

### Contract

Contract No: GEMC-511687795601719

Generated Date:12-Mar-2021

Bid/RA/PR No:<u>GEM/2021/R/33355</u>

**Organisation Details** 

Type: Central PSU
Ministry: Ministry of Coal

Department: Materials Management
Organisation Name: Bharat Coking Coal Limited

Office Zone: Bccl Dhanbad

**Buyer Details** 

Designation: Deputy Manager MM

Contact No.: -

Email ID: mrunal.mehta@nic.in
GSTIN: 20AAACB7934MFZB

MM Department, level 3, Commercial Building, Koyla

Address: Bhawan, Koyla Nagar,

DHANBAD, JHARKHAND-826005, India

**Financial Approval Detail** 

IFD Concurrence: Yes

Designation of Administrative Approval: DT(P&P)
Designation of Financial Approval: GM(MM)

**Paying Authority Details** 

Payment Mode: GPA - Challan

Designation: HOD Purchase Finance
Email ID: pao5.bccl.jh@gembuyer.in

GSTIN: N

MM Department, level 3, Commercial Building, Koyla

Address: Bhawan, Koyla Nagar,

DHANBAD, JHARKHAND-826005, India

**Seller Details** 

GeM Seller ID: A18A180000100175

Company Name: POWERLINK OIL REFINERY LIMITED

Contact No.: 09811274820

Email ID: skjain@powerlinkoil.com

Address: 211-212 AGGARWAL TOWERH-6 NETAJI SUBHASH PLACE, DISTT CENTRE PITAMPURA,

DELHI, DELHI-110034, -

MSME verified: Yes
MSE Social Category: General
MSE Gender: Male

GSTIN: 06AAACP0598H1ZE , 06AAACP0598H1ZE

\*GST / Tax invoice to be raised in the name of - Consignee

# **Product Details**

#	Item Description	Category Name	Model	HSN Code	Ordered Quantity	Unit	Price (Inclusive of all Duties and Taxes in INR)
1	Product Name: Transformer Oil as per IS: 335 Brand: TRANSPOWER Brand Type: Registered Brand Catalogue Status: Catalogue not verified by OEM Selling As: OEM verified Reseller	Transformer Oil as per IS: 335	TRANSPOWER	27101980	18,000	liter	1,494,900
Total Order Value (in INR)						1,494,900	

# **Consignee Detail**

S.No	Consignee	Item	Lot No.	Quantity	Delivery Start After	Delivery To Be Completed By
1	Designation: - Email ID: con1.bccl.jh@gembuyer.in Contact: 62876-95727- GSTIN: 20AAACB7934MFZB Address: Depot Officer, Central Store, Ekra, BCCL, Post Office-BANSJORA, Dhanbad, Jharkhand-828101., DHANBAD, JHARKHAND-828101, India	Transformer Oil as per IS: 335	-	18,000	12-Mar-2021	11-Apr-2021

BIS Licence Number, if ISI Marked-else write NA  Juni The be c transformer  Appearance  Appearance  Density Max (gm/cm2 at 29 point 50°C)  Kinematic viscosity (Cst) at 27°C,Max  Interfacial tension at 27°C Newtons/M,Min  0.04  Flash point Pansky/martin(Closed), Min(°C)  Pour point,Max(°C)  Neutralization value, Total acidity mg, Max.mg KOH/gm  Neutralization value, Inorganic acidity / Alkalinity  Corrosive Sulphur (In terms of classification of copper strips)  Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV)  Electric strength (Break down voltage), After treatment, Min (RMS) (in KV)  Dielectric Dissipation vector (Ten delta) at 90°C, Max  Specific resistance (Resistivity) at 90°C, Min., (in Ohm-cm)  Specific resistance (Resistivity) at 27°C, Min., (in Ohm-cm)  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability : Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stabil	Specification	Sub-Spec	Value
The vendor as to Provide involve and test report from the manufacture, if required by the Buyer or no minated  Conforming to IS: 335 (Latest)  Whether IS Marked  BIS Licence Number, if ISI Marked else write NA  CMI Junc  Appearance  Appearance  Appearance  Density Max (gn/cmz at 29 point 50°C)  Chemistry Max (gn/cmz at 29	•	testing of transformer oil ii) Flow diagram clearly indicating facilities available with manufacture for manufacturing of transformer oil along with capacity iii) (Self attested / Digitally signed) & Notary certified copy (ies) of test report certificate from CPRI or Govt test house or National Test house or ERDA as per relevant IS iv) (Self attested / Digitally signed) & Notary certified copy of valid BIS	Yes
Confirming to IS: 335 (Latest)  Whether IS Marked  BIS Licence Number, if ISI Marked,else write NA  CM Juni  Appearance  Appearance  Density Max (gm/cm2 at 29 point 50°C)  Kinematic viscosity (Cst) at 27°C, Max  Interfacial tension at 27°C Newtons/M.Min  Flash point Pansky/marten(Closed), Mint(°C)  Pour point,Max(°C)  Pour point,Max(°C)  Neutralization value, Total acidity mg, Max.mg KOH/gm  Neutralization value, Total acidity mg, Max.mg KOH/gm  Neutralization value, Total acidity / Alkalinity  Consiste Sulphine (In terms of classification of copper strips)  Electric strength (Break down voltage), After treatment, Min (RMS) (in KV)  Electric strength (Break down voltage), After treatment, Min (RMS) (in KV)  Delectric strength (Break down voltage), After treatment, Min (RMS) (in KV)  Specific resistance (Resistivity) at 20°C, Minx (in Ohm-cm)  Specific resistance (Resistivity) at 20°C, Minx (in Ohm-cm)  Oxidation stability: Neutralization value after oxidation for 184 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total studge after oxidation for 184 hrs at 100°C, Max, % by weight  The Veter content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Minx (bin Ohm-cm)  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Minx (bin Ohm-cm)  'Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Minx (bin Ohm-cm)  'Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Minx (bin Ohm-cm)  'Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0°C)		Availability of Test Report from Central Govt/ State Govt/NABL/ILAC accredited lab(hint: Must be declared	Yes
Certification  BIS Licence Number; if ISI Marked,else write NA  CM Jun.  Appearance  Appearance  Density Max (gm/cm2 at 29 point 50°C)  Density Max (gm/cm2 at 29 point 50°C)  Nicematic viscosity (Cst) at 27°C, Max  Interfacial tension at 27°C Newtons/M.Min  Flash point Pansky/marten(Closed), Min(°C)  Pour point,Max(°C)  Neutralization value, Total acidity mg, Max,mg KOH/gm  Neutralization value, Inorganic acidity / Alkalinity  Canosive Sulphur (In terms of classification of copper strips)  Electric strength (Break down votage), New untreated of (Min (RMS) (in KV)  Electric strength (Break down votage), After treatment, Min (RMS) (in KV)  Electric strength (Break down votage), After treatment, Min (RMS) (in KV)  Specific resistance (Resistivity) at 27°C, Min.( in Ohm-cm )  Specific resistance (Resistivity) at 27°C, Min.( in Ohm-cm )  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max, % by weight  Presence of oxidation inhibitor  Water content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min. (ohm-cm )  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min. (ohm-cm )  'Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min. (ohm-cm )  'Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min. (ohm-cm )  'Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dieloctric Dissipation vector (Tran )  'Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dieloctric Dissipation vector (Tran )		The vendor as to Provide involve and test report from the manufacture, if required by the Buyer or no minated	Yes
BIS Licence Number, if ISI Marked,else write NA  Appearance  Density Max (gm/cm2 at 29 point 50°C)  Kinematic viscosity (Cst) at 27°C,Max  Density Max (gm/cm2 at 29 point 50°C)  Kinematic viscosity (Cst) at 27°C,Max  Interfacial tension at 27°C Newtons/M,Min  Plash point Pansky/marten(Closed), Min(°C)  Pour point,Max(°C)  Neutralization value, Total acidity mg, Max.mg KOH/gm  Neutralization value, Inorganic acidity / Alkalinity  Corrosive Sulphur (In terms of classification of copper strips)  Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV)  Electric strength (Break down voltage), New transment, Min (RMS) (in KV)  Electric strength (Break down voltage), New transment, Min (RMS) (in KV)  Specific resistance (Resistivity) at 29°C, Max  Specific resistance (Resistivity) at 29°C, Min, (in Ohm-cm)  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm  Oxidation stability: Total studge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm  Oxidation stability: Total studge after oxidation for 164 hrs at 100°C, Max,s, by weight  Presence of oxidation inhibitor  Water content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min, (in Ohm-cm)  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min, (in Ohm-cm)  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min, (in Ohm-cm)  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min, (in Ohm-cm)  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min, Ohm-cm	Certification	Conforming to IS: 335 ( Latest )	Yes
BIS Licence Number, if ISI Marked else write NA  Appearance  Appearance  Density Max (gm/cm2 at 29 point 50°C)  Kinematic viscosity (Cst) at 27°C.Max  Interfacial tension at 27°C Newtons/M_Min  Flash point Pansky/marten(Closed), Min(°C)  Pour point_Max(°C)  Noturbitization value, Total addity mg, Max,mg KOH/gm  Neutralization value, Inorganic addity / Alkalimy  Corrosive Sulphur (In terms of classification of copper attips)  Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV)  Billectric proper in the companies of transformers o		Whether IS Marked	Yes
Appearance  Density Max (gm/cm2 at 29 point 50°C)  Kinematic viscosity (Cst) at 27°C, Max  Interfacial tension at 27°C Newtons/M.Min  Plash point Pansky/marten(Closed), Min(°C)  Pour point,Max(°C)  Neutralization value, Total acidity mg, Max.mg KOH/gm  Neutralization value, Total acidity mg, Max.mg KOH/gm  Neutralization value, Inorganic acidity / Alkalinity  Corrosive Sulphur (In terms of classification of copper strips)  Electric strength (Break down voltage), After treatment, Min (RMS) (in KV)  Blectric strength (Break down voltage), After treatment, Min (RMS) (in KV)  Dielectric Dissipation vector (Ten delta) at 90°C, Max  Specific resistance (Resistivity) at 90°C, Min. (in Ohm-cm)  Specific resistance (Resistivity) at 27°C, Min. (in Ohm-cm)  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max.mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs a		BIS Licence Number, if ISI Marked,else write NA	CM/L 90892 Jun2022
Kinematic viscosity (Cst) at 27°C,Max 27  Interfacial tension at 27°C Newtons/M,Min 0.04  Flash point Pansky/marten(Closed), Min(°C) 1.40  Pour point,Max(°C) (-)6  Neutralization value, Total acidity mg, Max,mg KOH/gm 0.03  Neutralization value, Inorganic acidity / Alkalinity Nil  Corrosive Sulphur (In terms of classification of copper strips) Non  Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV) 30  Electric birsipth (Break down voltage), After treatment, Min (RMS) (in KV) 60  Characteristics of transformer oil Specific resistance (Resistivity) at 90°C, Max 0.00  Specific resistance (Resistivity) at 90°C, Min. (in Ohm-cm) 35x  Specific resistance (Resistivity) at 27°C, Min. (in Ohm-cm) 1500  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg koH/gm 0.4  Presence of oxidation inhibitor 164  Water content (PPM), Max Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min.Ohm-cm 2.5x  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min.Ohm-cm 10.2x  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min.Ohm-cm 10.2x  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min.Ohm-cm 10.2x		Appearance	"The oil shall be clear transparent free from suspended matter or sediments "
Interfacial tension at 27°C Newtons/M.Min 0.04 Flash point Pansky/marten(Closed), Min(°C) 140 Pour point,Max(°C) (-)6 Neutralization value, Total acidity mg, Max,mg KOH/gm 0.03 Neutralization value, Inorganic acidity / Alkalinity Nil Corrosive Sulphur (In terms of classification of copper strips) Non Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV) 30 Electric strength (Break down voltage), After treatment, Min (RMS) (in KV) 60 Dielectric Dissipation vector (Ten delta) at 90°C, Max Specific resistance (Resistivity) at 90°C, Min, (in Ohm-cm) 35xt Specific resistance (Resistivity) at 27°C, Min, (in Ohm-cm) 1500 Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4 Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4 Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total slud		Density Max (gm/cm2 at 29 point 50°C)	0.89
Flash point Pansky/marten(Closed), Min(°C) 140 Pour point,Max(°C) (-)6 Neutralization value, Total acidity mg, Max,mg KOH/gm 0.03 Neutralization value, Inorganic acidity / Alkalinity Nil Corrosive Sulphur (In terms of classification of copper strips) Non Electric strength (Break down voltage), New untreated oil.Min (RMS) (in KV) 30 Electric strength (Break down voltage), After treatment, Min (RMS) (in KV) 60 Dielectric Dissipation vector (Ten delta) at 90°C, Max Specific resistance (Resistivity) at 90°C, Min., (in Ohm-cm) 35x1 Specific resistance (Resistivity) at 27°C, Min., (in Ohm-cm) 1500 Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4 Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight 0.1  The Presence of oxidation inhibitor 50 Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min.,Ohm-cm 2.5x Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min.,Ohm-cm 3.02x  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min.,Ohm-cm 3.02x  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min.,Ohm-cm 3.02x		Kinematic viscosity (Cst) at 27°C,Max	27
Pour point,Max(°C) (-)6  Neutralization value, Total acidity mg, Max,mg KOH/gm 0.03  Neutralization value, Inorganic acidity / Alkalinity Nil  Corrosive Sulphur (In terms of classification of copper strips) Non  Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV) 30  Electric strength (Break down voltage), After treatment, Min (RMS) (in KV) 60  Characteristics of transformer oil  Specific resistance (Resistivity) at 90°C, Max 0.00  Specific resistance (Resistivity) at 90°C, Min,( in Ohm-cm ) 35x1  Specific resistance (Resistivity) at 27°C, Min,( in Ohm-cm ) 1500  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight 0.1  The Presence of oxidation inhibitor 30  Water content (PPM), Max 50  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm 0.2x  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm 0.2x  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm 0.2x		Interfacial tension at 27°C Newtons/M,Min	0.04
Neutralization value, Total acidity mg, Max,mg KOH/gm 0.03  Neutralization value, Inorganic acidity / Alkalinity Nil  Corrosive Sulphur (In terms of classification of copper strips) Non  Electric strength (Break down voltage), New untreated oil.Min (RMS) (in KV) 30  Electric strength (Break down voltage), After treatment, Min (RMS) (in KV) 60  Characteristics of transformer oil Specific resistance (Resistivity) at 90°C, Min., (in Ohm-cm) 35xt  Specific resistance (Resistivity) at 27°C, Min., (in Ohm-cm) 1500  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm 0.4  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight 0.1  Presence of oxidation inhibitor 164  Water content (PPM), Max 50  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm 0.2x  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm 10.2x  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0.2x)		Flash point Pansky/marten(Closed), Min(°C)	140
Neutralization value, Inorganic acidity / Alkalinity  Corrosive Sulphur (In terms of classification of copper strips)  Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV)  Electric strength (Break down voltage), After treatment, Min (RMS) (in KV)  Dielectric Dissipation vector (Ten delta) at 90°C, Max  Specific resistance (Resistivity) at 90°C, Min,( in Ohm-cm)  Specific resistance (Resistivity) at 27°C, Min,( in Ohm-cm)  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight  Presence of oxidation inhibitor  Water content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0.22)		Pour point,Max(°C)	(-)6
Corrosive Sulphur (In terms of classification of copper strips)  Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV)  Electric strength (Break down voltage), After treatment, Min (RMS) (in KV)  Dielectric Dissipation vector (Ten delta) at 90°C, Max  Specific resistance (Resistivity) at 90°C, Min.( in Ohm-cm )  Specific resistance (Resistivity) at 27°C, Min.( in Ohm-cm )  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight  Presence of oxidation inhibitor  The not or analysis of the content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min.,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min.,Ohm-cm  *Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min.,Ohm-cm  *Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0.2 2)		Neutralization value, Total acidity mg, Max,mg KOH/gm	0.03
Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV)  Electric strength (Break down voltage), After treatment, Min (RMS) (in KV)  Dielectric Dissipation vector (Ten delta) at 90°C, Max  Specific resistance (Resistivity) at 90°C, Min,( in Ohm-cm )  Specific resistance (Resistivity) at 27°C, Min,( in Ohm-cm )  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max, mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max, % by weight  Presence of oxidation inhibitor  The oxidation stability: Water content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0.2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Neutralization value, Inorganic acidity / Alkalinity	Nil
Electric strength (Break down voltage), After treatment, Min (RMS) (in KV)  Dielectric Dissipation vector (Ten delta) at 90°C ,Max  Specific resistance (Resistivity) at 90°C ,Min.( in Ohm-cm )  Specific resistance (Resistivity) at 27°C ,Min.( in Ohm-cm )  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C ,Max,mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C ,Max,% by weight  Presence of oxidation inhibitor  The not of antic addi  Water content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C ,Min.,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C ,Min.,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C ,Min.,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0.2		Corrosive Sulphur (In terms of classification of copper strips)	Non-corrosi
Characteristics of transformer oil  Dielectric Dissipation vector (Ten delta) at 90°C ,Max  Specific resistance (Resistivity) at 90°C ,Min,( in Ohm-cm )  Specific resistance (Resistivity) at 27°C, Min,( in Ohm-cm )  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight  Presence of oxidation inhibitor  Water content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0.22)  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0.22)		Electric strength (Break down voltage), New untreated oil,Min (RMS) (in KV)	30
Dielectric Dissipation vector (1en delta) at 90°C, Min., (in Ohm-cm.)  Specific resistance (Resistivity) at 27°C, Min., (in Ohm-cm.)  Specific resistance (Resistivity) at 27°C, Min., (in Ohm-cm.)  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm.  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight.  Presence of oxidation inhibitor.  Water content (PPM), Max.  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm.  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm.  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm."		Electric strength (Break down voltage), After treatment, Min (RMS) (in KV)	60
Specific resistance (Resistivity) at 90°C, Min,( in Ohm-cm )  Specific resistance (Resistivity) at 27°C, Min,( in Ohm-cm )  Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight  Presence of oxidation inhibitor  Water content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0.2	Characteristics of transformer oil	Dielectric Dissipation vector (Ten delta) at 90°C ,Max	0.002
Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight  Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight  The not or antic addi  Water content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0.2		Specific resistance (Resistivity) at 90°C, Min,( in Ohm-cm )	35x10^12
Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight  O.1  The not of antic addition inhibitor  Water content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten 0.2)		Specific resistance (Resistivity) at 27°C, Min,( in Ohm-cm )	1500x10^12
Presence of oxidation inhibitor  The not of antic addi  Water content (PPM), Max  50  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten		Oxidation stability: Neutralization value after oxidation for 164 hrs at 100°C, Max,mg KOH/gm	0.4
Presence of oxidation inhibitor  Not of antic addi  Water content (PPM), Max  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten		Oxidation stability: Total sludge after oxidation for 164 hrs at 100°C, Max,% by weight	0.1
Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 27°C, Min,Ohm-cm  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten		Presence of oxidation inhibitor	The oil shall not contain antioxidant additives
2.5x  Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Specific resistance (Resistivity) at 90°C, Min ,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten		Water content (PPM), Max	50
90°C, Min ,Ohm-cm  "Ageing characteristics after accelerated ageing (open breaker method with copper catalyst: Dielectric Dissipation vector (Ten			2.5x10^12
1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0.2x10^12
			0.2
"Ageing characteristics after accelerated ageing (open breaker method with copper catalyst : Total acidity, Max ",mg KOH/gm 0.05		"Ageing characteristics after accelerated ageing (open breaker method with copper catalyst : Total acidity, Max ",mg KOH/gm	0.05

	weight	0.05
	The Transformer oil is required to be supplied in brand new steel barrel ISI marked and with suitable coating from inside and outside as per clause 6-1 of IS 335 : 1993 with latest amendment, if any	Yes
Packing ,	"Oil may also be delivered in a suitable type of high density polyethylene ( HDPE ) barrel subject to agreement between the purchaser and the manufacturer "	Yes
Marking and Labelling	Oil may also be delivered in road or rail tank wagons specially cleaned and reserved for this purpose and shall be suitably sealed so as to avoid ingress of moisture	Yes
	Marking should be as per IS 335 :1993	Yes
	The container may also be marked with the IS1 Certification Mark	Yes

# Buyer Defined Additional Specification for Transformer Oil as per IS: 335

Specification	Value
Conforming to IS 335(with latest amendments) and ISI Marked	YES
Bidder must furnish valid BIS License No (as per IS 335) along with bid else the bid will be rejected.	YES
Bidder shall upload a self declaration to submit Valid BIS License and Test Report for offered Transformer Oil along with the supply.	Yes

### Corrigendum

1. Extended Upto: 2021-02-11 16:00:00

#### **Terms and Conditions**

#### 1. General Terms and Conditions

- 1.1 This Contract between the Seller and the Buyer, is for the supply of the Goods and/ or Services, detailed in the schedule above, in accordance with the General Terms and Conditions (GTC) as available on the GeM portal (unless otherwise superseded by Goods / Services specific Special Terms and Conditions (STC) and/ or BID/Reverse Auction Additional Terms and Conditions (ATC), as applicable
- **1.2 Terms of delivery:** Free Delivery at Site including loading/unloading. In respect of items requiring installation and / or commissioning and other services in the scope of supply (as indicated in respective product category specification / STC / ATC), and the cost of the same is also included in the Contract price.
- **1.2.1** Contracted goods should be delivered at the consignee or designated delivery location as per the working time of the buying organisation. Seller may get the same confirmed from consignee before scheduling delivery.
- **1.2.2** A copy of the contract should be available with the messenger / dispatching agency that delivers the Goods at consignee / delivery location (preferably pasted / attached outside the consignment / package) for easy reference and ease in delivery acceptance.
- **1.3 Delivery period:** The Delivery Period/Time shall be essence of the Contract and delivery must be completed not later than such date(s). Any modification thereto shall be mutually agreed and incorporated in the Contract as per the provisions of the GTC.
- 1.4 Performance Security: If the Seller fails or neglects to observe or perform any of his obligations under the contract it shall be lawful for the Buyer to forfeit either in whole or in part, the Performance Security furnished by the Seller.
- 1.5 Taxes and Duties: Contract Prices are all inclusive i.e. including all taxes, duties, local levies / transportation / loading-unloading charges etc. Break up of GST shall be indicated by the Seller while raising invoice / bill on GeM. While submitting the bill / invoice Seller shall undertake that the Goods and Services Tax (GST) charged on this bill is not more than what is payable under the provision on the relevant Act or the Rules made there under and that the Goods on which GST has been charged have not been exempted under the GST Act or the Rules made there under and the charges on account of GST on these goods are correct under the provision of that Act or the rules made there under.
- 1.6 Octroi Duty and / or other local taxes: Contract Prices are all inclusive hence no reimbursement over and above the contract price(s) shall be allowed to seller towards payment of local taxes (such as levy of town duty, Octroi Duty, Terminal Tax and other levies of local bodies etc).
- 1.7 Limitation of Liability: The provisions of limitation of liability between Buyer and Seller as given in the GTC shall be applicable here.
- 1.8 Resolution of disputes: The provisions of DISPUTE RESOLUTION BETWEEN BUYER AND SELLER as given in the GTC shall be applicable here.
- 1.9 Liquidated Damages: If the Seller fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value without any controversy/dispute of any sort whatsoever. In case, Service Level Agreement (SLA) is applicable the same shall be applicable for the Contract.

# 1.10 Financial Certificate:

1.10.1 The expenditure involved for this purpose has received the Sanction of the competent financial authority.
1.10.2 The funds are available under the proper head in the sanction budget allotment for the concern financial year.
1.10.3 I have been fully authorized by the department to sign the supply order or incur the liability of the Goods being ordered.
1.11 The bidder should submit a self declaration to the effect in bidder's official letter head that their agency have not been black listed by any Agency whatsoever till date.
Note: This is system generated file. No signature is required. Print out of this document is not valid for payment/ transaction purpose.