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Form-6
[See rule 19]

E-WASTE MANIFEST

1.	Sender's name and mailing address (including Phone No.)	Gurhar Group of Institutes, Khanna, Ludhiana
2.	Sender's authorisation No, if applicable.	NA
3.	Manifest Document No.	SR/2019/M-617
4.	Transporter's Name and Address (including Phone No.):	Spreco Recycling, Ludhiana
5.	Type of vehicle	(Truck or Tanker or Special Vehicle) _____
6.	Transporter/s registration No.	_____
7.	Vehicle Registration No.:	PB 65 BB 2158
8.	Receiver's Name & Address :	SPRECO RECYCLING, D-45, Indus. Focal Point, Raikot, Ludhiana
9.	Receiver's authorisation No, if applicable.	0186DH4741082
10.	Description of E-Waste (Item, Weight/ Numbers) :	E-waste (80kg)
11.	Name and stamp of Sender* (Manufacturer or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler): Signature:	Month Day Year 06 25 2022
12.	Transporter acknowledgement of receipt of E-Wastes Name and stamp: Recycling Signature: Year For Spreco Recycling Partner	Month Day 06 25 2022
13.	Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler) certification of receipt of E-waste Name and stamp: Signature: Year For Spreco Recycling Partner	Month Day 06 25 2022

* As applicable





SPRECO RECYCLING

(Punjab Pollution Control Board authorized E-waste Recycler)
Deals in: Waste of Electronic & Electrical Equipments

Corporate Office-SCO 13 ,Opp. Govt. High School, Mohinder Ganj
Road, Rajpura, Patiala (PB)-140401
Processing Plant- D-45, Industrial Focal Point, Raikot , Ludhiana
HELPLINES : 083604-33051. 090412-99968
Email-sprecorecycling@rediffmail.com
Website : www.sprecorecycling.com

MEMBERSHIP AND E-WASTE OFF TAKE AGREEMENT

This agreement is made on 1st October, 2021 between SPRECO RECYCLING, D-45, Industrial Focal Point, Raikot, Ludhiana-141106 (Punjab) here in after called Operator, Recycler, E- WASTE RECYCLING through its Managing Partner, Mr. Amanjot Singh.

AND

GULZAR EDUCATIONAL AND CHARITABLE TRUST, G.T. Road, Khanna, Ludhiana (Punjab) – 141401 here in after called Generator through its Director, Dr. Honey Sharma.

Whereas

1. SPRECO RECYCLING is engaged in collection of E-Waste and recycling.
2. The Generator desires to get its E-waste , being generated at the production units mentioned above as per the requirement of Punjab Pollution Control Board to be collected by the authorized recycler , to which the recycler has agreed on the terms and conditions in this agreement.
3. The generator shall not sell the E-waste to any other person or bill to any other person. In case the generator sells the E-waste to any other person other than Spreco Recycling , the present agreement shall be CANCELLED.
4. The generator shall ensure that the E-waste is packaged in a manner which enables it suitable for storage and transport and the labeling and packaging shall be easily visible and be able to withstand physical conditions and climate factors, such packaging and labeling should be in full compliance of the rules.

For Spreco Recycling



5. Through this agreement, Spreco Recycling commits to providing E-waste collection services to the said generator.
6. Spreco Recycling shall provide the generator with all the details of the E-waste material that will be lifted from generator site whenever desired by the generator.
7. Spreco Recycling is also liable in disposing off material as per the regulations laid under E-waste management and handling rules, 2011.
8. Providing information to Spreco Recycling regarding the generation of any kind of E-waste shall be entirely the generator responsibility over course of this agreement.
9. This agreement shall be valid for ONE (1) Year starting from 01/10/2021 to 30/09/2022.
10. This agreement may be modified or amended only by writing, duly executed by or on behalf of the parties hereto.
11. A person lifting the E-waste should have an Authorization letter.

IN WITNESS WHEREOF the Parties hereto have executed this Agreement the day and year first here in above written.

For Spreco Recycling

For Gulzar Educational and Charitable Trust

For Spreco Recycling

[Handwritten signature]
Partner

Place:

Khanna.

Date:

1/10/2021,

[Handwritten signature]



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(Punjab Pollution Control Board authorized E-waste Recycler)
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For Spreco Recycling

Amanjot Singh
Partner



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For Spreco Recycling

For Spreco Recycling

Partner

Place:

Khanna.

Date:

1/10/2020.

For Gulzar Educational and Charitable Trust







SPRECO RECYCLING

(Punjab Pollution Control Board authorized E-waste Recycler)
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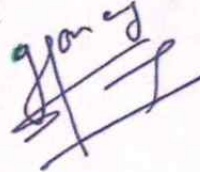
For Spreco Recycling

For Spreco Recycling

Partner

Place: *Khanna.*
Date: *1/10/2019.*

For Gulzar Educational and Charitable Trust





SPRECO RECYCLING

(Punjab Pollution Control Board authorized E-waste Recycler)
Deals in: Waste of Electronic & Electrical Equipments

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For Spreco Recycling

Amanjot Singh
Partner



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9. This agreement shall be valid for ONE (1) Year starting from 01/10/2018 to 30/09/2019.
10. This agreement may be modified or amended only by writing, duly executed by or on behalf of the parties hereto.
11. A person lifting the E-waste should have an Authorization letter.

IN WITNESS WHEREOF the Parties hereto have executed this Agreement the day and year first here in above written.

For Spreco Recycling

For Gulzar Educational and Charitable Trust

For Spreco Recycling

Partner



Place: Phanna
Date: 1/10/18



SPRECO RECYCLING

(Punjab Pollution Control Board authorized E-waste Recycler)
Deals in: Waste of Electronic & Electrical Equipments

Corporate Office-SCO 13 ,Opp. Govt. High School, Mohinder Ganj
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MEMBERSHIP AND E-WASTE OFF TAKE AGREEMENT

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For Spreco Recycling

GULZAR GROUP OF INSTITUTIONS

5. Through this agreement, Spreco Recycling commits to providing E-waste collection services to the said generator.
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8. Providing information to Spreco Recycling regarding the generation of any kind of E-waste shall be entirely the generator responsibility over course of this agreement.
9. This agreement shall be valid for ONE (1) Year starting from 01/10/2017 to 30/09/2018.
10. This agreement may be modified or amended only by writing, duly executed by or on behalf of the parties hereto.
11. A person lifting the E-waste should have an Authorization letter.

IN WITNESS WHEREOF the Parties hereto have executed this Agreement the day and year first here in above written.

For Spreco Recycling

For Spreco Recycling

For Gulzar Educational and Charitable Trust

Place: Khanna.

Date: 1/10/2017.





पंजाब PUNJAB

AF 464091

Ashok Kumar
In & Through Out
Ludhiana
Regd. No. 3976
Exp. Dt. 12-4-22

AGREEMENT FOR TAKE OFF/PURCHASE OF E - WASTE

M/S JINDAL TRADING CO. (A DIVISION OF UNIQUE ECO RECYCLE) SCO-86, New Grain Market, Gill Road, Ludhiana (Punjab) herein referred to as "the Collector" Represented by Sh. Mohit Jindal, Prop. As party no. 1

AND

Gulzar Group of Institutes Opp. Village Libra, G T Road, Khanna Dist. Ludhiana (Punjab) herein referred to as "the Generator", which expression shall unless repugnant to the context or meaning thereof, mean and include its successors and permitted assigns represented by Mr. Rohit Malik (Chief Accountant). As Party No. 2

WHREAS

JINDAL TRADING CO. having authorization for operation of a facility for collection, Reception, Storage, Disposal of E -Wastes generated from Punjab Pollution Control Board.

SCOPE OF THE AGREEMENT

JINDAL TRADING CO. shall collect, transport and dispose the E - Waste collected from the premises of the Generator. It shall be chargeable in accordance with the terms of the contract.

Upon intimation from the Generator, JINDAL TRADING CO. shall within 15 days there from arrange for collection of E -Wastes per the applicable provisions.



Ashok Kumar
In & Through Out
Ludhiana
Regd. No. 3976
Exp. Dt. 12-4-22

ਨੰ. 1182 20/9/17
ਮਿਤੀ ਪਿਛ

ਜੀਮਟ 52 ਟੋਪੀ ਪੰਨਾ 25 ਸਾਰ ਠਾਕੁ ਮਾਠ ਲਿਖੀਓ
ਬਰਕਤ ਰਾਸਤੇ ਕੜਮ ਪੰਨਾ

ਜਿਤ ਸਿੰਘ ਖਾਨਾ ਵੱਲੋਂ
ਖੋਲਾ

ਦੁਆਰਾ





PAYMENTS

JINDAL TRADING CO. shall pay an amount as agreed on taxes per each kilogram for payment of E -Waste collected shall be as per the nos. slip submitted and accepted.

TERMS AND TERMINATION

This Agreement shall be in force for a period of 1 Year from the date of signing of this Agreement. Upon completion of the term, the Agreement may be renewed at the option of both the Parties in writing on mutually agreed terms and conditions.

The Agreement may be terminated by either party without assigning any reason by giving fifteen (15) days prior written notice to the other party.

COMPLIANCE WITH LAWS

JINDAL TRADING CO. represents and warrants to the Generator that it has all necessary statutory permissions, consents, approvals and licenses to carry out business of collection, storage, management and disposal of plastic waste and it shall maintain all such permissions, consents, approvals and licenses during the terms of this Agreement.

It shall notify the Generator immediately if any permissions, licenses, certificate, consents, approvals or identification number required for the performance of its service under the Agreement has been revoked, modified, expired, suspended or not been renewed.

This Agreement has been signed in two counterparts, each of which shall be deemed as an original but both of which together shall constitute one and the same instrument and has been signed by the duly authorized representatives of each party here to.

For JINDAL TRADING CO.
LIMITED

Certified that affidavit/SSP/GPA have been readover & explained to this deponent excutant who seemed directly to understand the same at the time making thereof.

For Gulzar Group of Institutes

Mr. Rohit Malik
(Chief Accountant)



For Jindal Trading Co.

Auth. Signatory
Mohd Ahad (S.B.D.M)
(Auth Sign.)

Dated:

ATTESTED

NOTARY
ASHOK KUMAR
In & Through Out
LUDHIANA
KHANNA (PB.)
21/9/17

Dated:





PUNJAB POLLUTION CONTROL BOARD

Zonal Office-II, E-648-B, Backside CICU Office, Phase-5, Focal Point, Ludhiana

Website:- www.ppcb.gov.in

Office Dispatch No : _____ Registered/Speed Post _____ Date: _____
Industry Registration ID: 018LDH4741082 Application No : 7097949

To,
AMANJOT SINGH
RAJPURA,PATIALA-140401

Subject: Grant of 'Consent to Establish'(NOC) for an industrial unit u/s 25 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981.

With reference to your application for obtaining fresh 'Consent to Establish'(NOC) an industrial plant u/s 25 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are, hereby, permitted to establish the industrial unit to discharge the effluent(s) & emission(s) arising out of your premises subject to the Terms and Conditions as specified in this Certificate.

1. Particulars of Consent to Establish (NOC) granted to the Industry

Certificate No.	CTE/Fresh/LDH4/2018/7097949
Date of issue :	01/03/2018
Date of expiry :	28/02/2019
Certificate Type :	Fresh

2. Particulars of the Industry

Name & Designation of the Applicant	AMANJOT SINGH, (MANAGING PARTNER)
Address of Industrial premises	Spreco recycling, D-45, industrial focal point, Raikot,Ludhiana iv-141106
Capital Investment of the Industry	100.0 lakhs
Category of Industry	Red
Type of Industry	1073-Common treatment and disposal facilities - E-waste recycling
Scale of the Industry	Small
Office District	Ludhiana iv
Consent Fee Details	Rs. 4700/- vide UTR No. 836297980 dated 10-02-2018 and Rs. 1300/- vide cheque no. 000030 dated 15-02-2018
Raw Materials (Name with quantity per day)	ELECTRONIC WASTE @ 3 Metric Tonnes/Day

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Spreco recycling,D-45, industrial focal point,Raikot,Ludhiana iv,141106

Page 1



Products (Name with quantity per day)	Refurbishing Facility to handle the E-Waste @ 3 MTD with Refurbished electronic items @ 2.5 Metric Tonnes/Day and Segregated plastic and metals @ 0.5 Metric Tonnes/Day
By-Products, if any,(Name with quantity per day)	-
Details of the machinery and processes	Machinery required for refurbishing of E-waste and allied processes
Details of the Effluent Treatment Plant	Domestic Effluent @ 945 Ltrs/day
Mode of Disposal of Effluent	Public Sewer
Standards to be achieved under Water (Prevention & Control of Pollution) Act, 1974	As per the guidelines issued by CPCB for E-waste management
Sources of emissions and type of pollutants	As per the guidelines issued by CPCB for E-waste management
Mode of disposal of emissions with stack height	As per the guidelines issued by CPCB for E-waste management
Quantity of fuel required in TPD	-
Type of Air Pollution Control Devices to be installed	As per the guidelines issued by CPCB for E-waste management
Standards to be achieved under Air (Prevention & Control of Pollution) Act, 1981	As per the guidelines issued by CPCB for E-waste management

R.K. Ratra

01/03/2018

(R.K.Ratra)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

Environmental Engineer, Punjab Pollution Control Board, Regional Office-4, Ludhiana with the request to report w.r.t the compliance of specific conditions as per the time scheduled allowed to the project proponent.

R.K. Ratra

01/03/2018

(R.K.Ratra)
Environmental Engineer

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Spreco recycling, D-45, industrial focal point, Raikot, Ludhiana iv:141006

Page 2





ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਕੰਟਰੋਲ ਬੋਰਡ
PUNJAB POLLUTION CONTROL BOARD

Zonal Office-II, E-64B-II, Backside CICU Office, Phase-5, Focal Point, Ludhiana

Ph: 0181-2670141

E-Mail: seezo2ldhppcb@yahoo.com

No. PPCB/SEE/ZO-2/LDH/2019/1707

Dated 17/05/2019

REGISTERED

To

M/s Spreco Recycling,
Industrial Focal Point, Tehsil Raikot,
Ludhiana.

Subject: Authorization under E-Waste (Management) Rules, 2016 as amended in 2018 to M/s Spreco Recycling, Industrial Focal Point, Tehsil Raikot, Ludhiana for its e-waste dismantling, recycling and refurbishing facility.

- (a) Number of authorization : E-Waste/ LDH/SEE/ZO-2/2019/F- I
(b) Date of issue : 17-05-2019
(c) Date of expiry : 30-06-2023
(d) Type of facility : Dismantling, recycling and Refurbishment
(e) Total quantity of e-waste to be handled by the facility : 1) Dismantling and Recycling of E-Waste @ 0.8 TPD
2) Refurbishment of E-waste @ 1 TPD

Sh. Amanjot Singh, Managing Partner of M/s Spreco Recycling, Industrial Focal Point, Tehsil Raikot, Ludhiana is hereby granted an authorization for dismantling and recycling of E-Waste @ 0.8 TPD and refurbishment of E-Waste @ 1 TPD in Industrial Focal Point, Tehsil Raikot, Ludhiana in Schedule-I of the E-Waste (Management) Rules, 2016 subject to the following conditions:

A) General Conditions

1. The Company shall obtain registration from the Board under the E-Waste (Management) Rules, 2016 before commissioning its activities.
2. The Company shall maintain record of e-waste handled in Form-II and file annual return in Form-III to the Board.
3. The authorization is valid upto 30-06-2023 from its date of issue.
4. An application for the renewal of authorization shall be made as laid down in sub-rule(6) of rule of 9 the E-Waste (Management) Rules, 2016.
5. The Company shall provide address, telephone nos., helpline, e-mail etc. of its authorized facility to the general public.
6. The Company shall ensure that e-waste collection by it is stored in a secured manner till it is sent to registered recycler(s).
7. The Company shall ensure that no damage is caused to the environment during storage, segregation, dismantling & transportation of e-waste.
8. The authorized facility shall be secured with boundary wall & security personnel.
9. The storage capacity of facility shall in commensurate with available area, volume of operations and type of e-waste.
10. Both sheds and open space with impervious flooring shall be permitted for storage /segregation/refurbishing/dismantling of e-waste.
11. The containers of appropriate size and shape shall be used for segregation of e-waste items to facilitate effective handling & recycling operations. The containers shall made



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- either of wood or plastic or mild steel or any other appropriate material with sufficient strength & shapes for holding the e-waste. These containers shall be placed in such a way that there is adequate space for movement of man & material.
12. The facility where white goods i.e. refrigerators & air conditions are also stored, shall have adequate facilities for handling / arresting leakage of compressor oils, CFCs / HCFCs, if any.
 13. The Company shall follow guidelines for implementation of the E-Waste (Management) Rules, 2016 published by the Central Pollution Control Board from time to time.
 14. The Company shall maintain records in Form-2 of the e-waste handled and make such records available for scrutiny by the Punjab Pollution Control Board.
 15. The Company shall file annual returns in Form-3 to the Punjab Pollution Control Board before 30th day of June following financial year to which that return relates.
 16. The authorization is subject to the conditions as may be specified in the rules in force under the Environment (Protection) Act, 1986.
 17. The authorized facility shall comply with provisions of the Environment (Protection) Act, 1986 and the Rules made there under.
 18. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Punjab Pollution Control Board.
 19. The person authorized shall not rent, lend, sell, transfer the e-waste to any person(s) who have not been authorized by the Punjab Pollution Control Board.
 20. Any authorized change in personnel or working conditions as mentioned in the application by the person authorized shall constitute a breach of the authorization.
 21. It is the duty of the Company/authorized facility to take prior permission of the Punjab Pollution Control Board in case they intend to close their business and cease to be a Collection Center-cum-dismantling/refurbishing facility.
 22. The Company on commissioning its Collection Center-cum-dismantling/refurbishing facility, shall inform the Environmental Engineer, Punjab Pollution Control Board, Regional Office-4, Ludhiana alongwith a status report on the compliance of conditions imposed in this authorization, for verification and further action.
 23. The authorized person/facility shall not store e-waste for a period exceeding 180 days and shall maintain a record of collection, sale, transfer, storage, segregation and dismantling/refurbishing of wastes and make these records available for inspection.
 24. The authorized person /facility is authorized to collect the e-waste from consumers, bulk consumers, urban local bodies and retail outlets/collection points/collection bins/mobile units etc. established by producers or collection centers and store safely for necessary channelization for dismantling/recycling.
 25. The authorized person /facility shall provide the details of collection mechanism adopted for collection of e-waste from various sources and consequently, segregation / dismantling / refurbishing of e-waste.
 26. The authorized person /facility can set up collection points or bins or drop-off points and link them to their authorized collection centre.
 27. The collection points can be designated places, where e-waste can be collected through residential areas, office complexes, commercial complexes, retail outlets, customer care stores, educational and research institutions, resident welfare association (RWAs), NGOs working with rag pickers, etc. The e-waste collected through these points should be transported to the authorized facility.



28. Collection Bins could be installed in public places such as kerb sides, restaurants, malls, offices etc. which can be owned by the authorized facility.
29. The contact details of authorized collection agencies should be printed on these bins for reference purposes of the general public. The e-waste collected in these bins should be transported to authorized facility.
30. Mobile collection vans can also act as collection systems for door to door collection of e-waste or from institutions/individuals/small enterprises and such vans shall be linked to authorized facility.
31. The authorized person/facility shall ensure that the collection bins provided along the kerbs shall cause no damage to the environmental during storage and transportation till the e-waste reaches its authorized facility by undertaking periodic inspections and verifications.
32. The collection, transportation, storage, handling and dismantling/refurbishing of e-waste in the authorized facility has to be done carefully without breaking the end of life equipments.
33. The authorised person/facility shall take special care for proper packaging for any such equipment during the storage/transportation of e-waste in itself may not pose any threat to human health and environment. However broken equipment can be a potential safety hazard for those engaged in handling and transporting e-waste. Sufficient additional measures, including training, shall be taken to safeguard occupational and environmental health and safety.
34. The authorized person/facility shall assess their individual requirements and design a collection system as they deem appropriate as long as it facilitates channelization of WEEE (waste electrical and electronic equipment) for environmentally sound management.
35. The authorized person /facility shall ensure that spillage collection facilities include the impermeable pavement and sealed drainage system as the primary means of containment. However, spill kits to deal with spillages of oils, fuel and acids should be provided and used as appropriate.
36. The authorized person /facility shall ensure that adequate numbers of container proportionate to the applied capacity are available for storing e-waste.
37. The authorized person /facility shall ensure that facility should have arrangement in place for transferring the e-waste to the registered recycler.
38. The Company/authorized facility shall ensure collection of e-waste generated from the "end of life" of their products in line with the principle of "Extended Producer Responsibility". The Company shall ensure collection and channelization of such e-waste either by its own collection center(s)/ take back systems or through its authorized collection centers/recycling or dismantling facilities and such list shall be updated from time to time as per the requirement of the Punjab Pollution Control Board.
39. The Company/authorized facility shall ensure setting up of collection center(s) or take back systems either individually or collectively as per the guidelines given in the E-Waste (Management) Rules, 2016. The Company/authorized facility shall either individually or collectively shall finance or organize such systems of collection/take back, transportation, storage and channelization for environmentally sound management of e-waste.
40. The Company/authorized facility may manage such system directly or with the help of any professional agency on his behalf. However, the Company/authorized facility has to submit details of such arrangement along with returns to the Punjab Pollution Control Board.



41. The Company/authorized facility shall publicize the contact details of its authorized collection centers and collection points or its collection mechanism to the consumers. The detailed information shall comprise of the full address, telephone number, fax number, e-mail etc. for each State. The helpline number (like call centre) may also be publicized so that the consumer can reach the nearest collection centre from where he/she is located for return of used/end of life electrical/electronic equipment(s). The Company/authorized facility shall periodically update these information. The Company/authorized facility, while filing the return, shall submit the details of such updations to the Punjab Pollution Control Board.
 42. The Company/authorized facility shall create awareness regarding the hazardous constituents present in the equipment(s) as well as the safe handling and disposal of the product(s) after its use. In case of the products complying with the provisions of Rule 13(1) of the E-Waste (Management) Rules, 2016, the same shall be indicated in the product information booklet. The Company/authorized facility should also state Do's & Don'ts for handling the end of life equipments. The Company/authorized facility also has to affix a visible, legible and indelible symbol as depicted below on the products or information booklets to prevent e-waste from being dropped in garbage bins containing waste destined for disposal symbol may be placed on the products or printed in the accompanying product documentation.
 43. The authorized person shall report about the accidents which occurs at the hazardous waste storage/treatment site, immediately to Board.
 44. The authorized person /facility shall handle the hazardous waste strictly in accordance with the provisions of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 as amended in 2010 and guidelines issued by Central Pollution Control Board/Ministry of Environment & Forests, New Delhi. .
 45. The first step is to decontaminate E-waste and render it non-hazardous. This involves removal of all types of liquids and gases (CFCs, HCFCs, ammonia) under negative pressure. Hg-switches, Poly Chlorinated Biphenyl (PCB) and their recovery and storage. CFCs are treated thermally, PCB is incinerated or dispose of in secured landfills, Mercury (Hg) is often recycled or disposed off in secured landfill sites.
 46. Manual dismantling can be carried out over the dismantling table with space de-dusting hoods connected with bag dust collectors venting out through a chimney of 3 meter above roof level so as to maintain desirable work zone air quality as per the factory act, 1948. Collection box with adequate capacity in sufficient number should be placed near dismantling table for keeping the dismantled component. The workers involved in dismantling operation should have proper equipment for dismantling the e-waste.
 47. The Board reserves the right to revoke this authorization at any time, in case the authorized producer is found violating any of the conditions of authorization granted under the E-Waste (Management) Rules, 2016 framed under the Environment (Protection) Act, 1986 as amended from time to time.
- A) General Conditions of Dismantlers**
1. A dismantler shall be connected to either Producers or PRO or e-waste exchange or take-back system or authorised recycler.
 2. A dismantler has to obtain consent to establish from SPCBs/PCCs under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981



3. A dismantler has to obtain consent to operate from SPCBs/PCCs under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981
4. A dismantler has to obtain authorisation from SPCBs/PCCs under E Waste (Management) Rules, 2016, provided that any person authorised/registered under the provisions of the Hazardous Wastes (Management, Handling and Transboundary Movements) Rules, 2008, and the E-waste (Management & Handling) Rules, 2011 prior to the date of coming into force of these rules shall not be required to make an application for authorisation till the period of expiry of such authorisation/registration.
5. The unloading of e-waste/end of life products should be carried out in such a way that there should not be any damage to health, environment and to the product itself. Unloading of Cathode Ray Tubes (CRT), LCD / LED / Plasma TV, refrigerator, air conditioners and fluorescent and other mercury containing lamps should be carried out under supervision in such a way to avoid breakage.
6. A dismantler should have facilities for destroying or permanently deleting data stored in the memory of end of life products (Hard Disk, Telephones, Mobile phones) either through hammering or through data eraser.
7. Dismantlers may perform the following operations:-
 - (i) De-dusting
 - (ii) Manual dismantling
8. Dismantling operation shall comprise of physical separation and segregation after opening the electrical and electronic equipment into the component by manual operations.
9. Dismantler may use screwdrivers, wrenches, pliers, wire cutters, tongs and hammers etc. for dismantling. The dismantled components should be sent to authorised e-waste recyclers or recyclers having valid consent to operate (CTO).
10. Manual dismantling operations should be carried out over the dismantling table with space de-dusting system so as to maintain desirable work zone air quality as per the factories Act as amended from time to time. The de dusting system should consist of suction hoods over dismantling table connected with a cyclone, bag filter and venting through a chimney of three-meter height above roof level.
11. Collection boxes should be placed near dismantling table for keeping the dismantled components.
12. The workers involved in dismantling operation should have appropriate equipment such as screwdrivers, wrenches, pliers, wire cutters, tongs and hammers etc. for dismantling the e-waste.
13. During dismantling operations, the workers should use proper personal protective equipment such as goggles, masks, gloves, helmet and gumboot etc.
14. The following dismantled items and components must be removed from end of life products and stored in a safe manner for transportation to recyclers:
 - (i) Batteries
 - (ii) Printed Circuit Boards (PCBs) of EEE
 - (iii) Toner cartridges
 - (iv) Plastic
 - (v) External Electrical Cables
15. Volume/Size reduction may be carried out after dismantling operations for the parts like steel/aluminium/plastic, for ease of transportation. Dismantled and segregated plastic



- from e-waste shall only be given to registered plastic recyclers having registration under Plastic Waste (Management) Rules, 2016.
16. During the volume/size reduction of dismantled steel/aluminium/plastic parts, the dismantlers should have arrangement for dust and noise controls. These operations should be under acoustic enclosure for noise reduction.
 17. Dismantlers shall not carry out shredding / crushing / fine grinding/wet grinding/enrichment operations and gravlly/ magnetic/density/addy current separation of printing circuit Board or the components attached with the circuit board.
 18. Dismantlers shall not be permitted for dismantling of fluorescent and other mercury containing lamps, CRT / LCD / Plasma TV.
 19. Dismantlers shall not be permitted for chemical leaching or heating process or melting the material.
 20. In case of dismantling refrigerators and air conditioners, only skilled manpower having required tools and personal protective equipment (PPEs) must be deployed to manually separate compressors. Prior to dismantling the compressors, adequate facilities should be provided for collection of coolant/refrigerant gases and compressor oil.
 21. Dismantled circuit boards, capacitors, batteries, capacitors containing PCBs (Polychlorinated biphenyls) or PCTs (Polychlorinated terphenyls) etc. shall not be stored in open.
 22. Dismantlers should have adequate facilities for managing leakage of compressor oils, coolant/refrigerant gases such as CFCs/HCFCs and mercury from end of life fluorescent and other mercury containing lamp etc. Spills involving broken Fluorescent lamps, Oils spills should first be contained to prevent spread of the material to other areas. This may involve the use of dry sand, proprietary booms / absorbent pads, stabilizing chemicals etc. for subsequent transfer to hazardous waste TSDFs.
 23. The premise for dismantling operation should fulfil the following requirements:
 - a) Water proof roofing and impermeable surfaces.
 - b) Storage space for dissembled spare parts.
 - c) Separate containers for storage of batteries, capacitors containing PCBs (Polychlorinated biphenyls) or PCTs (Polychlorinated terphenyls)
 24. A dismantler needs space for storage of electrical and electronic equipment up to 180 days, for process of dismantling and volume reduction and space for storage of dismantled and segregated material and free space for movement and office/administration and other utilities. It is estimated that a minimum of 300 square meter area for a dismantling capacity of 1T/day is required for storage of raw material, segregated material, dismantling operations and office/ administration & other utilities.
- B) General Conditions of Recycler**
1. The Product of recyclers has to be sent or sold to users or other recyclers having valid CTO from SPCBs/PCCs. Any hazardous waste generated during the recycling processing will be sent to TSDF
 2. A recycler should be part of producer's channelisation system.
 3. A recyler has to obtain consent to establish from SPCBs/PCCs under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.
 4. A recycler has to obtain consent to operate from SPCBs/PCCs under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981



5. A recycler has to obtain authorisation from SPCBs/PCCs under E Waste (Management) Rules, 2016, provided that any person authorised/registered under the provisions of the Hazardous Wastes (Management, Handling and Transboundary Movements) Rules, 2008, and the E-waste (Management & Handling) Rules, 2011 prior to the date of coming into force of these rules shall not be required to make an application for authorisation till the period of expiry of such authorisation/registration.
6. A recycler should have weigh bridge and other appropriate weighing equipment for weighing each delivery received by it and maintain a record in this regard.
7. The unloading of end of life product should be carried out in such a way that there should not be any damage to health, environment and to the product itself. Unloading of Cathode Ray Tubes (CRT), LCD/LED/Plasma TV, Refrigerator, Air Conditioners and fluorescent and other mercury containing lamps should be carried out under supervision in such a way to avoid breakage.
8. A recycler should have facilities for destroying or permanently deleting data stored in the memory of end of life products (Hard Disk, Telephones, Mobile phones) either through shredding or grinding or through data eraser.
9. The functions of the recyclers include dismantling along with recovery operation. There shall be no restriction on degree of operations that can be permitted for recyclers provided they have requisite facilities. The following processes should be employed by recyclers:
 - (i) Manual / semi- automatic / automatic dismantling operations
 - (ii) Shredding / crushing / fine grinding/wet grinding/ enrichment operations, gravity/magnetic/density/eddy current separation
 - (iii) Pyro metallurgical operations - Smelting furnace
 - (iv) Hydro metallurgical operations
 - (v) Electro-metallurgical operations
 - (vi) Chemical leaching
 - (vii) CRT/LCD/Plasma processing
 - (viii) Toner cartridge recycling
 - (ix) Melting, casting, moulding operations (for metals and plastics)
10. A recycling facility may accept e-waste and even those electrical and electronic assemblies or components not listed in Schedule- I for recycling, provided that they do not contain any radioactive materials and same shall be declared while taking the authorisation from concerned SPCBs/PCCs;
11. The recycling facilities shall comply with the requirements as specified for dismantlers in the guidelines for dismantling in section 6.0.
12. A recycling facility shall install adequate wastewater treatment facilities for process wastewater and air pollution control equipment (off gas treatment, wet/alkaline/packed bed scrubber and carbon filters) depending on type of operations undertaken.
13. De dusting equipment such as suction hood shall be installed where manual dismantling is carried out.
14. Fume hoods connected with bag dust collectors followed wet (chemical) scrubbers and carbon filters shall be installed for control of fugitive emissions from furnaces or reactor.
15. Noise control arrangement for equipment like crusher, grinder and shredder needs to be provided.
16. The discharges from the facility shall comply with general standards under E (P) Act, 1986 for discharge of wastewater.
17. In case of air emissions, the unit shall comply with emission norms prescribed under Air (Prevention and Control of Pollution) Act, 1981. In case of furnace, a minimum stack height of 30 meter shall be installed depending on emission rate of SO₂.



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18. The workers involved in recycling operations shall use proper personal protective equipment such as goggles, masks, gloves, helmet and gumboot etc.
19. Adequate facilities for onsite collection and storage of bag filter residues, floor cleaning dust and other hazardous material shall be provided and sent to secure landfill by obtaining membership of TSDF.
20. The CRT / LCD / Plasma TV should be processed only at a recycler's facility.
21. For recycling of CRT monitor and TVs care should be taken to contain release of harmful substances. The steps for processing of CRT are as below:
 - (i) CRT monitors and TVs should be manually removed from plastic/ wooden casing. The CRT should be split into funnel and panel glass using different splitting technology such as Ni-Chrome hot wire cutting, Diamond wire method or Diamond saw separation in a closed chamber under low vacuum conditions (650 mm of Hg).
 - (ii) The funnel section is then lifted off from the panel glass section and the internal metal gasket is removed for facilitating the removal of internal phosphor coating.
 - (iii) The internal phosphor coating from the inner side of panel glass is removed by using an abrasive wire brush with suction arrangement under low pressure as given above at (i). The extracted air is cleaned through high efficiency bag-filter system and collected in appropriate labelled containers and then disposed at an authorised TSDF.
 - (iv) Manual shredding, cutting, and segregation operations for CRTs should be carried out in low vacuum (650 mm of Hg) chambers where the dust is extracted through cyclones, bag filters, ID fan and a suitable chimney.
 - (v) Segregated CRTs can also be shredded in mechanical/automatic shredding machines connected with dust control systems. The mixed shredded glass is separated into leaded glass and glass cullet using electro-magnetic field or by density separation.
22. For LCD and Plasma TV a recycler should have sealed vacuum dismantling platform for dismantling of LCD / Plasma panels. The LCD / Plasma TV should be dismantled piece by piece, starting with the removal of the plastic backing shell, printed circuit boards, aluminium or steel frame, screen, PET plastics, LCD Panel and backlight. The metal frame, wire, other metallic material and plastic backing cabinet may be sent to recyclers with valid CTO. Printed Circuit Board and LCD panel may be recycled or in case recycling facility is not available then sent to respective authorised recycling facility.
23. The user of the products obtained in the recycler facility should be identified and an agreement may be entered with them for selling of the products obtained in these recycling facilities. This is for tracking the product of recycling, to ascertain where the products are going.
24. Recovery of resource and particularly of precious metals present in the e-waste should be given importance.
25. For fluorescent and other mercury containing lamp recycling, the unit shall have at least following systems:
 - (i) Mechanical feeding system.
 - (ii) Mercury spill collection system.
 - (iii) Lamp Crushing System, under vacuum, for separation of mercury-contaminated phosphor powder & mercury vapors from other crushed components, so as not to cause release of any pollutant, including mercury vapor.
 - (iv) System for segregation of mercury vapour from the phosphor powder through a distillation system for separation & recovery of mercury.
 - (v) Air pollution control system (APCS) which shall include HEPA (High Efficiency Particulate Arrestor) filter system or activated carbon filter system or any other equivalent efficient system for separation/ removal of mercury vapor from mercury contaminated phosphor powder
 - (vi) Arrangement for disposal of mercury contaminated filter pads to TSDF.
 - (vii) On line mercury monitoring system, to have check on emission of mercury, which has to be in compliance to the consented norms.



26. The fluorescent and other mercury containing lamp recycling unit shall have following obligations:
- (i) The emission outlet shall comply with the norms for mercury prescribed in the consent document. The norm for mercury emission is 0.2 mg/m³ (Normal) as prescribed under E (P) Act, 1986 for mercury emission from other category of industries.
 - (ii) For discharge of effluent the limit for mercury as (Hg) should be less than equal to 0.01mg/liter as prescribed under E (P) Act, 1986.
 - (iii) The unit shall have trained / skilled manpower to handle hazardous substances such as mercury mixed phosphor in respect of treatment/recycling.
 - (iv) The unit shall dispose all the unrecoverable wastes from the treatment site, to a TSDF
 - (v) The unit shall maintain record of used fluorescent and other mercury containing lamp collected & recycled, recovery of mercury and other components. It shall, also, maintain the records pertaining to the generation, storage, transport and disposal of the wastes generated in the process.
 - (vi) The unit shall take up ambient air quality monitoring, particularly, in reference to mercury levels with a frequency of once in a month through a recognized laboratory, for third party verification.
27. As a general rule a recycler of capacity of 1 Ton per day shall require a minimum of 500 square meters area. Authorisation to recyclers may be preferred if they have minimum operational capacity of 5 MT/day with an area of about 2500 square meter.

C) General Conditions of Refurbisher

1. A refurbisher has to obtain consent to establish under the Water (Prevention and Control of Pollution) Act, 1974, (25 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (21 of 1981) from the concerned State Pollution Control Board/Pollution Control Committee.
2. A refurbisher has to obtain certificate of registration and proof of installed capacity from District Industries Centre or any other government agency authorised in this regard;
3. A refurbisher has to obtain one-time authorization from concerned State Pollution Control Board/Pollution Control Committee.
4. A refurbisher should have system to manage leakage of coolant/refrigerant gases and compressor oils from used electrical and electronic equipment during refurbishing operations.
5. The refurbishing area should be ventilated and have proper dust control equipment.
6. De-dusting system over refurbishment tables should be provided
7. Any e-waste generated during refurbishment should be collected separately and sent to collection centre /authorised recycler. In case of refurbisher not having own collection centre, the e-waste so generated may be channelized to an authorised recycler.
8. The premise for refurbishing should fulfil the following requirements:
 - (i) Water proof roofing and impermeable surfaces
 - (ii) As a general rule a refurbisher of capacity of 1 Ton per day shall require a minimum of 150 square meters' area for refurbishing, temporary storage of e waste generated and space for refurbished EEE
9. If refurbisher opts to sell refurbished EEE then he is required to seek EPR authorisation from CPCB. In no circumstances, the refurbisher shall sell any refurbished EEE without having EPR authorization.

D) Special Conditions

1. The industry shall obtain certificate of registration and proof of installed capacity from District Industries Centre or any other Government agency authorized in this regard within one month and submit compliance immediately thereafter.



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2. The industry shall not involve in-house processing CRT based display equipment, Lighting products incandescent lamps, fluorescent lamps, LED lamps, Lead acid batteries, Printer cartridges, Ferrous metallic waste.
3. The facility shall not procure and process any kind of hazardous waste covered under Hazardous & Other Wastes (Management and Trans-boundary Movement) Rules, 2016.
4. The industry/dismantler shall install weigh-bridge and other appropriate weighing equipment for weighing each delivery received by it and maintain a record in this regard, within one month and immediately submit compliance thereafter.
5. The industry shall ensure that dismantled and segregated plastic from e-waste shall only be given to registered plastic recyclers having registration under Plastic Waste (Management) Rules, 2016.
6. This authorization is for e-waste recycling cum dismantling of E-Waste capacity @ 0.8 TPD only and shall not exceed the capacity without obtaining prior permission from the Board.
7. The industry shall comply with the guidelines issued by Central Pollution Control Board for implementation of E-waste (Management) Rules, 2016.
8. The industry shall obtain certificate of registration and proof of installed capacity from District Industries Centre or any other government agency authorized in this regard within one month and submit compliance immediately thereafter.
9. This authorization of for refurbishing @ 1 Ton/day of electronic items only and the industry shall not exceed the refurbishing capacity without obtaining prior permission from the Board.
10. A refurbisher should have system to manage leakage of coolant/refrigerant gases and compressor oils from used electrical and electronic equipment during refurbishing operations.
11. As per CPCB guidelines, if refurbisher opts to sell refurbished EEE then he is required to seek EPR authorization from CPCB. In no circumstances, the refurbisher shall sell any refurbished EEE without having authorization.
12. The industry shall comply with the guidelines issued by Central Pollution Control Board for implementation of E-waste (Management) Rules, 2016.

Endst. No. 89/0-11

for and on behalf of
C.Pb. Pollution Control Board
Dated 17/5/19

A copy of the above is forwarded to the following for kind information please:

1. The Member Secretary, Punjab Pollution Control Board, Patiala.
2. The Chief Environmental Engineer, Punjab Pollution Control Board, Ludhiana.

Endst. No. 29/12

for and on behalf of
C.Pb. Pollution Control Board
Dated 17/5/19

A copy of the above is forwarded to the Environmental Engineer, Punjab Pollution Control Board, Regional Office-4, Ludhiana for information and necessary action.



for and on behalf of
Pb. Pollution Control Board



PUNJAB POLLUTION CONTROL BOARD

Zonal Office-I, Ludhiana

Website:- www.ppcb.gov.in

Office Dispatch No: 1998

Registered/Speed Post

Date: 11/4/17

Industry Registration ID: 016LDH24068675

Application No: 4308234

To,

Charitable Trust
B - XXI - 14623, G.T. Road, Khanna, Ludhiana,
Khanna, Punjab-141003

Subject: Grant of 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981 for discharge of emissions arising out of premises.

With reference to your application for obtaining 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are hereby, authorized to operate an industrial unit for discharge of the emission(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate.

1. Particulars of Consent to Operate under Air Act, 1981 granted to the industry

Consent to Operate Certificate No.	CTOA/Fresh/LDH2/2017/4308234
Date of issue:	05/04/2017
Date of expiry:	30/09/2022
Certificate Type:	Fresh

2. Particulars of the Industry

Name & Designation of the Applicant	Charitable Trust, (Trust)
Address of Industrial premises	Gulzar educational & charitable trust, B - xxi - 14623, g.t. road, khanna, ludhiana, Jagroan, Ludhiana ii-141003
Capital Investment of the Industry	858.04 lakhs
Category of Industry	Orange
Type of Industry	Other
Scale of the Industry	Small
Office District	Ludhiana ii
Consent Fee Details	Rs. 195000/- R. no. 96/4030 dated 25.5.2016 & Rs 745000/- vide R.No. 73/4432 dated 15.2.2017 under Water Act, 1974 & 195000/- vide R.No. 97/4030 dt 25.5.2016 Rs 745000/- vide R.No. 74/4432 dated 15.2.2017 under Air Act, 1981 & Rs 15000/- R.No. 92/4431 dt 7.2.2017 & Rs 55000/- vide R.No. 75/4432 dt 15.2.2017 as NOC regularization fee Adequate upto 30.9.2022
Raw Materials (Name with Quantity per day)	Educational Institute

"This is computer generated document from OCMMS by PPCB"
Gulzar educational & charitable trust, B - xxi - 14623, g.t. road, khanna, ludhiana, Jagroan, Ludhiana ii, 141003

Page 1



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Products (Name with Quantity per day)	Educational Institute
By-products, if any, (Name with Quantity per day)	Educational Institute
Details of the machinery and process	Educational Institute
Quantity of fuel required (in TPD) and capacity of boilers/ Furnace/Thermo heater etc.	Not Required
Type of Air Pollution Control Devices to be installed	Not Required
Stack height provided with each boiler/thermo heater/Furnace etc.	Not Required
Sources of emissions and type of pollutants	Nil
Standards to be achieved under Air(Prevention & Control of Pollution) Act, 1981	As Prescribed by the Board.

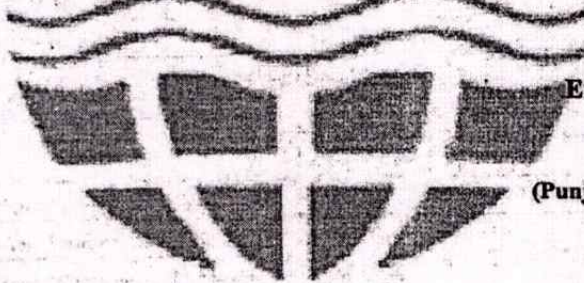
Environmental Engineer
 For & on behalf
 of
(Punjab Pollution Control Board)

Endst. No.:

PUNJAB

Dated:

A copy of the above is forwarded to the following for information and necessary action please:
 The Environmental Engineer, Regional Office-2, Punjab Pollution Control Board, Ludhiana.



Environmental Engineer
 For & on behalf
 of
(Punjab Pollution Control Board)



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 Gulzar educational & charitable trust, B - xx1 - 14623, g.t. road, khanna, ludhiana, Jagroan, Ludhiana II, 141003

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