Category Level 1:Electrical - UNSPSC Code:

Category Level 2 : Electrical equipment and components and supplies - UNSPSC Code:

Category Level 3 : Power conditioning Equipments - UNSPSC Code:

Category Level 4: Distribution Transformer 33 kV-Outdoor - UNSPSC Code:

S.No.	Parameters	Field type	Field Category	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10	Value 11	Value 12
1	**GROUP: GENERIC**														
2	3-Phase Distribution Transformers 33 kV/433-250V (Outdoor Type) conforming to	Enumerable	Mandatory	IS 1180 (Part-I): 2014											
3	ISI Marked	Enumerable	Mandatory	Yes											
4	ISI Marked Licence Number - Must declare	Text	Mandatory												
5	Energy efficiency level	Enumerable	Golden, Filter, Mandatory	2	3	4	5								
6	Type	Enumerable	Mandatory	Step Down , Oil immersed, Outdoor, Non											
7	No. of phase	Enumerable	Mandatory	3											
8	Rated voltage (HV)	Enumerable	Golden,Filter, Mandatory	33 kV											
9	Rated Voltage (LV)	Enumerable	Golden,Filter, Mandatory	433-250 V											
10	Frequency	Enumerable	Mandatory	50 Hz +/-5%											
11	Distribution transformer rating (in KVA)	Enumerable	Golden,Filter, Mandatory	100	160	200	315	400	500	630	1000	1250	1600	2000	2500
12	Connection HV	Enumerable	Mandatory	Delta											
13	Connection LV	Enumerable	Mandatory	Star (Neutral brought out)											
14	Vector group	Enumerable	Mandatory	Dyn-11											

15	Type of cooling	Enumerable	Mandatory	ONAN											
16	**GROUP: CONSTRUCTION**														
17	Core mateial	Enumerable	Golden,Filter, Mandatory	CRGO	Amorphous Core annealed steel lamination										
18	The core shall be	Enumerable	Golden,Filter, Mandatory	Stack type	Wound type										
19	Winding material	Enumerable	Golden,Filter, Mandatory	Copper	Aluminium										
20	The tapping shall be as per provisions of IS: 1180 Part-I (2014).	Enumerable	Mandatory	Yes											
21	The insulating oil shall comply with the requirements of IS 335	Enumerable	Mandatory	Yes											
22	Earthing system	Enumerable	Mandatory	effectively earthed system											
23	Standard fittings shall be provided with each distribution transfomer as per IS:1180 (Part 1) latest	Enumerable	Mandatory	Yes											
24	Tank cover type	Enumerable	Golden,Filter, Mandatory	Bolted	Welded										
25	Tranformer tank construction	Enumerable	Golden, Filter, Mandatory	Plain tank with Conservator	Corrugated tank										
26	The permissible temperature rise shall be as per IS: 1180 (Part-I):2014.	Enumerable	Mandatory	Yes											
27	9 kV, 5 kA metal oxide lightning arrestors conforming to IS 3070 Part-III	Enumerable	Golden, Filter, Mandatory	9KV, 5KA one No. per phase											
28	Transformer shall be suitable for service with fluctuations in supply voltage upto plus 12.5% to minus 12.5%.	Enumerable	Mandatory	Yes											
29	**Group: SERVICE CONDITION**														
30	Maximum ambient air temperature (in deg. C)	Enumerable	Mandatory	50											

31	Minimum ambient air temperature (in deg. C)	Enumerable	Mandatory	-5											
32	Maximum average daily ambient air temperature (n deg. C)	Enumerable	Mandatory	40											
33	Maximum yearly weighted average ambient temperature (in deg. C)	Enumerable	Mandatory	32											
34	The altitude	Enumerable	Golden, Filter, Mandatory	<1000 m	<5000 m										
35	**GROUP: WARRANTY/CERTIFICATION**														
36	On site Warranty (in Years)	Enumerable	Golden, Filter, Mandatory	2	3	4	5								
37	Installation and commissioning	Enumerable	Golden, Filter, Mandatory	Yes	No										
38	The product shall comply with all relevant Gazette notifications of Govt., of India with all latest amendments up to date, as applicable	Enumerable	Mandatory	Yes											
39	Availability of type test reports from any Central Govt. laboratory / ILAC approved laboratory / NABL aproved laboratory. Type test reports shall be furnished as and when requested to do so by Purchaser,Indentor,Consignee etc., Type test report shall be complete alongwith authenticated drawings from the test lab	Enumerable	Mandatory	Yes											
40	Test Report Number	Text	Mandatory												
41	Test Report Date	Text	Mandatory												
42	Name of testing lab	Text	Mandatory												
43	Address of testing lab	Text	Mandatory												
44	All the test reports and certificates shall be furnish to purchase authority on demand	Enumerable	Mandatory	Yes											