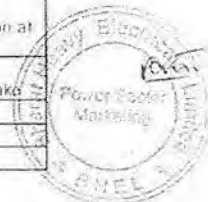


		PROJECT : UPRVUNL 1x660 MW PANKI		LIST OF C&I ITEMS REQUIRING QP			REVISION NO : 00
		PACKAGE : EPC		APPROVAL & ACCEPTABLE VENDOR AS			DATE : 03.06.2019
		CONTRACTOR : BHEL		APPROVED			
		CONTRACT NO :					
Sr No	Major Equipment	QP Inspection Category	Proposed Sub Supplier	Place/Country	Provenness Category	Approval Status	Remarks
1	AAQMS						
		I	Chemtrol Engineering Ltd	Goa	Note-1	A	AAQMS analysers from M/S Teledyne & metrological sensors & SPM analysers from Met one Instruments Inc USA
		I	Enviroment SA India Pvt. Ltd.	Banglore	Note-1	A	Analysers SO2,NOx,CO2 & SPM from Environment SA France. 2-Multipoint Calibrator From L.N Industries SA Switzerland. 3-Metrological Sensor with interface unit from M/s LSI Lastem SRL Italy
		I	Thermo Fisher Scientific India Pvt. Ltd	Mumbai	Note-1	A	1) Analysers (Sox,NOx,CO,SPM,RSPM, Ozone) ,multi gas calibrator shall be sourced from their principle Thermo Environmental ,USA (Division of M/S Thermo fisher Scientific,USA) 2) Mercury analyzer shall be sourced from M/S Mercury Instruments GMBH Germany. 3)Metrological sensors shall be sourced from M/S Metone Instruments USA
		*	LAND COMBUSTION	UK	Note-1	DR	
2	Acoustic pyrometers						
		I	HI TECH SYSTEMS & SERVICES LTD	Kolkata	Note-1	A	M/S BONNENBERG-DRESCHER GMBH ,GERMANY MAKE SYSTEM
		II	M/s Scientific Environment Instrument Inc	USA	Note-1	A	Conditional as per approval letter 01/COA/3520-001 dated 02.02.2000
		II	M/s Bonnenberg + Drescher GmbH	Germany	Note-1	A	
		II	STOCK Equipment Co	USA	Note-1	A	Conditional as per approval letter 01/COA/4330-102 dated 21.08.2001
3	Acoustic Coal Flow Detector						
		III	Stock Redler India Pvt Ltd	Banglore	Note-1	A	AFM Shall be of M/S Stock USA make
		III	Memick Industries (India) Pvt Ltd	Banglore	Note-1	A	AFM Shall be of M/S Memick Inc USA make
		III	Stock	USA	Note-1	A	
		III	Menck	USA	Note-1	A	
4	ADDRESSABLE DETECTORS (MULTI SENSOR, PHOTO & HEAT DETECTORS TYPE), INTERFACE UNITS & MANNUAL CALL POINTS						
		II	NOTIFIER	USA	Note-1	A	
		II	AUTRONICA	NORWAY	Note-1	A	
		II	SCHRACK	AUSTRIA	Note-1	A	



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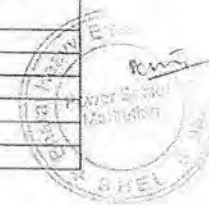
		PROJECT : UPRVUNL 1x660 MW PANKI		LIST OF C&I ITEMS REQUIRING QP		REVISION NO : 00
		PACKAGE : EPC		APPROVAL & ACCEPTABLE VENDOR AS		DATE : 03.05.2015
		CONTRACTOR : BHEL		APPROVED		
		CONTRACT NO :				
		II	EDWARDS	USA	Note-1	A
		II	Tyco	USA	Note-1	A
		*	ESSER (HONEYWELL)	GERMANY	Note-1	A
5	Battery (Ni-Cd)					
		I	SAFT INDIA LIMITED	Bangalore	Note-1	A
		I	HBL POWER	Hyderabad	Note-1	A
		II	SAFT	France/Sweden	Note-1	A
		II	HOPPECKE BATTERIEN GMBH & CO KG	Germany	Note-1	A
		*	Cummins Pulse Lite		Note-1	DR
6	Blank Panels / Cabinets					
		III	Rittal	Bangalore	Note-1	A
		III	Hoffman	Bangalore	Note-1	A
		III	Pyrotech	Udaipur	Note-1	A
		III	BHEL	Bangalore	Note-1	A
7	Boiler tube leak detection system					
		II	HI TECH SYSTEMS & SERVICES LTD	Kolkata	Note-1	A
		III	BHEL	Trichy	Note-1	A
		III	Raman Instruments	Delhi	Note-1	A
		III	INSTROTECH (PTY) Ltd	South Africa	Note-1	A
		III	Rectuson Restusan Co. Ltd	Korea	Note-1	A
		III	Procon	UK	Note-1	A
		III	Acoustic Monitoring International Inc.	USA	Note-1	A
8	CCTV Components (IP)					
		II	Axis	Sweden	Note-1	A
		III	Honeywell Security & Fire	Gurgaon	Note-1	A
		III	Pelco	USA	Note-1	A
		*	HONEYWELL AUTOMATION	BANGALORE	Note-1	DR
		*	SCHNEIDER ELECTRIC	BANGALORE	Note-1	DR



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		PROJECT : UPRVUNL 1x660 MW PANKI		LIST OF C&I ITEMS REQUIRING QP			REVISION NO : 00
		PACKAGE : EPC		APPROVAL & ACCEPTABLE VENDOR AS			DATE : 03.06.2019
		CONTRACTOR : BHEL		APPROVED			
		CONTRACT NO :					
32	Electromagnetic Flow Meter						
		III	M/S Siemens Sensor & Communication Ltd	China	Note-1	A	Supply of Full bore in line type Electromagnetic flow meter up to 1500 NB size
33	EQMS				Note-1		Note-10
34	Fiber optic cable						
		Note-3	HFCL	Goa	Note-1	A	
		Note-3	Aksh Fibre	Bhiwadi	Note-1	A	
		Note-3	Finolex	Pune/Goa	Note-1	A	
		Note-3	M/S Birla Cable Limited	Rewa	Note-1	A	
		Note-3	APAR INDUSTRIES LIMITED	Valsad	Note-1	A	
		*	D-LINK	INDIA	Note-1	DR	
		*	R&M	INDIA	Note-1	DR	
		*	SCHNEIDER-DIGILINK	INDIA	Note-1	DR	
		*	TYCO/AMP	INDIA	Note-1	DR	
		*	FIBERTEK	BANGALORE	Note-1	DR	
		*	AKASH SOLAR	INDIA	Note-1	DR	
		*	PRISHA NETWORK	BANGALORE	Note-1	DR	
		*	MICRONOVA IMPEX	BANGALORE	Note-1	DR	
		*	WEBCOM	BANGALORE	Note-1	DR	
		*	MICRO SOLUTION	BANGALORE	Note-1	DR	
		*	TEXONIC	BANGALORE	Note-1	DR	
		*	BINARY SYSTEMS PVT LTD	INDIA	Note-1	DR	
		*	NETSOFT TECHNOLOGIES	INDIA	Note-1	DR	
		*	SCHNEIDER ELECTRIC	BANGALORE	Note-1	DR	
		*	INTERFACE CONNECTRONICS	INDIA	Note-1	DR	
		*	RPG CABLES LIMITED	THANE	Note-1	DR	
35	Flame Monitoring System (SCANNER)						
		II	Durag India Instrumentation Pvt Ltd	Bangalore	Note-1	A	FOR Durag Germany based flame scanners
		II	ABB	Bangalore	Note-1	A	Critical items like Sensor, Analyzer unit, Power Supply & Diode Oring will be sourced from Principal ABB-Italy. ii) Complete assembly / wiring of the panel & final testing of the complete flame scanner system will be done at ABB-Bangalore works
		II	FORNEY	USA	Note-1	A	
		II	BFI	Germany	Note-1	A	
		II	BHEL	Trichy	Note-1	A	
		*	MAXON A HONEYWELL COMPANY	INDIANA, USA	Note-1	DR	
		*	LUCENT MARCONS (P) LTD.	NOIDA	Note-1	DR	
		*	FIVES COMBUSTION SYSTEMS PVT. LTD.	GUJARAT	Note-1	DR	



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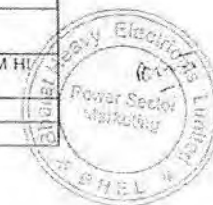
		PROJECT : UPRVUNL 1x660 MW PANKI		LIST OF C&I ITEMS REQUIRING QP APPROVAL & ACCEPTABLE VENDOR AS APPROVED			REVISION NO : 00
		PACKAGE : EPC					DATE : 03.06.2019
		CONTRACTOR : BHEL					
		CONTRACT NO :					
53	Intelligent Battery charger 24V DC / DCDB/BHMS						
		Note-4	Chabbi Electricals	Jalgaon	Note-1	A	Rectifier module, Controller module and Battery Health monitoring system shall be of M/s VERTIV make
		Note-4	Eltek SGS Pvt Ltd	Gurgaon	Note-1	A	
		Note-4	VERTIV ENERGY PVT LTD	Mumbai	Note-1	A	Rectifier module, Controller module and Battery Health monitoring system shall be of M/S VERTIV China
		Note-4	MassTech	MUMBAI	Note-1	A	Rectifier modules shall be of Setec, China
		*	HBL POWER System LTD	HYDERABAD	Note-1	DR	
		*	DUBAS	INDIA/ Bangalore	Note-1	DR	
		*	HITACHI HI-REL	GANDHINADAR	Note-1	DR	
		*	STATCON POWER CONTROL PVT LTD	NOIDA	Note-1	DR	
		*	UNIVERSAL INSTRUMENTS MANUFACTURING CO PVT LTD	Bangalore	Note-1	DR	
		*	HIND RECTIFIERS		Note-1	DR	
		*	CHLORIDE POWER SYSTEMS & SOLUTIONS LTD	INDIA/ Kolkata	Note-1	DR	
		*	AMARARAJA	TIRUPATI	Note-1	DR	
		*	KELTRON POWER ELECTRONICS	TRIVENDRAM	Note-1	DR	
		*	CHABBI ELECTRICALS	MUMBAI	Note-1	DR	
		*	EMERSON NETWORK POWER (PUNE) PVT.LTD.	BANGALORE/ THANE	Note-1	DR	
		*	SERVILINK ENGINEERS PVT.LTD.	VADODARA	Note-1	DR	
		*	ELECTRONIC SYSTEMS	VADODARA	Note-1	DR	
		*	POWER & PROTECTION	KOLKATA	Note-1	DR	
		*	SIGNOTRON (INDIA) PVT LTD	KOLKATA	Note-1	DR	
		*	SYSTEM AID	BANGALORE	Note-1	DR	
		*	SHERENE ELECTRO CONTROL PVT LTD	MUMBAI	Note-1	DR	
		*	UNIVERSAL INDUSTRIAL PRODUCTS	MUMBAI	Note-1	DR	
		*	LIVELINE ELECTRONICS	KOLKATA	Note-1	DR	
54	IR DETECTOR						
		III	NEOLA CORP(ODTI)	USA/CANADA	Note-1	A	
		III	PATOL	UK	Note-1	A	
		*	AGNI CONTROLS	CHENNAI	Note-1	DR	



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		PROJECT : UPRVUNL 1x660 MW PANKI		LIST OF C&I ITEMS REQUIRING QP		REVISION NO : 03
		PACKAGE : EPC		APPROVAL & ACCEPTABLE VENDOR AS		DATE : 03.06.2019
		CONTRACTOR : BHEL		APPROVED		
		CONTRACT NO :				
55	Isolator		Truck/Stahl//P&F/MTL/Wed Muler or OEM approved sources	Note-1		Note-9
56	Large Video Screen (LED Based)					
		I	DELTA	GURGAON	Note-1	A
		I	BARCO	NOIDA	Note-1	A
		I	PLANAR	USA	Note-1	A
		I	Pyrotech Electronics Pvt Ltd	UDAIPUR	Note-1	A
		*	CHRISTIE	USA	Note-1	DR
		*	Mitsubishi		Note-1	DR
		*	Eyevis		Note-1	DR
57	LEVEL SWITCH RF TYPE					
		II	EIP Enviro	Noida	Note-1	A
		II	FLOW STAR	Fardabad	Note-1	A
		III	BHEL	RANIPET	Note-1	A
		*	EIP BULK CONTROLS PVT.LTD	NEW DELHI	Note-1	DR
		*	NIVO CONTROLS PVT LTD	INDORE	Note-1	DR
58	Level switch capacitance type					
		III	D K Instruments Pvt Ltd	Kolkata	Note-1	A
		III	ENDRESS & HOUSER	Aurangabad	Note-1	A
		III	SBEM	PUNE	Note-1	A
		III	PUNE TECHTROL	PUNE	Note-1	A
		III	LEVCON	KOLKATA	Note-1	A
		III	Nivo Controls	Indore	Note-1	A
		III	V AUTOMAT	New Delhi	Note-1	A
		III	MAGNETROL	BELGIUM	Note-1	A
		*	ENDRESS & HOUSER	Switzerland	Note-1	DR
		*	IGEMA GMBH	GERMANY	Note-1	DR
		*	SIEMENS	GERMANY	Note-1	DR
		*	ABB	KOREA	Note-1	DR
		*	ROSEMOUNT	KOREA	Note-1	DR
59	Level switch- cond type					
		III	EMERSON (Solatron mobrey) HYDRASTEP	UK	Note-1	A
		III	Yarway	USA	Note-1	A
		III	LEVELSTATE	UK	Note-1	A
		II	Raman Instruments	Delhi	Note-1	A
		II	Hi Tech	Kolkata	Note-1	A
		II	BHEL	TRICHY	Note-1	A
		*	PUNE TECHTROL PVT LTD	PUNE	Note-1	DR



		PROJECT : UPRVUNL 1x660 MW PANKI		LIST OF C&I ITEMS REQUIRING QP			REVISION NO : 00
		PACKAGE : EPC		APPROVAL & ACCEPTABLE VENDOR AS			DATE : 03.06.2019
		CONTRACTOR : BHEL		APPROVED			
		CONTRACT NO :					
71	Positive displacement flow meter /Transmitter						
		I	Toshniwal corporation Hyvac	Chennai	Note-1	A	1.UP TO 4 INCHES 2.LINE SIZE UPTO 100 NB.3.BOI LIKE SENSROS AND PULSE TO CURRENT CONVERTOR FROM BOPP & REUTHER APPROVED SOURCES.4 ELECTRONIC METER(IF ANY) IS TO BE PROCURED FROM M/S FLUIDWELL,NETHERLAND.
		III	Brooks	USA	Note-1	A	
		III	Bopp & Routhier	Germany	Note-1	A	
		III	OVAL	Japan	Note-1	A	
72	Probe Type Heat Detector						
		III	KIDDE FENWAL	USA	Note-1	A	
		III	TYCO	USA	Note-1	A	
73	ORP MONITOR/ ANALYSER				Note-1		Note-10
74	PR./ VACCUUM/ DP GAUGES						
		III	H.Guru South India	Bangalore	Note-1	A	MIS TYPE,0-1000KSC &0-600DEG C
		III	Gauge Bourdon(GIC)	Panvel	Note-1	A	UPTO 300KSC
		III	Gsa Thermostatic	GOA	Note-1	A	PRESSURE SENSING ELEMENT I.E. BOURDON/DIAPHRAGM/CAPSULE WILL BE SOURCED FROM M/S BACHMAIER AND KEIMMER,GERMANY
		III	Forbes Marshall	Hyderabad	Note-1	A	PRESSURE /DO GAUGES,BOURDON TYPE (OTHER THEN MAIN STEAM AND FEED WATER APPLICATION) UO TO 6" DIAL SIZE .TEMPERATURE GAUGE(GAS FILLED UP TO 6" DIAL SIZE COMPLETE RANGE PRESSURE/DP AND TEMPERATURE GAUGE(ASHCROFT AND MASS BRAND)
		III	Precision mass products Pvt. Ltd.	Gandhinagar	Note-1	A	NOTESHEET NO. 3411 DTD 15/11/2019
		III	Walchandnagar Industries	Dharwad	Note-1	A	up to 250 KG/cm2 (TIWAC Brand) ,6inch dial
		III	Nesstech Instruments Pvt Ltd	Vapi	Note-1	A	1. Upto 250 KG/cm2 up to 6" dial size 2. Complete assembled diff pressure shall be of M/S Nesstech Inc Japan Make 3. For low pressure gauge up to 2.5ksc bourden is to be procured from M/S Beckman & Klemmer Germany
		III	Wika	Pune	Note-1	A	

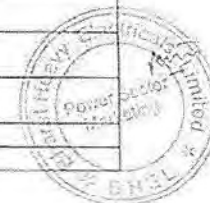


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		PROJECT : UPRVUNL 1x660 MW PANKI		LIST OF C&I ITEMS REQUIRING QP APPROVAL & ACCEPTABLE VENDOR AS APPROVED			REVISION NO : 00	
		PACKAGE : EPC					DATE : 03.06.2019	
		CONTRACTOR :BHEL						
		CONTRACT NO :						
		II	BHEL	BANGALORE	Note-1	A	1. Imported items like Vibration Monitors, Cross Connection Cables, Buffered Output Modules and Piezoelectric Vibration Sensors, Eddy Current type Proximity Probe, Extension Cable and Signal Conditioner will be procured from Valmet Automation, Finland. 2. Indigenous items like Communication cables, networking components, blank panels, TB, OWS will be procured from owner approved sources.	
		II	Sensonic Technologies	Kundli	Note-1	A	For Sensonic UK system	
		*	MEGGITT	BANGALORE	Note-1	DR		
		*	ROCKWELL AUTOMATION	U.S.A/BANGALORE	Note-1	DR		
		*	VIBROMETER	SWITZERLAND	Note-1	DR		
		*	EMERSON	MUMBAI	Note-1	DR		
		*	BUREL AND KAJER		Note-1	DR		
		*	BRUEL & KJAER VIBRO GMBH	GERMANY / DENMARK	Note-1	DR		
		*	IRD MECHANALYSIS LIMITED	MUMBAI	Note-1	DR		
		*	SKF CONDITION MONITORING	U.S.A./ MUMBAI	Note-1	DR		
		*	SQUAREM ELECTRA PVT. LTD. (System Integrator for ROCKWELL AUTOMATION, India products)		Note-1	DR		
		*	VALMET AUTOMATION	FINLAND	Note-1	DR		
		*	WILCOXON SENSING TECHNOLOGY	U.S.A.	Note-1	DR		
		*	PCB PIEZOTRONICS	U.S.A.	Note-1	DR		
		*	CONNECTION TECHNOLOGY CENTER (CTC)	U.S.A.	Note-1	DR		
		*	HANSFORD SENSORS	U.K.	Note-1	DR		
102	SOLENOID VALVE				Note-1		Note-10	
103	Furnace Exit Gas Temperature Probe				Note-1		Note-10	
103	Density Meter				Note-1		Note-10	

FOLLOWING ITEMS TO BE SUPPLIED FROM MAIN CONTRACTOR APPROVED SOURCES

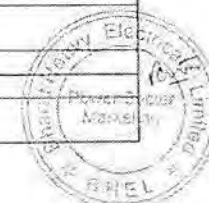
	Major Equipment	QP Inspection Category	Proposed Sub Supplier	PACKAGES
MC-1	AIR FILTER REGULATOR	III	Main Contractor Approved Sources	ALL PACKAGES
MC-2	ANEMOMETER	III	Main Contractor Approved Sources	CT
MC-3	Annunciator	III	Main Contractor Approved Sources	ALL PACKAGES
MC-4	Battery Health Monitoring System	III	Main Contractor Approved Sources	ALL PACKAGES
MC-5	Biofouling/ Deposit Monitor	III	Main Contractor Approved Sources	ALL PACKAGES
MC-6	COMPRESSION FITTINGS(SS)	III	Main Contractor Approved Sources	ALL PACKAGES
MC-7	Condensing Pots	III	Main Contractor Approved Sources	ALL PACKAGES
MC-8	CONDUITS / PIPE (GI)	III	Main Contractor Approved Sources	ALL PACKAGES



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		PROJECT : UPRVUNL 1x660 MW PANKI		LIST OF C&I ITEMS REQUIRING QP APPROVAL & ACCEPTABLE VENDOR AS APPROVED	REVISION NO : 00 DATE : 03.06.2019
		PACKAGE : EPC			
		CONTRACTOR : BHEL			
		CONTRACT NO :			
MC-9	CONDUITS LEAD COATED (FLEXIBLE)	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-10	Copper tubing/Brass connectors	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-11	Coriolis Type Mass Flow meter	III	Main Contractor Approved Sources	SG/AHP	
MC-12	DENSITY INDICATOR	III	Main Contractor Approved Sources	WTP	
MC-13	Desk for OVS/EVS/Printer/Server	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-14	Digital Indicators	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-15	Dust Sensor	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-16	Flow Gauge	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-17	FLOWINDICATOR CUM TOTALISER	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-18	FLOW SWITCH	III	Main Contractor Approved Sources	SG/TG/WTP/AC/AHP/FDPS/HYD PLANT	
MC-19	FRP JUNCTION BOX	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-20	Furniture for control Room(Chair, Almira, Lock)	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-21	Graphic Interface Unit	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-22	Hand Held Calibrator	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-23	Hart Management System	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-24	Humidistat / Thermostat / Gyserstat / Airstat	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-25	INSTANT CORROSION RATE MONITOR	III	Main Contractor Approved Sources	WTP	
MC-26	Instrument Tube Fittings (Air)	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-27	INSTRUMENT VALVE(NEEDLE VALVE)	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-28	KVM SWITCH/MATRIX KVM SWITCH	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-29	Level gauge (Transperent & Reflex, Tubular type)	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-30	Level Indicator (Float & Board type)	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-31	Level Switch FloatType	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-32	LIMIT SWITCH	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-33	Maintenance and Calibration Equipment	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-34	Mini UPS up to 3.5 KVA	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-35	PITOT TUBE	III	Main Contractor Approved Sources	CT	
MC-36	Press, DP, Vacuum Switch	III	Main Contractor Approved Sources	ALL PACKAGES	



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		PROJECT : UPRVUNL 1x660 MW PANKI		LIST OF C&I ITEMS REQUIRING QP APPROVAL & ACCEPTABLE VENDOR AS APPROVED	REVISION NO : 00
		PACKAGE : EPC			DATE : 03.06.2019
		CONTRACTOR : BHEL			
		CONTRACT NO :			
MC-37	PRESSURE TRANSMITTER (PRESSURE, DP, FLOW, LEVEL APPLICATION)	III	Main Contractor Approved Sources	AC/ESP/FDPS	
MC-38	Printer (Dot Matrix)	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-39	Printer (Inkjet / Laser)	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-40	PSYCHROMETER	III	Main Contractor Approved Sources	CT	
MC-41	Pulse jet Controller	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-42	Pulse Valve	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-43	Residual Chlorine Analyser	III	Main Contractor Approved Sources	WTP	
MC-44	ROTAMETER	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-45	Semaphore Indicators	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-46	SIGHT FLOW INDICATOR	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-47	SINGLE AND MULTI POINT TEMPERATURE RECORDER (Microprocessor based)	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-48	SMART POSITIONER	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-49	Socket Weld Fittings	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-50	SOLENOID VALVE	III	Main Contractor Approved Sources	AC/AHP/CHP/CWP/FDPS/HYD PLANT /MILL REJ/STATION PIPING	
MC-51	Solid Mass Flow Meter	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-52	SV BOX	III	Main Contractor Approved Sources	CHP/WTP	
MC-53	Temperature cum Humidity Indicator	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-54	TEMPERATURE SWITCH	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-55	Transducer	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-56	Tube thickness Meter	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-57	Turbidity Analyser	III	Main Contractor Approved Sources	WTP	
MC-58	Voltmeter	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-59	Watthour Meters	III	Main Contractor Approved Sources	ALL PACKAGES	
MC-60	SMF LEAD-ACID BATTERY FOR MICROPROCESSOR BASED FIRE ALARM PANEL	III	Main Contractor Approved Sources	FDPS	
LEGENDS :					
1.0 SYSTEM SUPPLIER / SUB SUPPLIER APPROVAL STATUS CATEGORY					
A - For those items proposed vendor is acceptable to Customer. To be indicated with letter "A" in the list along with the condition of approval, if any.					
DR - For those items "Detailed Required" for Customer review. To be identified with letter "DR" in the list. For these items, vendor shall be proposed for owner acceptance with-in the agreed contract schedule of the package					
SQP-Standard Quality Plan		RQP-Reference Quality Plan			
2.0 QP INSPECTION CATEGORY :					

Nse

7/5/19



PROJECT : UPRVUNL 1x660 MW PANKI	LIST OF C&I ITEMS REQUIRING QP	REVISION NO : 00
PACKAGE : EPC	APPROVAL & ACCEPTABLE VENDOR AS	DATE : 03.06.2019
CONTRACTOR : BHEL	APPROVED	
CONTRACT NO :		

CAT - I : For those items the Quality Plans are approved by Customer and final acceptance will be on physical inspection witness by Customer

CAT - II : For those items the Quality Plans are approved by Customer. However no physical inspection shall be done by Customer. The final acceptance by Customer shall be on the basis of review of documents.

CAT - III : For these items Quality control to be exercised as per Main contractor Quality Assurance System. The final acceptance by Owner shall be on the basis of Certificate of Conformance (COC) by main contractor

UNITS/WORKS : Place of manufacturing- Place of main supplier of multi units/works.

* - Inspection category will be decided during vendor evaluation.

NOTE - 1 : Approval is conditional and subject to Sub QR / Provenances clearance as specified in the contract specification. Further for any change in the Technical specification at later stage vendor approval will be reviewed accordingly.

NOTE - 2 : For Instrument cable <= 1 KM inspection category CAT - III, For > 1 KM to <= 10 KM inspection category CAT - II GOC & FOR > 10 KM inspection category CAT-I

NOTE - 3 : For Fiber Optic cable <= 10KM inspection category CAT - III & for > 10KM inspection category CAT-II

NOTE-4 : Batteries for UPS <= 10 KVA and batteries for intelligent battery charger 24 V DC <= 40 Amp inspection category CAT-III & for Batteries for UPS > 10KVA and batteries for intelligent battery charger 24 V DC > 40 Amp rating inspection category CAT-I

NOTE-5 : UPS <= 10 KVA rating inspection category CAT-III & for > 10KVA rating inspection category CAT-I

NOTE - 6 : For the items not appearing in the preaward list and falls in the scope of supply of the bidder, bidder and Customer will mutually discussed in future.

NOTE - 7 - EMPTY CABINETS, COMPUTERS, SIGNAL ISOLATOR/ MULTIPLIER and TB SHALL ALSO BE ACCEPTABLE FROM OWNER ACCEPTED IN QP, IF THE TOTAL INTEGRATED PANEL AND FAT IS CONDUCTED INDEGENEOUSLY

NOTE-8 : For the C & I Instruments mounted on the skid of the main item or supplied as a integral part of the main item, instrument to be supplied as per proven practice of the manufacturer meeting the Customer technical specification requirement.

NOTE-9: This item is a bought out component of main equipments like DDCMS, PLC, TSI, CCTV, PA system etc

NOTE-10: For these controlled items, vendor shall be proposed for owner acceptance with-in the agreed contract schedule of the package

N Aganwal
N Aganwal
(QA- Consultant)

5/6/19
(S.N. Mishra)



tapas kumar nayak

From: Parth Damor <parth@bhel.in>
Sent: 01 July 2019 12:53
To: tapaskumar@bhel.in
Cc: 'JATOTH BALU-PE, SD'; mkj@bhel.in; 'Gaurav Garg-PSMG'
Subject: 1x660 MW Panki TPS: Addition in Approved C&I vendor list

Dear Sir,

Kindly refer the trailing mail from UPRVUNL reg. the additions in approved C&I vendor list.

This is for your kind information and n.a. pls.

Kind Regards,
PARTH DAMOR

Dy. Manager (Power Sector-Marketing)

Phone : 011-66337856

Mobile: +91 9711678506

From: SEPPMM panki660 [mailto:se.panki660@gmail.com]
Sent: 01 July 2019 12:23
To: Parth Damor
Cc: s mukherjee; Iranna
Subject: Fwd: 1x660 MW Panki TPS: Addition in Approved C&I vendor list

Dear Sir,

Kindly refer trailing mail. In reference to the subject matter, it is to inform that siren and beam detector is acceptable from main contractor approved sources as an inspection category of CAT-III for Panki Project.

The C&I vendor list of addressable detectors (Multi Sensor, Photo & Heat Detector) (appearing at Sl. No. 4 in approved C&I vendor list) for fire alarm panel-microprocessor based is also acceptable also subject to item shall be supplied as per Panki Project technical specification/data sheet requirement.

Regards

A S Katiyar
EE,PPMM
UPRVUNL

----- Forwarded message -----

From: **s mukherjee** <soumyajitmukharjee@ntpc.co.in>

Date: Mon, Jul 1, 2019 at 10:37 AM

Subject: RE: 1x660 MW Panki TPS: Addition in Approved C&I vendor list

To: SEPPMM panki660 <se.panki660@gmail.com>

Cc: Nitin Gangwar <ngangwar@ntpc.co.in>, Iranna <iendigeri@ntpc.co.in>

Dear Sir/Madam,

With respect to trailing mail, please note the following:

NTPC recommends regarding acceptance of siren and beam detector from main contractor approved sources as an inspection category of CAT-III.

NTPC also recommends to follow the C&I vendor list of addressable detectors (Multi Sensor, Photo & Heat Detector) (appearing at Sl. No. 4 in approved C&I vendor list) for fire alarm panel-microprocessor based also subject to item shall be supplied as per Owner technical specification/data sheet requirement.

Thanks and regards.

Soumyajit Mukherjee

Deputy General Manager, NTPC Limited

CTF – Khargone & Project Manager – Panki Consultancy Project

Mob: 9650998670

From: SEPPMM panki660 <se.panki660@gmail.com>

Sent: Wednesday, June 26, 2019 4:03 PM

To: s mukherjee <soumyajitmukharjee@ntpc.co.in>; Iranna <iendigeri@ntpc.co.in>

Cc: Parth Damor <parth@bhel.in>

Subject: Fwd: 1x660 MW Panki TPS: Addition in Approved C&I vendor list

-----Email received from [External domain] from Internet. Actual Sender:-- se.panki660@gmail.com-----

Dear Sir,

Kindly refer trailing mail from BHEL regarding subject matter. May kindly review the additional C&I vendor list.

Regards

A S Katiyar

EE,PPMM

UPRVUNL

----- Forwarded message -----

From: **Parth Damor** <parth@bhel.in>

Date: Wed, Jun 26, 2019 at 11:26 AM

Subject: 1x660 MW Panki TPS: Addition in Approved C&I vendor list

To: SEPPMM panki660 <se.panki660@gmail.com>

Cc: <tapaskumar@bhel.in>, Gaurav Garg-PSMG <gaurav@bhel.in>

Dear sir,

Kindly note that C&I item named "FIRE ALARM PANEL -MICROPROCESSOR BASED" is not appearing in Panki C&I vendor list presently.

BHEL propose to follow the vendor list of "ADDRESSABLE DETECTORS (MULTI SENSOR, PHOTO & HEAT DETECTORS TYPE), INTERFACE UNITS & MANUAL CALL POINTS" (appearing at Sl. No. 4 in approved C&I vendor list; extract enclosed herewith) for the above mentioned item.

Major Equipment	QP Inspection Category	Proposed Sub Supplier	Place/Country	Approval Status
FIRE ALARM PANEL - MICROPROCESSOR BASED	II	NOTIFIER	USA	A
	II	TYCO	USA	A
	II	AUTRONICA	NORWAY	A
	II	SCHRACK	AUSTRIA	A
	II	EDWARDS	USA	A
	II	ESSER (HONEYWELL)	GERMANY	A

In addition to the above item, following items are proposed to be added in Main Contractor approved sources C&I items list:

Major Equipment	QP Inspection Category	Proposed Sub Supplier	PACKAGES
SIREN	III	Main Contractor Approved Sources	FDPS
BEAM DETECTOR	III	Main Contractor Approved Sources	FDPS

UPRVUNL is kindly requested to take up with NTPC and grant approval to BHEL upon the same.

Kind Regards,

PARTH DAMOR

Sr. Executive (Power Sector -Marketing)

Mobile: +91 9711678506

इस इलेक्ट्रॉनिक ट्रांसमिशन संदेश में दी गई जानकारी अर्थात ई-मेल और इस इलेक्ट्रॉनिक संदेश के साथ प्रेषित कोई अटैचमेंट केवल प्रेषिती (प्रेषितियों) के उपयोग के लिए हए और इसमें व्यक्ति विशेष के लिए, गोपनीय या विशेष रूप से अधिकृत जानकारी हो सकती हए यदि यह जानकारी आपके लिए नहीं हए तो आपको इस ई-मेल को प्रसारित, वितरित या कॉपी न करें। यदि आपको यह संदेश गलती से मिला हए तो आपको इस संदेश को नष्ट करना चाहिए और ई-मेल द्वारा प्रेषक को सूचित कर दें। ई-मेल ट्रांसमिशन सुरक्षित या त्रुटिरहित होने की गारंटी नहीं हए क्योंकि जानकारी ट्रांसमिशन के दौरान अवरुद्ध हो सकती हए, विकृत हो सकती हए, खो सकती हए, नष्ट हो सकती हए, देर से या अपूर्ण रूप में पहुंच सकती हए या वायरस से ग्रस्त हो सकती हए। इसलिए, ई-मेल और इसकी विषय-वस्तु (निर्दिष्ट त्रुटियों के साथ या उनके बगए) की जिम्मेवारी ई-मेल तैयार करने वाले/प्रेषक या बीएचईएल या उसके सहयोगियों

की नहीं होगी। इस ई-मेल में उल्लिखित विचार या राय, यदि कोई हो, प्रेषक के ही हैं। यह आवश्यक नहीं है कि ये बीएचईएल या इसकी सहयोगी कंपनियों के विचार या राय के साथ मेल खाएं। लक्षित प्राप्तकर्ता ई-मेल या इसकी विषय-वस्तु पर कार्यवाई करने से पहले वकालत संचार तंत्र के माध्यम से जानकारी या निहितार्थ को सत्यापित करवा सकते हैं।

चेतावनी: यद्यपि कंपनी ने यह सुनिश्चित करने के लिए कि इस ई-मेल में कोई वायरस मौजूद नहीं हो, काफी सावधानी बरती ह। फिर भी प्राप्तकर्ता यह जाँच कर लें कि इस ई-मेल और इसके अटैचमेंट्स में वायरस न हों। इस ई-मेल द्वारा संक्रामित किसी वायरस के कारण होने वाली किसी क्षति के लिए ई-मेल का प्रेषक या बीएचईएल जिम्मेदार नहीं हैं।

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Sub : Sub-Qualifying Requirements for the Fire Detection and Protection System

To satisfy the requirements specified in Clause No. 4.5 of Chapter 04, "Provenness", Volume II of Bidding Document, we furnish following details :

1.

We/ sub-vendor declare that we have designed, supplied, erected and commissioned atleast two (2) fire protection systems, each of Contract value not less than Rs.35.0 million or equivalent in foreign currency, (exchange rate applicable as on date of Techno-commercial Bid Opening) in industrial installations. Each of the above Fire Protection System comprise of

- a) fire hydrant system
- b) high velocity water spray (HVW) or medium velocity water (MVW) spray or sprinkler system.
- c) fire water pumping and pressurizing arrangement.

We further declare that the systems mentioned above have been designed to the recommendations of *Tariff Advisory Committee of India or Oil Industry Safety Directorate (OISD) or any other International reputed authority (like LPC-U.K. or NFPA - USA) and these systems are in successful operation for atleast two (2) years prior to date of Techno-commercial bid opening. The details of Fire Protection system executed by us are furnished below : -

Details pertaining to Technical Qualification of the Sub-vendor.

- Sl.No.	Description	Plant No. 1	Plant No. 2
-			

A. DATA OF FIRE PROTECTION SYSTEMS EXECUTED:
(To be filled up for contracts having order value not less than Rs. 35.00 million or equivalent in foreign currency (exchange rate applicable as on date of techno-commercial bid opening)

- 1. Client name and address
- 2. Name and Address of the plant/ installation

Signature of authorized signatory.....

Sl.No.	Description	Plant No. 1	Plant No. 2
3.	Whether Fire protection system executed is for industrial installation ?	Yes*/No*	Yes*/No*
4.	Date of order	.....	.....
5.	Date of commissioning	.....	.....
6.	Period of operation prior to the date of techno-commercial bid opening	.....	.....
7.	Value of the order in Rs. Million	.....	.....
8.	The Scope included :		
	a) Design	Yes*/No*	Yes*/No*
	b) Supply	Yes*/No*	Yes*/No*
	c) Erection	Yes*/No*	Yes*/No*
	d) Commissioning	Yes*/No*	Yes*/No*
9.	The fire protection system have been designed as per TAC/NFPA/OISD/LPC/any other International reputed authority (Please indicate the name of the authority)	Yes*/No*	Yes*/No*
10.	The above contract included :		
	a) Fire Hydrant system	Yes*/No*	Yes*/No*
	b) High velocity water spray (HVW) system	Yes*/No*	Yes*/No*
	c) Medium velocity water spray (MVW) System	Yes*/No*	Yes*/No*
	d) Sprinkler System	Yes*/No*	Yes*/No*

Signature of authorized signatory.....

Sl.No.	Description	Plant No. 1	Plant No. 2
	e) Fire water pumping and pressurizing arrangement	Yes*/No*	Yes*/No*
11.	Documentary evidence/certificate from client in support of above is enclosed	Yes*/No*	Yes*/No*

We further confirm that notwithstanding anything stated above, the Employer reserves the right to assess our / our Collaborator's / our Associate's / our Subsidiarie's / our Group Companies to perform the Contract, should the circumstances warrant such assessment in the overall interest of the Employer in line with QR requirement at Clause No. 4.5 of Chapter 04, "Provenness", Volume II

Note : (1) Continuation sheets of like size and format may be used as per Sub-vendor requirement and be annexure to this attachment.

* **Please Strike off whichever is not applicable.**

2.

We/ Sub-Vendor furnish the following details of the firm from whom the analogue addressable type fire alarm system is proposed to be supplied for this package.

We / sub - vendor further declare that the analogue addressable type fire alarm system proposed to be supplied for this package shall be sourced from a firm M/S_____who has supplied at least two (2) similar systems and these systems have been approved or listed by UL-USA / FM-USA / LPC-UK / similar agency and are in successful operation for atleast two (2) years prior to date of Techno-commercial bid opening. The details of the bid proposed firm are furnished below :

- Sl.No.	Description	Plant No. 1	Plant No. 2
1.	Name of supplier	.....	.....
2.	Address of supplier	.....	.....
3.	Experience details of supplier		
	a) Name of the client	.....	.....
		Signature of authorized signatory.....	

- | | | | |
|----|--|-------------------|-------------------|
| b) | Address of the client | ..... | ..... |
| c) | Address of the installation | ..... | ..... |
| d) | Type of the installation
(Industrial / commercial) | | |
| e) | Whether the installed system has
been approved by UL- USA/FM-
USA/LPC-UK/Similar agency ?
(please specify agency) | Yes*/No*
..... | Yes*/No*
..... |
| f) | Whether the installed system
has been listed by UL-USA/
FM-USA/LPC-UK / Similar
agency? (please specify agency) | Yes*/No*
..... | Yes*/No*
..... |
| g) | Date of order / award for
analogue addressable type
fire alarm system | | |

- Sl.No.	Description	Plant No. 1	Plant No. 2
h)	Date of commissioning of the above system	.....	.....
i)	Number of years for which the system is in operation prior to date of techno- commercial bid opening	.....	.....
j)	Documentary evidence/certificate in support of above system to be enclosed	.....	.....

* Please strike off whichever is not applicable.

Note : If a Sub-vendor proposed more than one firm for the supply of analogue addressable type fire alarm system, separate data shall be submitted in the above format for each of the proposed suppliers.

Signature of authorized signatory.....

3.

We / our sub-vendor furnish the following details of the firm from whom the inert gas fire extinguishing system is proposed to be supplied for this package.

We / our sub-vendor further declare that the Inert gas fire extinguishing system to be supplied under the package shall be sourced from an agency M/S_____ who has designed and supplied at least two (2) Inert gas total flooding fire extinguishing system each having a total risk Volume of atleast 1000 Cu.m. Further, we declare that these systems have been designed to the recommendation of Tariff Advisory Committee of India or any other international reputed authority (like LPC-U.K. or NFPA, USA) and are in operating condition for a period not less than two (2) years prior to date of Techno-commercial bid opening. The details of the bid proposed firm are furnished below :

- Name of the agent proposed for this Package by the bidder :

- Sl. No.	Description	Plant No. 1	Plant No. 2
-			
1.	Name of supplier	.....	.....
2.	Address of supplier	.....	.....
3.	Experience details of supplier		
	a) Name of the client	.....	.....
	b) Address of the client	.....	.....
	c) Address of the installation	.....	.....
	d) Type of the installation (Industrial / commercial), pl. specify	.....	.....
	e) Whether the installed systems have been designed to the recommendation of TAC-India or any other international reputed authority (like LPC- UK or NFPA - USA) (please specify agency)	Yes*/No* 	Yes*/No*

Signature of authorized signatory.....

- Sl. No.	Description	Plant No. 1	Plant No. 2
f)	Risk area protected using the above clean against has a volume of	Cu.M	Cu.m
g)	The total flooding gaseous fire extinguishing system has been designed by bidder.	Yes*/No*	Yes*/No*
h)	Date of order / award for total flooding inert gas fire extinguishing system	.....	.....
i)	Date of commissioning of the above system	.....	.....
j)	Numnber of years for which the system is in operation prior to date of techno-commercial bid opening	.....	.....
k)	Documentary evidence/certificate in support of above to be enclosed	.....	.....

Note: If a Sub-vendor proposed more than one firm for the supply of total flooding inert gas fire extinguishing system, separate data shall be submitted in the above format for each of the proposed suppliers/ agent.

Date : (Signature).....

Place : (Printed Name).....

(Designation).....

(Common Seal).....

* Please strike off whichever is not applicable.

Signature of authorized signatory.....

	CORPORATE QUALITY ASSURANCE SUB-VENDOR QUESTIONNAIRE
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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		

	CORPORATE QUALITY ASSURANCE SUB-VENDOR QUESTIONNAIRE
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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- List of qualified Welders List of qualified NDT personnel with area of specialization	Applicable / Not applicable Details attached at Annexure – F2.9 (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)												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Project/ package</td> <td style="width: 10%;">Customer Name</td> <td style="width: 30%;">Supplied Item (Type/Rating/Model /Capacity/Size etc)</td> <td style="width: 20%;">PO ref no/date</td> <td style="width: 20%;">Supplied Quantity</td> <td style="width: 10%;">Date of Supply</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>			Project/ package	Customer Name	Supplied Item (Type/Rating/Model /Capacity/Size etc)	PO ref no/date	Supplied Quantity	Date of Supply						
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												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Name:</td> <td style="width: 30%;"> </td> <td style="width: 15%;">Desig:</td> <td style="width: 30%;"> </td> <td style="width: 10%;">Sign:</td> <td style="width: 10%;"> </td> <td style="width: 10%;">Date:</td> <td style="width: 10%;"> </td> </tr> </table>			Name:		Desig:		Sign:		Date:					
Name:		Desig:		Sign:		Date:								

Company's Seal/Stamp:-