

APPROVED VENDORS ARE GIVEN BELOW

01	LT ESP Switch Gear/ Aux. Control Panel/ LT Main Switch Board (As Applicable)	a) L&T b) GE c) C&S Electric d) Siemens e) Schneider (ACB from Schneider, France) f) Unilec** <u>"DR" Category:</u> DR (Details Required) is required to be submitted to NTPC/QA for their consideration and approval for following vendors: - (Also refer SI no: 4 under Important Notes in page no:17). 1) ABB (DR)	Mumbai/ Coimbatore/ Bangalore Noida/Haridwar Mumbai Nasik Gurgaon Bangalore	Cat-1	BAP/QR/ R839,R840, R841&R4R2: ESPSG: 007 Rev 00 dated 10 10 18 <u>LT Switchgear Sub QR requirements:</u> 1). Bidder/ sub vendor should have manufactured and supplied at least four hundred & fifty (450) nos. draw out type Air Circuit Breaker (ACB) panels and / or draw out Motor Control Centre panels complete in all respects with fault rating of at least 45KA for 1 sec. And 105KA (peak) under a single order and these panels should have been in successful operation for a period of not less than two (2) years prior to the date of techno-commercial bid opening (03 03 2017). 2) Bidder/ sub vendor should have manufactured and supplied at least one hundred & fifty (150) nos. of Air Circuit Breakers having fault rating of at least 105KA MAKING and 45KA BREAKING, and their associated draw out Circuit Breaker Panels having fault withstand of at least 45KA for 1 second, which should have been in successful operation for a period of not less than two (2) years prior to the date of techno-commercial bid opening (03 03 2017). Note: Each single front panel shall be counted as one (1) panel, Double front panel as one (1) panel and Air Circuit Breaker panel as one (1) vertical panel. NUMERICAL RELAYS: 1) Numerical Relays shall be offered from a manufacturer who has manufactured and supplied and successfully configured at least 100 no's of Numerical Relays with IEC 61850 used for application in Feeder protections/Transformer protections/Motor protections. These Relays should have been successful operation for at least one (1) year prior to the date of techno-commercial bid opening (03 03 2017). <u>Important Note for Sub-QR approval:</u> ** Sub QR approval to be obtained for the mentioned vendors. NTPC will not accept any material from these vendors unless otherwise Sub QR approval obtained from NTPC Engineering and hence Purchase order shall be placed only after Sub QR approval from NTPC-Engg. However, Purchase shall proceed up to ordering process with above conditions on these vendors.	BOIs preferably with VDE/CE/UL/CSA marked or BIS approved with valid CML no.
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Ch. Anil Singh
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Dy. Engineer/QA (Electrics)

Reviewed by:

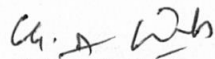
S. Sheela
(S. Sheela)
Dy. Manager/QA (Elec & System)

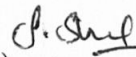
Approved by:

K.C. Gandhi
(K.C. Gandhi Parimlam)
DGM/QA (Electrics)

APPROVED VENDORS ARE GIVEN BELOW.

02	Power Cables (LT Cables PVC & XLPE FRLS)	- Polycab Wires Pvt Ltd - KEI Industries - Paramount Cables - Gemscabs Industries - Delton cable Ltd @ - Cords Cable - Ravin cables - Thermo cables - Gupta Power cables - Havells India Ltd - Sri Ram Cable - Suyog cables** - Universal cable Ltd #** - NICCO#** - Torrent Cable Ltd ** - Incab#** - HindustanVidyut ** Products Ltd# - Sbec Cable #** - Finolex** - Scot Innovation Wires & Cables #** - Anhui Hualing #** - LS Cable #** - Radiant Cable #** - Apar industries** - Special cables **	- Daman - Bhiwadi - Khushkhera - Bhiwadi - Faridabad - Bhiwadi - Pune - Hyderabad - Bhubaneswar - Alwar - Bhiwadi - Vadodara - Satna - Shamnagar, Kolkata - Nadiad - Pune - Faridabad - Bangalore - Pune - Baddi - China - Korea - Hyderabad - Umbergaon - Rudrapur	Cat-I	BAP/QR/ R839, R840, R841&R4R2:P&C: 009 Rev NO: 00 dt 10 10 2018 <u>1.1KV Power Cable Sub QR requirements:</u> The bidder/Sub-vendor should have manufactured and supplied the following: At least 100KM of Aluminum conductor XLPE insulated, PVC sheathed power cables of 1.1. kV or higher grade in one single contract At least 100KM of Aluminum conductor PVC insulated, PVC sheathed power cables of 1.1. kV or higher grade in one single contract At least one (1) km of flame retardant low smoke cables. 1.1LV or higher grade power cable of minimum 630sq.mm. Conductor size. <u>Import Note for Sub-QR approval:</u> **Sub QR approval to be obtained for the mentioned vendors. NTPC will not accept any material from these vendors unless otherwise Sub QR approval obtained from NTPC Engineering and hence Purchase order shall be placed only after Sub QR approval from NTPC-Engg. However, Purchase shall proceed up to ordering process with above conditions on these vendors.	@ a) Unarmored cable all sizes b) Armored cable up to 3.5x240 sq.mm with G.I strip armoured and 1Cx70 sq.mm with Al strip armour # Figuring in NTPC approved vendor list, however these vendor name is not figuring in BHEL BAP approved vendor directory
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Dy. Engineer/QA (Electrics)

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(S. Sheela)
Dy. Manager/QA (Elec & System)

Approved by: 
(K. C. Gandhi Parimlam)
DGM/QA (Electrics)

APPROVED VENDORS ARE GIVEN BELOW.

	Continue..... Power Cables (LT Cables PVC FRLS)	“DR” Category: DR (Details Required) is required to be submitted to NTPC/QA for their consideration and approval for following vendors (Also refer SI no: 4 under Important Notes in page no:17). 1.KEC International (DR) ** 2.Manisfield Cables (DR) ** 3.Diamond Power (DR) ** 4.Crystal Cable (DR) ** 5.Krishna Electricals(DR) ** 6.Dynamic cables (DR) ** 7.Tripati plastomatics(DR) ** 8.Govind Cable (DR) ** 9.goyolene fibre(DR) ** 10.chandrash cables(DR) **	Vadodara G. Noida Vadodara Kolkata Gwalior Jaipur Jaipur Kolkata Daman Gandhinagar		1.1KV Power Cable Sub QR requirements: The bidder/Sub-vendor should have manufactured and supplied the following: e) At least 100KM of Aluminum conductor XLPE insulated, PVC sheathed power cables of 1.1. kV or higher grade in one single contract f) At least 100KM of Aluminum conductor PVC insulated, PVC sheathed power cables of 1.1. kV or higher grade in one single contract g) At least one (1) km of flame retardant low smoke cables. h) 1.1LV or higher grade power cable of minimum 630sq.mm. Conductor size. Import Note for Sub-QR approval: **Sub QR approval to be obtained for the mentioned vendors. NTPC will not accept any material from these vendors unless otherwise Sub QR approval obtained from NTPC Engineering and hence Purchase order shall be placed only after Sub QR approval from NTPC-Engg. However, Purchase shall proceed up to ordering process with above conditions on these vendors.	
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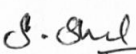
Approved by:

(K.C Gandhi Parimlam)
DGM/QA (Electrics)

APPROVED VENDORS ARE GIVEN BELOW.

03	Control Cables (LT Cables PVC FRLS)	a) ELKAY TELELINK b) KEI Industries Ltd c) Paramount Cables d) Poly Cab Wires Pvt Ltd e) Gemscabs Industries f) Cords Cables g) SPM cables h) Ravin cables i) Delton Cable Ltd j) Havells India Ltd # k) Suyog cables** l) NICCO *** m) Torrent Cable Ltd ** n) Incab *** o) Hindustan Vidyut Products Ltd *** p) R.R.Kabel *** q) Gupta Power Cable r) Thermo Cables s) Finolex** t) Sbec Cables *** u) Universal Cable *** v) Scot Innovation Wires & Cables *** w) Anhui Hualing *** x) LS Cable *** y) Radiant Cables *** z) special cable** aa) CMI **	Faridabad Bhiwadi Khushkhera Daman Bhiwadi Bhiwadi Hyderabad Pune Faridabad Alwar Vadodara Shamnagar, Kolkata Nadiad Pune Faridabad Silvasa Bhubaneswar Hyderabad Pune Bangalore Satna Baddi China Korea Hyderabad Rudrapur Faridabad	Cat-I	BAP/QR/ R839, R840, R841&R4R2: P&C: 009 Rev NO: 00 dt 10 10 2018 <u>1.1KV Power Cable Sub QR requirements:</u> The bidder/Sub-vendor should have manufactured and supplied the following: a) At least 300KM PVC insulated, PVC sheathed Stranded copper conductor 1.1. kV grade cables in one single contract b) At least one (1) km of flame retardant low smoke cables. <u>Import Note for Sub-QR approval:</u> **Sub QR approval to be obtained for the mentioned vendors. NTPC will not accept any material from these vendors unless otherwise Sub QR approval obtained from NTPC Engineering and hence Purchase order shall be placed only after Sub QR approval from NTPC-Engg. However, Purchase shall proceed up to ordering process with above conditions on these vendors.	# Figuring in NTPC approved vendor list, however these vendor name is not figuring in BHEL BAP approved vendor directory
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APPROVED VENDORS ARE GIVEN BELOW.

Continue..... Control Cables (LT Cables PVC FRLS)	“DR” Category: DR (Details Required) is required to be submitted to NTPC/QA for their consideration and approval for following vendors:- (Also refer Sl no: 4 under Important Notes in page no:17). a) KEC International (DR)** b) Mansfield Cables(DR) ** c) Diamond Power (DR) ** d) Crystal Cable (DR) ** e) Apar Industries (DR) ** f) Krishna Electricals** (DR) g) Govind Cable (DR) ** h) Income (DR) ** i) Sam Cable (DR) ** j) Advance cable (DR) ** k) Tirupati plastomatics** l) Serval India(DR) ** m) Goyolene fibre(DR) ** n) Sriram cable** o) Dynamic cable**	Vadodara G. Noida Vadodara Kolkata Vadodara Gwalior Kolkata Delhi Rudrapur Bangalore Jaipur Nimrana Daman Alwar Jaipur		BAP/QR/ R839, R840, R841&R4R2: P&C: 009 Rev NO: 00 dt 10 10 2018 <u>1.1KV Power Cable Sub QR requirements:</u> The bidder/Sub-vendor should have manufactured and supplied the following: c) At least 300KM PVC insulated, PVC sheathed Stranded copper conductor 1.1. kV grade cables in one single contract d) At least one (1) km of flame retardant low smoke cables. <u>Import Note for Sub-QR approval:</u> **Sub QR approval to be obtained for the mentioned vendors. NTPC will not accept any material from these vendors unless otherwise Sub QR approval obtained from NTPC Engineering and hence Purchase order shall be placed only after Sub QR approval from NTPC-Engg. However, Purchase shall proceed up to ordering process with above conditions on these vendors.	
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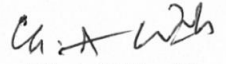
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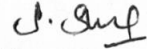
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04	Screened Cables(FRLS)	a) Polycab b) Elkay Tele links c) Paramount d) Universal # e) NICCO # f) Delton g) Incab # h) Thermo cables i) KEI j) Cords k) Gupta Power Infrastructure Ltd “DR” Category: DR (Details Required) is required to be submitted to NTPC/QA for their consideration and approval for following vendors: - (Also refer SI no: 4 under Important Notes in page no:17). a) Advance Cables (DR) b) CMI (DR) c) Special Cables (DR) d) KEC (DR)	Daman Faridabad Khushkhera Satna Kolkata Faridabad Pune Hyderabad Bhiwadi Bhiwadi Khurda Bangalore Bhiwadi Rudrapur Mysore	Cat-I	BAP/QR/ R839, R840, R841&R4R2: SC: 010 Rev NO: 00 dt 10 10 2018	# Figuring in NTPC approved vendor list, however these vendor name is not figuring in BHEL BAP approved vendor directory
05	HVR transformer and EC Panel \$\$\$\$	\$\$\$\$ Cat-I item but BHEL Jhansi and Bhopal scope of supply				
06	ESP Controllers (ARECA, INTELLIRAP, STATCON) (As applicable)	a) EM Electronics b) Advanced Electronics c) System Aids d) Vasantha Advanced System	Bangalore Bangalore Bangalore Coimbatore	Cat. III	❖ As per Engg Technical Specification (TEP) referred by Engg/ E and C&I in the relevant indents. ❖ No Type test approval by NTPC/Engg is envisaged. However, all the type test reports applicable. As per relevant engineering Specification shall be submitted	

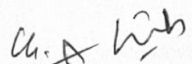
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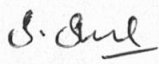
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Approved by: 
 (K.C Gandhi Parimlam)
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07	INTELIRAP, STATCON & IOS PANEL (Without controller) (As applicable)	a) Prameen Industries b) Industrial Controls & Appliances. c) Chemin Control d) Control & Schematic e) BHEL EPD f) Control and Switchgear “DR” Category DR (Details Required) is required to be submitted to NTPC/QA for their consideration and approval for following vendors: - (Also refer SI no: 4 under Important Notes in page no:17).	Pudukkottai Mumbai Pondicherry Hyderabad Bangalore Hyderabad	Cat. I @ @ @ @	BAP/QR/ R839, R840, R841&R4R2/RSI:007 Rev NO: 00 dt 10 10 2018	@ Inspection category will be decided during vendor evolution
		a) Sajas Electrical (DR) b) Shibsha Instruments(DR) c) Computer Control Operations(DR) d) Keas Control Systems India Pvt.Ltd. (DR)	Trichy Chennai Pondicherry Coimbatore	@ @ @ @		

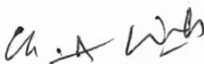
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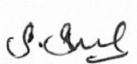
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 (K.C.Gandhi Parimlam)
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APPROVED VENDORS ARE GIVEN BELOW.

08	LT MOTORS	a) KEC	Bangalore/ Hubli (Up to 90KW) Ahmednagar	Please refer remark column for Categorization	BAP/QR/ R839, R840, R841&R4R2/LTM:012 Rev NO: 00 dt 10 10 2018	Cat I Above 50 KW and up to 200KW NTPC inspn as per appd RQP/MQP	
		c) CGL		Please refer remark column for Categorization		** Acceptance of Motor rating between 30KW to 50 KW is based on NTPC Review of Routine Test Inspection report as per IS 325 Witnessed by BHEL/BHEL AIA ie Main contractor along with COC of the manufacturer and the contractor confirming as follows: “It is hereby confirmed that the above mentioned motor was /motors were manufactured taking care of NTPC specific requirements regarding ambient temperature, voltage and frequency variation, hot starts , pull out torque, starting KVA/KW, temperature rise, distance between centre of stud and gland plate, space heater and in accordance with approved drawing /data sheets” ##Acceptance of Motor less than 30KW is based on COC of the manufacturer and the contractor conforming as follows: “It is here by confirmed that the above mentioned motor/motor was / were manufactured taking care of NTPC specific requirements regarding ambient temperature, voltage and frequency variation, hot starts , pull out torque, starting KVA/KW, temperature rise ,distance between centre of stud and gland plate and tested in accordance with approved drawing /data sheet”.	Cat-II **From 30KW to 50KW BHEL Inspection
		b) SIEMENS	Mumbai		# #Cat-III Up to 30KW		
		c)ABB	Faridabad up to 55KW/ Bangalore above 55KW				# Figuring in NTPC approved vendor list , However this vendor name is not figuring in BHEL BAP approved vendor directory for this item
		e) BBL	Mumbai				
		f) NGEF	Hubli (up to15KW)				
		g) Marathon #	Kolkata				
		h) Jyoti	Vadodara				
		i) LHP	Solapur				
09	Electrical Actuator (with Gear Box also)	a) AUMA India b) AUMA c) Rotork d) Rotork e) LIMITORQUE f) Drehmo	Bangalore Germany Chennai/ Bangalore UK Faridabad Germany	Cat II		No Type test approval by NTPC/Engg is envisaged. However, all the type test reports applicable. As per relevant engineering Specification shall be submitted	

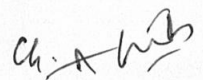
Prepared by: 
 (Ch. Anil Singh)
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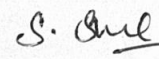
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 Dy. Manager/QA (Elec & System)

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 (K.C Gandhi Parimlam)
 DGM/QA (Electrics)

APPROVED VENDORS ARE GIVEN BELOW.

10	Bushing Insulator.	a) BHEL EPD	Bangalore	Cat: II	BAP/QR R839,R840,R841&R4R2/BI:001 Rev NO: 00 dt 10 10 2018	
11	Shaft Insulator.	b) BHEL EPD	Bangalore	Cat: II	BAP/QR/ R839,R840,R841&R4R2/SI:002 Rev NO: 00 dt 10 10 2018	
12	Support Insulator. (Cylindrical type)	c) BHEL EPD	Bangalore	Cat: II	BAP/QR/ R839,R840,R841&R4R2/SI:003 Rev NO: 00 dt 10 10 2018	
13	Flexible cable tray supports	a) AMTech +Galvanising at BG Shirke b) Steelite Engg. c) VATCO + Galvanising at Sigma Mumbai d) Industrial Perforations e) Indiana Gratings +Galvanising at Poona Galvaniser f).Premier Power products +Galvanising at Neha Galvaniser g) Inar Profiles # h) Ratan Projects+ Galvanising at NTPC approved sources i) Indmark Fortech(DR)	Pune Mumbai Mumbai Kolkatta Pune Kolkatta Enkapalli Kolkatta Pune	Cat I	BAP/QR / R839,R840,R841&R4R2/FLX: 011 Rev NO: 00 dt 10 10 2018	# Figuring in NTPC approved vendor list , However these vendor name is not figuring in BHEL BAP approved vendor directory
14	Ash Level Indicator	a) EIP Enviro Level # b) NIVO Controls c) Flow star d) BHEL (DR)	Noida Indore Faridabad Ranipet	Cat. II Cat. II Cat. II Cat. III	BAP/QR/ R839,R840,R841&R4R2:ALI:008 Rev NO: 00 dt 10 10 2018	# Figuring in NTPC approved vendor list , However these vendor name is not figuring in BHEL BAP approved vendor directory

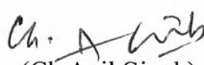
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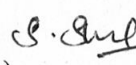
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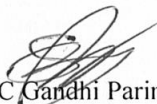
Approved by: 
(K.C Gandhi Parimlam)
DGM/QA (Electrics)

APPROVED VENDORS ARE GIVEN BELOW.

15	Panel Type Hopper Heater for ESP	a) Thermon b) HTD Heat Trace \$* c) HOT FOIL EHS Inc d) HTD heat Trace India e) Thermon f) Thermopads^^	USA USA USA Hyderabad Pune Hyderabad	Cat. II Cat-II Cat- II Cat-I Cat-I Cat-I	(1) Review of FM Certification for Heater Modules or evidence of approval in FMRC APPROVAL GUIDE – Electrical Equipment by BHEL (2) NTPC approved Sub vendor make alone to be used which is forming part of MQP/RQP (As applicable) (3) Type tests as stipulated in BHEL/NTPC specification are to be complied. (4) Inspection Call is to be given to BHEL/BAP/Ranipet only. ^^ Approved subject to successful execution of trail order.	\$* For Panel type Hopper Heaters, the mounting accessories will be manufactured in India and will be supplied by the Indian representatives
16	RTD and Thermo Couple along with Thermowell	a) Thermal Instrument Ind Pvt.LTd b) Tempsens Instrument (I) Pvt Ltd c) Detriv Inst and Elect Ltd d) Pyro Electric Instrument (GOA) Pvt Ltd e) Techno Instruments "DR" Category: DR (Details Required) is required to be submitted to NTPC/QA for their consideration and approval for following vendors:- (Also refer SI no: 4 under Important Notes in page no: 17). f) GOA Instruments Pvt Ltd(DR) g) Toshniwal Industrial Pvt Ltd(DR) h) Baumer Technologies India Pvt Ltd(DR)	Mumbai/ Savantwadi Udaipur Mumbai GOA Ahmedabad GOA Ajmer Vapi	Cat-II @ @ @	Will be intimated later	@ Inspection category will be decided during vendor evolution
17	Disconnecting Switches	BHEL approved Vendors But Insulators Make shall be BHEL/WSI/JSI/UCE/ADITYA BIRLA		Cat III But Type test approval by NTPC/Engg is required.	BAP/QR/ R839,R840,R841&R4R2: DS:004 Rev NO: 00 dt 10 10 2018	

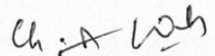
Prepared by: 
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 Dy. Engineer/QA (Electrics)

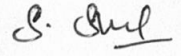
Reviewed by: 
 (S.Sheela)
 Dy.Manager/QA (Elec &System)

Approved by: 
 (K.C Gandhi Parimlam)
 DGM/QA (Electrics)

APPROVED VENDORS ARE GIVEN BELOW.

18	Cable Trays and accessories / Earthing & Lightning Protection material	a) Industrial Perforation b) Jamna Metal c) MJ Engineering d) VATCO+Galvanizing at Sigma Mumbai e) Patney System f) Kannade Anand Udyog @@ g) Amtech+galvanizing at B.G.shirke-Pune h) Indiana Gratings+Galvanizing at Poona Galvanisers/Anand Yeeknow Aids Engg i) Ratan Engineering + Galvanising at B.P Projects j) Unitech Fabricators & Engineers k) TRG + Galvanising at T.M Radha Krishna Chetty & Co. l) Rukmani (Ladder type cable trays only) m) Steelite Engg n) Premier power Products+Galvanizing at Neha galvanisers o) Passive Infra p) Inar Profiles Ltd*	Kolkata Delhi/Kundli Okhla / Bhiwadi Mumbai Hyderabad Mumbai Pune Pune Kolkata Howrah/Hooghly (Kolkata) Chennai Raipur Mumbai Kolkata Hasangarh (Rohtak) Enakapalli	Cat I	BAP/QR / R839,R840,R841&R4R2/FLX: 012 Rev NO: 00 dt 10 10 2018 - Galvanizing Coating Thickness = 86 microns - Mass of Zinc Coating = 610 grams per meter square - Galvanishing shall be done only at NTPC Approved Sources as mentioned below:- <u>NTPC Approved sources for Galvanishing:-</u> - Anaand Udyog, Mumbai - MJ Engg., Delhi - Inar Profiles, Vishakapatnam - Unistar Galvanisers, Kolkata - BG Shirke Pune - Jamuna metals, Delhi - Sigma Galvanizer Mumbai - A.V.Engg, Kolkata - Techno Engg, Chindigarh - Radhakrishnan Shetty, Chennai - Karamtara, Mumbai - Poona Galvanizers, Pune - Neha Galvanizer, Kolkata - Unitech Galvanizers, Hooghly - Gurupreet Galvan, Hyderabad - B.P Project, Kolkata - Bajaj, Pune - Electrocare Industries, Mumbai - Steelite, Mumbai - National Galvanisers, Kolkata - DMP Projects, Kolkata	@@Fabrication at their units : Plot No 42, Moriv District Thane & Plot No:D-35 Anand Nagar MIDC, Addl.Amebarnath, Dist.Thane. Galvanization and offer the galvanized cable trays for inspection at D-34 Anand Nagar MIDC, Addl Ambernath Dist.Thane. # Figuring in NTPC approved vendor list , However these vendor name is not figuring in BHEL BAP approved vendor directory
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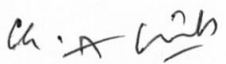
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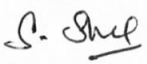
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(K.C Gandhi Parimlam)
DGM/QA (Electrics)

APPROVED VENDORS ARE GIVEN BELOW.

Continue.... Cable Trays and accessories /Earthing & Lightning Protection material	q) Indiana Cable Trays+Galvanising at Karamtara Galvanisers	Mumbai			
	r) India Electric Syndicate+Galvanisi ng at BMW Industries/B.P Projects	Kolkata			
	s) Rabi Engg +Galvanising at NTPC approved Sources	Kolkata			
	t) Advance power products	Howrah			
	<u>"DR" Category:</u> DR (Details Required) is required to be submitted to NTPC/QA for their consideration and approval for following vendors:- (Also refer SI no: 4 under Important Notes in page no: 17).				
	Maheswari Electrical(DR)	Noida			
	Saral inductrics(DR)	Raibareli			
	Parmer metal(DR)	Rajkot			
	Pentax(DR)	Mumbai			
	Eros metal(DR)	Nagpur			
	Vinfab(DR)	Thane			
	Namdahri (DR)	Ludhiana			
	Indmark formtech (DR)	Pune			

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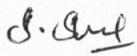
Reviewed by: 
(S. Sheela)
Dy. Manager/QA (Elec & System)

Approved by: 
(K.C. Gandhi Parimlam)
DGM/QA (Electrics)

APPROVED VENDORS ARE GIVEN BELOW.

19	Junction Boxes (Galvanized) for ESP application	BHEL Approved Sources But Galvanizing is to be done at NTPC approved sources as indicated.	---	Cat III BHEL SQP ref no: QP:E:843 Rev 00 and BHEL purchase spec/drawing/catalogue	- Galvanishing Coating Thickness = 65microns - Mass of Zinc Coating =460grams per meter square - Galvanishing shall be done only at NTPC Approved Sources as mentioned below:- NTPC Approved sources for Galvanishing:- - Anaand Udyog, Mumbai - MJ Engg.,Delhi - Inar Profiles,Vishakapatnam - Unistar Galvanisers,Kolkata - BG Shirke Pune - Jamuna metals, Delhi - Sigma Galvanizer Mumbai - A.V.Engg, Kolkata - Techno Engg,Chindigarh - Radhakrishnan Shetty, Chennai - Karamtara ,Mumbai - Poona Galvanizers,Pune - Neha Galvanizer, Kolkata - Unitech Galvanizers,Hoogly - Gurupreet Galvan, Hyderabad - B.P Project, Kolkata - Bajaj, Pune - Elctrocare Industries, Mumbai - Steelite , Mumbai - National Galvanisers, Kolkatta - DMP Projects, Kolkatta	
		Make Crimping Lugs shall be from (i) M/s Dowells Mumbai , (ii) M/s Billets Elektro Werke Ltd (3D), Umbergaon & (iii) Chetna Nasik . Any additional makes model with VDE or CE or UL or CSA marking or BIS approved with CML no. (VDE/CE/UL/CSA Marking for project quality : self certification/ valid certification from third party agency or BIS approval letter with CML No. for product quality shall be submitted for NTPC 's Information) Cable Gland shall as per BHEL Approved makes				
20	Opacity Monitor	a) Durag *# b) CODEL @ c) LAND Combustion*# d) Sick*# "DR" Category: DR (Details Required) is required to be submitted to NTPC/QA for their consideration and approval for following vendors:- (Also refer SI no: 4 under Important Notes in page no: 10). 1. Durag India Instrumentation Pvt.Ltd.(DR)	Germany UK UK Germany Bengaluru	Cat. III COC is to be submitted by BHEL as per BHEL PO conditions	Compliance TC w.r.t Degree of protection shall be submitted by the vendor along with offer itself as per Model/Type quoted against BHEL requirements	*#Minor items like canopy will be manufactured in India and supplied by the Indian representatives @ Through M/s FORBES MARSHALL-PUNE. Minor items like canopy will be manufactured in India and supplied by the Indian representatives

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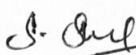
Reviewed by: 
(S.Sheela)
Dy.Manager/QA (Elec &System)

Approved by: 
(K.C Gandhi Parimlam)
DGM/QA (Electrics)

APPROVED VENDORS ARE GIVEN BELOW.

21	Heating Elements (Tubular) for ESP	BHEL approved Vendors	---	Cat III QP:E:837,Rev 00 And BHEL purchase spec/drawing/ catalogue	No Type test approval by NTPC/Engg is envisaged	
22	Inter locks for ESP	BHEL approved Vendors	---	Cat III QP: E:834 Rev 01 BHEL purchase spec/drawing/ catalogue	No Type test approval by NTPC/Engg is envisaged	
23	Local Start/Stop Push Buttons stations for ESP	BHEL approved Vendors	---	Cat -III SQP:E:840 Rev:00 BHEL purchase spec/drawing/ catalogue	No Type test approval by NTPC/Engg is envisaged	push button shall be with CE/VDE/UL/ CSA marked (or) BIS Approved valid License
24	Geared Motor for ESP application	a) Power Build b) New Allenbery Works c) Shanthi Gears ltd d) Laxmi Hydraulic Pvt. Ltd	V.V Nagar Kolkata Coimbatore Sholapur	Cat III QP: E:809 Rev 06	No Type test approval by NTPC/Engg is envisaged	
25	EOH for ESP application (3 Tons)	BHEL approved Vendors	---	Cat III QP:E:810 Rev 06	No Type test approval by NTPC/Engg is envisaged	
26	Junction Boxes **(Galvanshed) for Gates and dampers Junction Boxes (painted)) for Gates and dampers	BHEL approved Vendors	---	Cat III QP:E:843 Rev 00 and BHEL purchase spec/drawing/ catalogue	No Type test approval by NTPC/Engg is envisaged	
27	Thermostat for ESP	BHEL approved Vendors	---	Cat III BHEL SQP ref no: QP:E:842 Rev 00	---	

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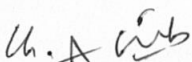
Reviewed by: 
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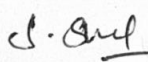
Approved by: 
(K.C Gandhi Parimlam)
DGM/QA (Electrics)

APPROVED VENDORS ARE GIVEN BELOW.

28	Limit switch with lever for Gates and Dampers	BHEL approved Vendors	---	Cat III	---	
29	Earthling Materials (GI Flats) for ESP	BHEL approved Vendors	---	Cat III	---	
30	Personnel Computer for ESP	BHEL approved Vendors	---	Cat III	---	
31	Printer for ESP	BHEL approved Vendors	---	Cat III	---	
32	Cable Glands	BHEL approved Vendors	---	Cat III	---	
33	Cable Lugs	a) Dowell b) Billets Elektro Werke Ltd.(3D) c) Chetna	Mumbai Umbergaon Nasik	Cat III		
Any additional makes model with VDE or CE or UL or CSA marking or BIS approved with CML no. (VDE/CE/UL/CSA Marking for project quality self-certification/ valid certification from third party agency or BIS approval letter with CML No. for product quality shall be submitted for NTPC 's Information)						
34	Other items like PC Termination Box, PC add on card, Simulator for BAPCON, COMCON interface module, PC	BHEL approved Vendors	---	Cat III	---	

ALL OTHER ITEMS OTHER THAN ABOVE WILL BE PROCURED FROM BHEL APPROVED SOURCES AND AS PER BHEL SYSTEM. HOW EVER FOR ITEMS NOT APPEARING IN THE ABOVE LIST MAY PLEASE BE INFORMED TO BHEL/QA TO DECIDE /APPROCH NTPC FOR THEIR ACCEPTANCE w.r.t VENDOR CATEGORY /INSPECTION CATEGORISATION OF THE SAME.

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 Dy. Engineer/QA (Electrics)

Reviewed by: 
 (S. Sheela)
 Dy. Manager/QA (Elec & System)

Approved by: 
 (K. C. Gandhi Parimlam)
 DGM/QA (Electrics)



CORPORATE QUALITY ASSURANCE

SUB-VENDOR QUESTIONNAIRE

i.	Item/Scope of Sub-contracting			
ii.	Address of the registered office	Details of Contact Person (Name, Designation, Mobile, Email)		
iii.	Name and Address of the proposed Sub-vendor's works where item is being manufactured	Details of Contact Person: (Name, Designation, Mobile, Email)		
iv.	Annual Production Capacity for proposed item/scope of sub-contracting			
v.	Annual production for last 3 years for proposed item/scope of sub-contracting			
vi.	Details of proposed works			
1.	Year of establishment of present works			
2.	Year of commencement of manufacturing at above works			
3.	Details of change in Works address in past (if any)			
4.	Total Area			
	Covered Area			
5.	Factory Registration Certificate	Details attached at Annexure – F2.1		
6.	Design/ Research & development set-up (No. of manpower, their qualification, machines & tools employed etc.)	Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design Details attached at Annexure – F2.2 (if applicable)		
7.	Overall organization Chart with Manpower Details (Design/Manufacturing/Quality etc)	Details attached at Annexure – F2.3		
8.	After sales service set up in India, in case of foreign sub-vendor (Location, Contact Person, Contact details etc.)	Applicable / Not applicable Details attached at Annexure – F2.4		
9.	Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any	Details attached at Annexure – F2.5		

SUB-VENDOR QUESTIONNAIRE**CORPORATE QUALITY ASSURANCE****SUB-VENDOR QUESTIONNAIRE**

10.	Quality Control exercised during receipt of raw material/BOI, in-process , Final Testing, packing			Details attached at Annexure – F2.6		
11.	Manufacturing facilities (List of machines, special process facilities, material handling etc.)			Details attached at Annexure – F2.7		
12.	Testing facilities (List of testing equipment)			Details attached at Annexure – F2.8		
13.	If manufacturing process involves fabrication then-			Applicable / Not applicable		
	List of qualified Welders			Details attached at Annexure – F2.9		
	List of qualified NDT personnel with area of specialization			(if applicable)		
14.	List of out-sourced manufacturing processes with Sub-Vendors' names & addresses			Applicable / Not applicable		
				Details attached at Annexure. –F2.10 (if applicable)		
15.	Supply reference list including recent supplies			Details attached at Annexure – F2.11 (as per format given below)		
	Project/ package	Customer Name	Supplied Item (Type/Rating/Model /Capacity/Size etc)	PO ref no/date	Supplied Quantity	Date of Supply
16.	Product satisfactory performance feedback letter/certificates/End User Feedback			Attached at annexure - F2.12		
17.	Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product (similar or higher rating) Note:- Reports need not to be submitted			Applicable / Not applicable		
				Details attached at Annexure – F2.13 (if applicable)		
18.	Statutory / mandatory certification for the proposed product			Applicable / Not applicable		
				Details attached at Annexure – F2.14 (if applicable)		
19.	Copy of ISO 9001 certificate (if available)			Attached at Annexure – F2.15		
20.	Product technical catalogues for proposed item (if available)			Details attached at Annexure – F2.16		
Name:		Desig:		Sign:		Date:

Company's Seal/Stamp:-