State Pollution Control Boards/ Committees of Union territories (ii) Preparation of Guidelines for Environmentally Sound Management of e-waste (iii) Conduct assessment of e-waste generation and processing (iv) Recommend standards and specifications for processing and recycling e-waste (v) Documentation, compilation of data on e-waste and uploading on websites of Central Pollution Control Board (vi) Conducting training & awareness programmes (vii) Submit Annual Report to the Ministry (viii) Any other function delegated by the Ministry under these rules (ix) Enforcement of provisions regarding reduction in use of hazardous substances in manufacture of electrical and electronic equipment (x) Initiatives for IT industry for reducing hazardous substances, (xi) Set targets for compliance to the reduction in use of hazardous substance in manufacture of electrical and electronic equipment (xii) Incentives and certification for green design/products
2.	State Pollution Control Boards/ Committees of Union territories	(i) Inventorization of e-waste. (ii) Grant & renewal of Authorization (iii) Registration of recyclers of e-waste (iv) Monitoring compliance of authorization and registration conditions (v) Maintain information on the conditions imposed for authorization etc. (vi) Implementation of programmes to encourage environmentally sound recycling (vii) Action against violations of these rules (viii) Any other function delegated by the Ministry under these rules

3.	Urban Local Bodies (Municipal Committee/Council/ Corporation)	(i) To ensure that e-waste if found to be mixed with Municipal Solid Waste is properly segregated, collected and is channelized to either authorized collection centre or dismantler or recycler. (ii) To ensure that e-waste pertaining to orphan products is collected and channelized to either authorized collection centre or dismantler or recycler.

FORM – 1

[See rule 9(2)]

APPLICATION FOR OBTAINING AUTHORIZATION FOR GENERATION/ COLLECTION/ STORAGE/DISMANTLING/RECYCLING/ OF E-WASTE*

From: .....

.....

To

The Member Secretary,

..... Pollution Control Board or..... Pollution Control Committee

.....

.....

Sir,

I / We hereby apply for authorization/renewal of authorization under rule 11(2) and 11(6) of the E-wastes (Management and Handling) Rules, 2011 for collection/ storage/ transport/treatment/disposal of e-wastes.

For Office Use Only

Code No. :

Whether the unit is situated in a critically polluted area as identified by Ministry of Environment and Forests (yes/no);

To be filled in by Applicant

Part – A: General

1. (a) Name and full address, telephone nos. e-mail and other contact details of the unit :
   (b) Authorization required for (Please tick mark appropriate activity/ies*)
   (i) Generation* ☐
   (ii) Collection* ☐
   (iii) Dismantling* ☐
   (iv) Recycling* ☐
   (c) In case of renewal of authorization previous authorization no. and date
2. (a) Whether the unit is generating or processing e-waste as defined in the E-wastes (Management and Handling) Rules, 2011

:

(i) generating* ☐
(ii) processing* ☐

*strike off whichever is not applicable

List of Agencies to whom authorization has been granted by Punjab Pollution Control Board under the E-Waste (Management & Handling) Rules, 2011

Sr.	Name and address of the	Location of the facility	Capacity	Authorization No.	Date of Issue	Date of expiry	Remarks	Phone No.
1.	M/s Sony India Pvt. Ltd., SCO 38-G / 39-G, BRS Nagar, Ludhiana.	Collection centre at Jhandewala House, Near Badowal Railway Station, Badowal, Ludhiana.	1.2 TPA	E-Waste/LDH-IV/ 2013/F-02	28/2/2013	04/09/2019		9653352211 Mr Pallav Mahajan e-mail pallav.mahajan@ap.sony.com
2.	M/s Attero Recycling Pvt. Ltd., SCO-14, PSIEC Commercial Complex, Industrial Area-B,Partap Chowk, Overlock	Collection center at SCO- 14, PSIEC Commercial Complex, Industrial Area- B, Partap Chowk, Overlock Road, Ludhiana	900 TPA	E-Waste / Collection Centre / LDH-II/ 2014-15/ R-09	19/8/2014	18/8/2015	-	980055108 Mr. Mandeep) 0161-4600172 email Id mandeep@atter.in
3.	M/s Anand Traders, Freedom Nagar, G.T. Road, Amritsar	Collection Center Freedom Nagar, at G.T Road, Amritsar.	600 TPA	E-Waste Collection Centre/ASR/ 2014-15 R-08	12/6/2014	30/6/2015	-	9417394390
4.	M/s Gurbax Singh & Sons, Village Baran, Sirhind Road, Patiala	Collection center at Village Baran, Sirhind Road, Patiala.	600 MTA	E-Waste/ Collection Center/ PTA / 2014-15/ F-9	23/09/2015	30/04/2016		9814145492 (Mr. Gurbax Singh)

5.	M/s Beetel Teletech Ltd., Plot No. 1-4, Rural Industrial Complex, Hambran, Ludhiana	Collection center at Plot No. 1-4, Rural Industrial Complex, Hambran,	1.20 TPA	E-Waste/ Collection Center/ LDH / 2014-15/ F-10	16-02-2016	29-11-2018		0161-2871261 (Mr. Rajesh Gupta) www.beetal.in rajesh.gupta@beetal.in
6.	M/s Green Vision Solid Waste Management Company, Village Hasanpur Parohatan, Sirhind Road, Patiala	Collection center at Village Hasanpur Parohatan, Patiala.	365 TPA	E-Waste/ Collection Center/ PTA / 2014-15/ F-11	09/09/2014	08/09/2015		9888078599 98147-76939 greenvision.swmc@gmail.com
7.	M/s Ujjwal Recyclers, Shop no. 09, Patiala-Rajpura Road, Near Mohabbat Palace, Rajpura, Distt. Patiala	Collection centre at Shop no. 09, Patiala-Rajpura Road, Near Mohabbat Palace, Rajpura, Distt. Patiala	40 TPA	E-Waste/Collection Centre/F-13	27/4/2015	26/4/2016		Mr. Amanjot Singh,GM 9041299968 www.ujjwalrecyclers.com amanjotsingh271990@yahoo.com
8.	M/s Singbros Mobility Solutions, D-85, Focal Point, Patiala	Collection centre at D-85, Focal Point, Patiala	12TPA	E-Waste/PTA/2013/F-1	27/02/2013	26/08/2013		singbros@gmail.com 09810480351 Sh. Bharat Bhushan, Prop.

9.	M/s Ramky Enviro Engineers Ltd., Vill Nimbuan, Tehsil Dera Bassi, Distt. SAS Nagar.	Collection centre at Vill Nimbuan, Tehsil Dera Bassi, Distt. SAS Nagar.	150 TPA	E-Waste/Collection Centre-cum-dismantling/refurbishing	24/6/2014	31/12/2015		01762-650116 9914260516 Mr. Sandeep Himalayan sandeep.himalayan@ramky.com
10.	M/s Surjit Motor Store, 68, Kabari MKT, Ram Talai, G.T. Road, Amritsar	Collection centre at 68, Kabari MKT, Ram Talai, G.T. Road, Amritsar	40TPA	E-Waste/Collection Centre/F-13	27/4/2015	26/4/2016	-	Sh. Surjit Singh Prop. 93570-02169 93572-26026
11.	M/s Xerotec Engineers, S-127, Industrial Area, Jalandhar	Producer at S-127, Industrial Area, Jalandhar	3000 Pcs/ Annum	E-Waste/Producer	14/1/2014	13/1/2015	-	9814426414 (Mr. Aswani Kumar) 0181-4619841
12.	M/s Spreco Recycling, Mohinder Ganj Road, Opp. Govt. High School, Rajpura, Distt. Patiala.	Collection centre at Mohinder Ganj Road, Opp. Govt. High School, Rajpura, Distt. Patiala	28.75 TPA	E-Waste/Collection Centre/F-14	23/9/2015	22/8/2016	Fresh Auth.	09041299968 (Sh Amanjot Singh) mail ID amanjotsingh271990@yahoo.com

13.	M/s Exigo RecyclingPvt. Ltd.108-C, Industrial Estate, Miller Ganj, Ludhiana	Collection centre at 108-C, Industrial Estate, Miller Ganj, Ludhiana	50 TPA	E-Waste/Collection Centre/F-13	18/8/2015	17/8/2016	Fresh Auth.	09876956343 (Sh. Tejinder Singh) male ID sharmaraman@me.com
14.	M/s Spreco Recycling (Unit-II), Near Barnala Phathak, Sangrur	Collection Centre, Near Barnala Phathak, Sangrur	600 TPA	E-Waste/Collection Centre/F-15	16/11/2015	15/11/2016	Fresh Auth.	09041299968 (Sh Amanjot Singh) mail ID amanjotsingh271990@yahoo.com
15.	M/s Waste Management Industries, E-59, Industrial Focal Point(New), Amritsar	Collection Center, E-59, Industrial Focal Point(New), Amritsar	600TPA	E-Waste/Collection Centre/F-16	26/11/2015	31/10/2017	Fresh Auth.	Sh. Pawan Kumar M.No. 9814111284 Sh Vanit Khanna 9814002356 e-mail ID wmid16@gmail.com

16.	M/s SHS Computers, SCO 09, Mohinder Ganj Road, Near Govt. School, Rajpura, Distt. Patiala.	Collection Center at 09, Mohinder Ganj Road, Near Govt. School, Rajpura, Distt. Patiala.	19.99 TPA	E-Waste/Collection Center/F-17	27/01/2016	31/03/2019	Fresh Auth.	Sh. Satinder Singh, Prop. Mob. No. 086997-81916, 07696942199 e-mail ID shrajpura@yahoo.com
17	M/s Godrej & Boyce Mfg. Co. Ltd. Plot No. A-40, Phase-VIII-A, Indl.Area, Mohali	Producer as individual Collection Center at Plot No. A-40, Phase-VIII-A, Indl.Area, Mohali	10 TPA	E-Waste/ As producer	25/02/2016	31/12/2020	Fresh Auth.	Mr. Anil B.Rijhwani, Asstt. Vice President , Phone No. 0172-5037500 website www.godrej.com