Phase (Planning Permission)	Parts	Project Phase	Activities/Tasks	Construction Sub Phase/ Stage		Contractor	Section Reference
Prior to Commencement of Development		Pre Commencement	Discharge of Pre- Commencement Conditions and delivery of previous commitments.		ver suverys, basesline surface water & groundwater g, noise, dust & vibration		
Construction of Unit 1 Development at Coolnabacky	Part 1	Pre Civil Construction	Borehole Decommissioning & Installation.	Modification and installation of boreholes to accommod as require		IE Consulting	Section
			mistanation.	EARTHMOVING PLAN	CONSTRUCTION		
		Main Civil Construction Phase 1	Enabling works & site Establishment, Drainage & Surface Water Management, Main Construction of 110 kV Building	Stage 1: Site Preparation - Mobilise to site - Fencing & Security of Site - Ecological Buffer Zone - Overhead Cable Avoidance - Fencing & Protection of Boreholes Stage 2: Site Establishment - Site Acccess Route & hardstanding - Site Compound and Laydown Area - Permanent Berm Drainage (land drain & catchpits) Stage 3: Excavate Ponds and associated Drainage - Excavate & Install Drainage connections between berm and ponds - Move spoil to berm - Excavate Ponds to formation level - remove spoil to berm area Stage 4: Construct Drainage Ponds & Associated Infrastucture - Excavations for remaining drainage works - Install hydro brake, manhole at pond outlets, stone apron at stream - Install impermeable HDPE liner, Geotextile fleece & stone Stage 5: 110 kV Building Footprint Excavation Works - Strip topsoil and install stone on haul route		Kilwex Construction	Section 4.
				- Strip topsoil and install stone on haul route - All excavated spoil to be moved to berm - Excavate to formation 110 kV building footprint and install stone - Dewatering Procedure to be applied Stage 6: Remainder of Civils & Excavation Works - Excavate and install drainage - Excavate trenches and install cable ducting - Excavate & Install tanks, oil separator etc - Dewatering Procedure to be applied	110 kV Building Construction: - Pour Foundations - Structural Steel Frame - Composite Cladding - First Floor - Internal Finishes, Building Services		
		kV Buildin Transformer	Construction of 400 kV Building and Transformer bunds within site compound.	400kV Excavations - Excavate Building Footprint (Refer to Earthmoving Plan Stage 6) - 400 kV Cable Ducts Excavation - Excavate 400 kV Transformer Bund Footprint (Refer to Earthmoving Plan (Stage 6) - Dewatering Procedure to be applied	400kV Foundation & Ducting - Pour Foundations - 400 kV Cable Ducts Installation - Pour Transformer Bund Foundations 400 kV Building Construction: - Structural Steel Frame - Composite Cladding - First Floor - Internal Finishes, Building Services 400 kV Transformer Bund: - Bund Walls - Bund Testing - Blast Walls installation - Blockwork Sumps & Covers, Drainage stone	Kilwex Construction	Section 4.
					Landscaping - Berm Planting with native Irish trees - Wetland Planting in ponds - Revegetation planting - Landscape in accordance with permitted design		
	Part 2	Electrical Installation Phase 1	Installation of 110 kV Switchgear in completed 110 kV Building	(indicative) Stage 1: Install Switchgear & Testing Stage 2: Commission Switchgear, Underground Cable installation & Terminations Stage 3: Energise 110 kV Substation		To be Awarded	
		Electrical Installation Phase 2	Installation of 400 kV Switchgear in completed 400 kV Building.	(indicative) Stage 1: Install Switchgear & Testing Stage 2: Commission Switchgear, Underground Cable installation & terminations Stage 3: Energise 400 kV Substation		To be Awarded	
		Transformer Delivery & Installation	Delivery and installation of 400 kV Transformers	(indicative) Stage 1:Delivery & Offload Stage 2: Assemble & Fill Stage 3: Commission Stage 4: Energisation of 400 kV Transformer		To be Awarded	
Operation of Unit 1 Coolnabacky Substation		Units on Laois Kilkenny Project.	Overhead Line Diversions from Athy Portlaoise 110 kV OHL (Unit 8)			To be Av	varded
		(Construction phases of Units 2 & 8 to overlap with unit 1)	Overhead Line Diversions from Dunstown Moneypoint 400 kV (Unit 2)			To be Av	varded
			Substation O	peration & Maintenance		ESB Networks	N/A

