Salient Features of the E-Waste (Management) Rules, 2016 and its likely implication

e-waste (Management &	E-Waste (Management) Rules, 2016	Reasons /and Likely implications		
Handling) Rules, 2011				
Title				
e-waste (Management &	E-Waste (Management) Rules, 2016			
Handling) Rules, 2011				
Applicability				
Producer, consumer or bulk	expanded to manufacturer, dealer, refurbisher and	to address leakage of e-waste to informal sector		
consumer, collection centre,	Producer Responsibility Organization (PRO)	at all the stages of channelization.		
dismantler and				
recycler				
Only to Electrical and	Extended to components, consumables,	Bulk of e-waste comprises of components,		
Electronic Equipment (EEE) as listed in Schedule I spares and parts of EEE in addition to equipment as listed in Schedule I		consumables, spares and parts of EEE which were not getting addressed in previous rules entailing to the scope of their channelization to informal sector.		
	Compact Fluorescent Lamp (CFL) and other	Taking into account the lack of any regulation for		
	mercury containing lamp brought under the	management of CFL and other mercury		
	purview of rules.	containing lamp, CFL has		
		been included in Schedule I which provide the		
		list of EEE to which this rules is		
		applicable.		
Exemption				

Micro and Small industry	Micro enterprises as defined in the Micro, Small	Exemption continues for micro enterprises;		
sector as defined in Micro	and Medium Enterprises Development Act, 2006	however small enterprises, which have been		
Small and Medium	-	referred as one of the major source of		
Developmental Act, 2006		generation of e-waste, have been included in the		
		rules for responsibility as manufacturer, without		
		burdening them		
		with EPR responsibility as applicable to		
		Producers.		
Collection Mechanism				
Collection Centers can be set	Collection is now exclusively Producer's	The rules provide for setting up of individual		
up by producer or by any	responsibility, which can set up collection centre or	collection centres which were not necessitated as		
person or agency or	point or even can arrange buy back	part of EPR Authorization,		
association for the purpose	mechanism for such collection.	thus giving leeway to Producers for not setting up		
of collecting e-		such collection centres.		
waste. Separate authorization from SPCBs for setting up of such collection centres was necessary.	No separate authorization for such collection will be required, which will be indicated in the EPR Plan of Producers.	Shift from collection centre to collection mechanism approach and removal of need of separate authorization will ensure effective collection simultaneously ensuring flexibility for Producers for implementation. This will check leakage of flow of e-waste to unauthorised players.		
Extended Producer Responsib	oility (EPR)			
The Producers	Single EPR Authorization for Producers is now	Need for separate EPR authorization from each		
are required to obtain	being made CPCB's responsibility to	state lead to significant delays and		
authorization from	ensure pan India implementation.	thus failure in implementation of EPR		
SPCB/PCCs for implementing their	Procedure for seeking the authorization and	There had been significant lack of		
implementing their	Procedure for seeking the authorization and	There had been significant tack of		

Extended Producer	for effective implementation has now been	initiatives from Producers wrt	
Responsibility for effective	elaborated with various kind of flexibilities	implementation of EPR and for capacity	
channelization of E-waste to	provisions	building and awareness initiatives, though	
the registered		mandated in the rules due to lack of	
dismantlers/recyclers		elaborate procedure for the same in the rules	
		which has now been elaborated step- wise.	
Flexibility for ease of implen	nentation of EPR		
No provisions	Option has been given for setting up of PRO,	These are various non- mandatory options for	
	e-waste exchange, e-retailer, Deposit Refund Scheme as additional channel for implementation of EPR by Producers to ensure efficient channelization of e-waste;	ease of implementation of EPR	
Target based approach for co	ollection under EPR		
No such provision	Collection and channelisation of e-waste in	Target based approach for implementation of	
	Extended Producer Responsibility - Authorisation shall be in line with the	EPR has been adopted on the basis of existing international best practices which	
	targets prescribed in Schedule III of the Rules.	indicate higher success rate for implementation	
		of EPR in those countries having target based EPR	
		mechanism.	
	The phase wise Collection Target for e-waste, which can be either in number or Weight shall be	Target based approach (Minimum) is being used	
	30% of the quantity of waste generation as	in many countries like Japan	
	indicated in EPR Plan during first two year of	(redcycling rate 50% to 60%), South Korea	
	implementation of rules followed by 40% during	(Recyxcling rate 55% to 70%), UK (Recycling	
	third and fourth	and recocvery rate 50% to 80%)	

	years, 50% during fifth and sixth years and	
	70% during seventh year onwards.	As it may be noted in all these countries
		target is with reference to
		successful
		recycling rate, whereas in India we have just began with adoption of successful
		collection rate to begin with. Further, the
		minimum target has been 45-55%
		internationally. Whereas, in India in order
		to gain experience the target has been kept
		as collection rate of 30% of the total e-
		waste generated as per the EPR
		plan submitted by Producer themselves.
		In order to ascertain the annual quantity of
		waste generated, category wise average life
		and the weight shall be used and this will
		be applied tom sales figure of the producers
		to arrive at the quantity of
		e-waste
		generation. All the details will be prescribed in the CPCB guidelines.
		in the of ob guidelines.
Simplification of Permissions		
Authorization for collection	No separate authorization for	Simplification of various permissions to avoid
centre	collection centre which shall be part of EPR now	delays.
Dismantler and Recyclers to	Registration/ authorization for dismantling and	
obtain Authorization and	recycling through one system i.e. Authorization	
Registration, separately.	instead of both registration and authorisation.	
Separate EPR	Pan India EPR authorization by CPCB	
separate EFR	I all filula El IV autilui izatiuli by GFGD	

authorization by all the		
states		
Economic Instrument for imp	lementation of the rules	
No specific citation	Deposit Refund Scheme has been introduced as an additional economic instrument wherein the producer charges an additional amount as a deposit at the time of sale of the electrical and electronic equipment and returns it to the consumer along with interest when the end-of-life electrical and electronic equipment is returned;	An optional financial for mechanism effective implementation of EPR
E-waste exchange		
No specific citation	The e-waste exchange as an option has been provided in the rules.	The e-waste exchange as an option has been provided in the rules as an independent market instrument offering assistance or independent electronic systems offering services for sale and purchase of e-waste generated from end-of- life electrical and electronic equipment between agencies or organizations authorised under these rules
Responsibilities of Manufactu	ırer	
No provision	To collect e-waste generated during the manufacture of any electrical and electronic equipment and channelise it for recycling or disposal and seek authorization from SPCB;	To check the leakage to informal sector.

Responsibilities of dealers			
No provision	in the case the dealer has been given the responsibility of collection on behalf of the producer, the dealer shall collect the e-waste by providing the consumer a box Dealer or retailer or e-retailer shall refund the amount as per take back system or Deposit Refund Scheme of the producer to the depositor of e-waste	This will provide flexibility to producer for channelization and ensure ease of implementation by consumers for depositing the e-waste at end of life.	
Responsibilities of the refurb	isher		
No provision collect e-waste generated during the process of refurbishing and channelise the waste to authorised dismantler or recycler through its collection centre and seek one time authorization from SPCB;		To check the leakage to informal sector.	
Obligations for Bulk Consume	er		
'bulk consumer' means bulk users of electrical and electronic equipment such as Central Government or State Government Departments, public sector undertakings,	Bulk Consumer is being redefined by adding 'and health care facilities which have turnover of more than one crore or have more than twenty employees' They need to file annual returns.	To bring clarity in respect of definition and to put obligations on bulk consumers who are major generators and whose compliance was non satisfactory due to lack of any concrete obligation on reporting.	

banks, educational		
institutions,		
multinational		
organisations,		
international agencies,		
partnership and public or		
private companies that		
are registered under the		
Factories Act, 1948 (63 of		
1948) and the Companies		
Act, 2013 (18 of 2013)		
No provision on annual		
return		
Responsibility of State Govern	nment	
No provision	The roles of the State Government has been	Involvement of state government for
•	also introduced in the Rules in order to ensure safety, health and skill development of the workers involved in the dismantling and recycling operations. These responsibilities are as given below:	effective implantation of the rules and simultaneously ensure welfare, safety and health of the workers involved in this e- waste management sector.
	(i) Department of Industry in State or any other government agency authorised in this regard by the State Government is to ensure earmarking or allocation of industrial space or shed for e-waste dismantling and recycling in the existing and upcoming industrial	

		(ii)	park, estate and industrial clusters; Department of Labour in the State or any other government agency authorised in this regard by the State Government need to ensure recognition and registration of workers involved in dismantling and recycling; assist formation of groups of such workers to	
		(iii)	undertake industrial skill development activities for the workers involved in dismantling and recycling; and undertake annual monitoring and to ensure safety & health of workers involved in dismantling and recycling; State Government to prepare integrated plan for effective implementation of these provisions, and to submit annual report to Ministry of Environment, Forest and Climate Change.	
Reduction of Hazar	dous Subs	tances (RoHS) during manufacturing stage	
Every producer	of	The pr	ocedure for implementation of ROHS has	For effective implementation
electrical	and	been el	laborated and made explicit	
electronic				
equipment and	their			

components or consumables	Provision on Reduction of	
or parts or	Hazardous Substances (RoHS) and related	
spares listed in Schedule I	Schedule II	In line with existing international best
shall ensure that, new		practices.
· · · · · · · · · · · · · · · · · · ·	has been revised in line with existing EU regulatory framework which forms the basis	
Electrical and Electronic		
Equipment and their	of the provision.	
components or	In case the products not comply with the RoHS	
consumables or parts or	provision, provision has been introduced to	
spares do not contain Lead,	withdraw or recall the product from market and	Stringent compliance mechanism
Mercury, Cadmium,	take corrective measures to bring the product into	
Hexavalent Chromium,	compliance;	
polybrominated biphenyls		
and polybrominated		
diphenyl ethers beyond a		
maximum concentration		
value of 0.1% by weight in		
homogenous materials		
for lead, mercury,		
hexavalent chromium,		
polybrominated biphenyls		
and polybrominated		
diphenyl ethers and of 0.01%		
by weight in		
homogenous materials for		
cadmium.		
Transportation of e-		
waste		
No provision	The transportation of e-waste shall	To prevent leakage of e-waste to informal sector
	be carried out as per the manifest system	during transportation
	whereby the transporter shall be required to	

	carry a document (three copies) prepared by the sender, giving the details as per Form-6:	
Liability provision		
No provision Responsibility of Urban Lo	Liability for damages caused to the environment or third party due to improper management of e-waste including provision for levying financial penalty for violation of provisions of the Rules has also been introduced.	For effective implementation
No specific citation	Urban Local Bodies (Municipal Committee/Council/Corporation) has been assign the duty to collect and channelized the orphan products to authorized dismantler or recycler.	To bring clarity in the rules for effective implementation and prevent leakage to informal sector

UNIT-4

Treatment, Storage and Disposal Facilities (TSDFs)

- The Government has taken a number of initiatives to address issues related to disposal of wastes.
- It encourages setting up of integrated Treatment, Storage and Disposal Facility (TSDFs) for hazardous waste management on Public Private Partnership (PPP) mode in clusters of hazardous waste generating industries.
- So far 28 TSDFs have been set up. The Ministry of Urban Development is implementing the Jawaharlal Nehru National Urban Renewal Mission (JNNURM) for providing assistance to the State Governments/ Urban Local Bodies for various projects including solid waste management.

- On the basis of proposals received from the States, the Centre has provided financial assistance to the State Pollution Control Boards for setting up of integrated TSDFs
- The financial assistance disbursed from 2007 to 2010, State-wise and year-wise is as follows

Year	State	Amount (in lakhs)
2007-2008	Tamil Nadu	Rs. 80.00
2007-2008	Andhra Pradesh	Rs. 80.00
2007-2008	Maharashtra	Rs. 96.64
2008-2009	Maharashtra	Rs. 160.00
2009-2010	Maharashtra	Rs. 2.40 crore
2009-2010	Uttar Pradesh	Rs. 80.00
2009-2010	Kerala	Rs. 80.00

- To offset any possibility of the amount allocated for setting up of the TSDFs getting diverted for other activities or projects, a Memorandum of Understanding (MoU) is signed between the Ministry of Environment and Forests, State Pollution Control Board and the entrepreneur before release of financial assistance for setting up of TSDF.
- One of the conditions of the MoU is to constitute a committee to monitor progress of the facility.
- Further release of financial assistance is made only on submission of audited Utilization Certificate and physical progress report by the respective State Pollution Control Board.

- The CPCB's Guidelines for Environmentally Sound management of E-waste, 2008 in its 'guidelines for establishment of integrated e-waste recycling & treatment facility' state that plastic, which cannot be recycled and is hazardous in nature, is recommended to be landfilled in nearby Treatment, Storage and Disposal Facility (TSDF).
- In case lead recovery is low, they can be temporarily stored at e-waste dismantling facility and later disposed in TSDF.