

VOLUME - IA

Technical Conditions of Contract (TCC) for Field Quality Assurance Engineer (FQAE) (Civil, Mechanical & Electrical) for Construction site works, Fabrication, Erection, commissioning and various phases of projects at different BHEL-HPEP Project sites


FOR

Heavy Power Equipment Plant (HPEP)
RCPURAM, HYDERABAD

BHARAT HEAVY ELECTRICALS LIMITED



Technical Conditions of Contract (TCC) for (FQAE)

 <p style="font-size: small; margin: 0;">Maharaja Company</p>	Technical Conditions of Contract (TCC) Heavy Power Equipment Plant (HPEP) DIVISION HYDERABAD	Ref No: HY/HPEP/SC-Projects/TCC/2025-26/FQAE/01		
		Rev. No. 01		
<p style="text-align: center; font-weight: bold; margin: 0;">COPYRIGHT AND CONFIDENTIAL</p> <p style="font-size: x-small; margin: 0;">The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company.</p>	<p style="font-weight: bold; margin: 0;">TECHNICAL CONDITIONS OF CONTRACT (TCC)</p> <p style="font-weight: bold; margin: 0;">FOR</p> <p style="font-weight: bold; margin: 0;">FRAME WORK AGREEMENT FOR PROVIDING FIELD QUALITY ASSURANCE ENGINEER (FQAE)</p>			
Revisions: Refer to record of revisions	Prepared By: Priyabrata	Checked By: Ambika Pr Dash	Approved By: Arif Naiyer	Date 15-04-2026

Technical Conditions of Contract (TCC) for (FQAE)

Sl. No.	Description	Page No
Volume-IA	Part-I: Contract specific details	
1	Project Information	5
2	Scope of Works	6-9
3	Qualification and Experience of Outsourced Field Quality Assurance Engineer (FQAE)	10-13
4	Other Conditions	14-16
5	Site Visit	17
6	Mode of operation & Distribution of this Framework Agreement (Rate Contract).	18
7	Time Schedule & Mobilization	19-20
8	Term of payments	21-22
9	Statutory regulations	23
10	HSE Guidelines	24
11	Taxes & duties	25-28
12	formats	29-32

**Volume IA
Part I
Contract specific details**

1.0 Project Information

INTROUCTION

1.1 BHARAT HEAVY ELECTRICALS LIMITED (BHEL) - A Maharatna company is a Government of India undertaking. BHEL is an integrated power plant equipment manufacturer and one of the largest engineering and manufacturing company of its kind in India engaged in the Design, Engineering, Manufacture, Construction, Testing, Erection and Commissioning of power plants in the country and abroad.

The intent of this tender is to finalize a frame work agreement for providing the services of qualified Field Quality Assurance Engineer (FQAE) at various ongoing and forth-coming industrial /defence/power projects of **BHEL HPEP Hyderabad Division**.

BHEL/HPEP/Projects department having office at Rcpuram, Hyderabad has been actively engaged in Erection & commissioning activities of Industrial /Defence/Power Projects.

Bidder is advised to visit the project site and appraise himself about the local conditions and infrastructure available in the area for fulfilling their commitments under the contract. BHEL will not admit any claims whatsoever on account of Contractor's non-familiarization of local conditions.

The intent of specification is to outsource the services of **Field Quality Assurance Engineer (FQAE)**

Providing Field Quality Assurance Engineer, hereafter mentioned as (FQAE), for effective implementation of Field Quality at various BHEL HPEP project Sites

Tentative requirements of Man months Project wise shall be as indicated in "**List of Projects with requirement**", attached with Tender Documents. The location and contact details of respective project sites is also indicated in **Annexure-A**.

Note: The requirement mentioned in Annexure-A is tentative and may vary as per site requirement or upcoming Projects/Contingencies, if any. BHEL HPEP reserves the right to increase or decrease the number of Man Month for referred services in Annexure-A. Man Month against each (FQAE), for projects indicated therein may have reassigned quantities increased or decreased as per requirement & deployment of (FQAE), shall be as per the site progress at discretion of BHEL. The list in Annexure-A is not exhaustive, new projects may add in or existing sites may be removed from list depending upon site status/ requirements.

Technical Conditions of Contract (TCC) for (FQAE)

2. SCOPE OF WORK: Providing services with manpower for Field Quality Assurance services (Civil, Mechanical & Electrical) for Construction site works, Buildings, Fabrication, Erection, pre-commissioning and commissioning various phases of projects at different BHEL-HPEP Project sites.

Scope of Work for Field Quality Assurance Services at project Sites:

Bidder/Agency shall provide Field Quality Assurance Engineers (FQAE) in the areas/ packages mentioned below and as specified elsewhere, at various BHEL Project sites.

The work of Field Quality Assurance services comprises of following areas:

- a. ALL CIVIL WORKS.
- b. FABRICATION & ERECTION OF STEEL STRUCTURES.
- c. ERECTION & COMMISSIONING OF MECHANICAL SYSTEMS SUCH AS BOILER & AUXILIARIES, POWER CYCLE PIPING, TURBINE, GENERATOR AND AUXILIARIES ETC.
- d. ERECTION & COMMISSIONING OF ELECTRICAL AND C&I SYSTEMS.
- e. ERECTION & COMMISSIONING OF BALANCE OF PLANT SYSTEMS SUCH AS WATER SYSTEM & ASSOCIATED ALL AUXILLARIES ETC.
- f. SUPPORT FOR PREPARATION OF FQP/INSPECTION TEST PLAN FOR ABOVE AREAS IF REQUIRED

2.1	CIVIL WORKS
	Civil Works shall consist of following Civil Structures/ Packages:- Development of Labour colony on leased land Micro grading, Construction of All Equipment Foundations (Utility Boiler Foundations, Chimney Foundation, DE aerator Foundations, BFP Foundations, FD Fan Foundations , DM water tank Foundation, FPS Foundations , GAs Conditioning Skid Foundation ,Pipe rack Foundations Foundation, etc., General Civil works (Cable Trenches, Paving, Roads, Drainage , etc.) i.e, Utility Boiler Foundation,, Paving, Cable Trenches, Roads, Drainages, Cable Trenches, Fencing, SRR UB Building : Size : 60 meter X 30 meter ,Substation Building ,DV Sheds and all other buildings ,Barricading works etc.
2.1.1	Scope of the work for the FQAEs deployed by the Contractor, under Civil Works shall comprise of followings mainly: - Inspection and Sample checking of input materials (consisting mainly of steel, cement, sand, stone chips, bricks etc.) as per Procedures/ Field Quality Plans for Civil Works approved by BHEL/ Client or IS codes/ standards. This shall include preparation of pour card/cube test/site protocols & other civil quality documents and witnessing field tests, site work inspection /materials inspection and verification of test certificates etc

Technical Conditions of Contract (TCC) for (FQAE)

2.1.2	Inspection of the various checks/ tests to be performed by respective sub-Contractors of BHEL at Project sites as per approved Field Quality Plans approved by BHEL or Client/ relevant IS codes/ any other applicable documents.
2.1.3	Preparation/Review of inspection & test reports of the checks which are under witness category as per FQP and conducting periodical/ as required by BHEL Engineer In-charge or his representative, quality surveillance audits at various stages of erection and finally on completion of work as per the approved Field Quality Plan.
2.1.4	Preparation/Collection and compilation of various log sheets/ test results/ reports of checks performed as at Sr. No. 2.1.1, 2.1.2, & 2.1.3, certification/ authentication of test results/ reports, and submitting to Client in the format/s mutually agreed between BHEL & Client.
2.1.5	FQAEs shall ensure at all times, timely submission of required inputs to BHEL to ensure valid calibration of monitoring/ measuring instruments & devices and testing equipment, proper documentation and record keeping of Inspection data, log sheets, protocols, test certificates etc. as per BHEL quality systems and as per observations/ non-conformance reports released by various Auditors viz. Internal, External Auditor/ CQ Auditor etc.
2.1.6	Facilitate Customer Engineers for above mentioned Quality Checks at S. No. 2.1.1 & 2.1.2.
2.1.7	Uploading log sheets/MME's details in online system regularly if required.
2.1.8	To perform inspection/audit of BHEL site store are per instruction from BHEL Quality In charge/Construction Manager.

2.2	FABRICATION & ERECTION OF STEEL STRUCTURURES: Scope of work for the FQAEs deployed by the Contractor under this area shall mainly comprise of the followings:
2.2.1	Inspection and Sample checking of input materials (consisting mainly of steel plates/ steel sections/ steel materials etc.) as per Procedures/ Field Quality Plans for Fabrication & Erection of Steel Structures approved by BHEL/ Client or IS codes/ standards. This shall include inspection of materials after receipt at site and verification of test certificates, Welder test, welder cards, electrodes, etc. RT, UT, SR, liasioning for NDT, DP test, grouting etc.
2.2.2	Preparation/Review of inspection & test reports of the checks which are under witness category as per FQP and conducting periodical quality surveillance audits at various stages of erection and finally on completion of work as per the approved Field Quality Plan.
2.2.3	Preparation/Collection and compilation of various log sheets/ test results/ reports of checks performed as at Sr. No. 2.2.1 & 2.2.2, certification/ authentication of test results/ reports, and submitting to client in the agreed format.
2.2.4	Conducting periodical quality surveillance audits at the site office of sub-Contractors of BHEL to ensure valid calibration of monitoring/ measuring instruments & devices and testing equipments, Proper documentation and record keeping of Inspection data, log sheets, protocols, test certificates etc. as per BHEL quality systems.
2.2.5	Facilitate Customer Engineers for above mentioned Quality Checks at S.No. 2.2.1 & 2.2.2.
2.2.6	Uploading log sheets/MME's details in online system regularly.
2.2.7	To perform inspection/audit of BHEL site store are per instruction from BHEL Quality In charge/Construction Manager.

Technical Conditions of Contract (TCC) for (FQAE)

2.3	ERECTION & COMMISSIONING OF BOILER & AUXILIARIES, POWER CYCLE PIPING ETC.
2.3.1	Boiler & Auxiliaries mainly consists of Boiler Supporting Structures, Pressure Parts, , Ducts & Dampers/ Gates, Rotating Machines like Forced Draft Fan, Induced Draft Fan, Primary Air Fan, Feeders, Air Pre-heater, Valves & Soot Blowers, Fuel Firing System, and HighPressure Piping, Power Cycle Piping, LP & underground piping, Insulation etc.
	Scope of the work for the FQAEs deployed by the Contractor, under this package shall comprise mainly of following activities: -
2.3.2	Inspection for the checks to be performed e.g. Welder test, welder cards, electrodes, etc., RT, UT, SR, MPI, DP test, grouting dimensional checks during erection & commissioning etc. on the equipment/ systems by the sub-Contractor of BHEL as per applicable Procedures/ Field Quality Plans for Erection & Commissioning approved by BHEL/ Client.
2.3.3	Preparation/Review of inspection & test reports of the checks which are under witness category as per FQP and conducting periodical quality surveillance audits at various stages of erection and finally on completion of work as per the approved Field Quality Plan.
2.3.4	Preparation/Collection and compilation of various log sheets/ test results/ reports of checks performed as at Sr. No. 2.3.2 & 2.3.3 certification/ authentication of test results/ reports, and submitting to client in the agreed format.
2.3.5	Conducting periodical quality surveillance audits at the site office of sub-Contractors of BHEL to ensure valid calibration of monitoring/ measuring instruments & devices and testing equipments, Proper documentation and record keeping of Inspection data, log sheets, protocols, test certificates etc. as per BHEL quality systems.
2.3.6	FQAEs are expected to ensure turn out of Quality requirements in respective equipment/ systems by way of close monitoring & involving in process effectively. Preparing welding schedule, as build Dwg etc & submission for approval .
2.3.7	Uploading/entry of weld log in BHEL's WPMS system on daily basis if required.
2.3.8	Facilitate Customer Engineers for above mentioned Quality Checks at S.No. 2.3.2 & 2.3.3.
2.3.9	Uploading log sheets/MME's details in online system regularly f required.
2.3.10	To perform inspection/audit of BHEL site store are per instruction from BHEL Quality In charge/Construction Manager.
2.4	ERECTION & COMMISSIONING OF ELECTRICAL and C & I SYSTEMS: Electrical Systems mainly consist of Power Transformers, Auxiliary Transformers, LT Switchgears, HT Switchgears, LT Bus Ducts, HT Bus Ducts, HT Motors and Switchyard; Electrical, C&I systems for Boiler, TG and Auxiliaries and BOPs etc. C & I System mainly consists of field mounted instruments like transducers, transmitters, gauges etc., analysers, control valves, electrical & pneumatic actuators, DDC/ PPC based control panels etc. Scope of the work for the FQAEs deployed by the Contractor, under these systems shall comprise mainly of following activities: -

Technical Conditions of Contract (TCC) for (FQAE)

2.4.1	Inspection for the checks to be performed on the equipment/ systems by the sub- Contractor of BHEL as per applicable Procedures/ Field Quality Plans for Erection & Commissioning approved by BHEL/ Client.
2.4.2	Preparation/Review of inspection & test reports of the checks which are under witness category as per FQP and conducting periodical quality surveillance audits at various stages of erection and finally on completion of work as per the approved Field Quality Plan.
2.4.3	Preparation/Collection and compilation of various log sheets/ test results/ reports of checks performed as at Sr. No. 2.4.1 & 2.4.2 certification/ authentication of test results/ reports, and submitting to client in the agreed format.
2.4.4	Conducting periodical quality surveillance audits at the site office of sub-Contractors of BHEL to ensure valid calibration of monitoring/ measuring instruments & devices and testing equipments, Proper documentation and record keeping of Inspection data, log sheets, protocols, test certificates etc. as per BHEL quality systems.
2.4.5	Facilitate Customer Engineers for above mentioned Quality Checks at Sr.No. 2.4.1 & 2.4.2.
2.4.6	Uploading log sheets/MME's details in online system regularly.
2.4.7	To perform inspection/audit of BHEL site store are per instruction from BHEL Quality In charge/Construction Manager.

2.5	ERECTION & COMMISSIONING OF TURBINE, GENERATOR AND AUXILIARIES: This package mainly consists of Steam Turbine,Generators, Heat Exchangers, Pumps, and LP Piping, Condenser, Heaters, De-aerator, Insulation etc. Scope of the work for the FQAEs deployed by the Contractor, under this package shall comprise mainly of following activities: -
2.5.1	Inspection for the checks to be performed on the equipment/ systems by the sub-Contractor of BHEL as per applicable Procedures/ Field Quality Plans for Erection & Commissioning approved by BHEL/ Client.
2.5.2	Preparation/Review of inspection & test reports of the checks which are under witness category as per FQP and conducting periodical quality surveillance audits at various stages of erection and finally on completion of work as per the approved Field Quality Plan
2.5.3	Preparation/Collection and compilation of various log sheets/ test results/ reports of checks performed as at Sr. No. 2.5.1 & 2.5.2, certification/ authentication of test results/ reports, and submitting to client in the agreed format.
2.5.4	Conducting periodical quality surveillance audits at the site office of sub-Contractors of BHEL to ensure valid calibration of monitoring/ measuring instruments & devices and testing equipments, Proper documentation and record keeping of Inspection data, log sheets, protocols, test certificates etc. as per BHEL quality systems.
2.5.5	Facilitate Customer Engineers for above mentioned Quality Checks at S.No. 2.5.1 & 2.5.2.
2.5.6	Uploading log sheets/MME's details in online system regularly.
2.5.7	To perform inspection/audit of BHEL site store are per instruction from BHEL Quality In charge/Construction Manager.

Technical Conditions of Contract (TCC) for (FQAE)

3.0	Qualification and Experience requirements of Contractor's Personnel
3.1	General Requirements
3.1.1	Age of FQA Engineers shall not be more than 45 years, on date of submission of CV to BHEL
3.1.2	Relevant Experience: Only experience in Construction or Field Quality Assurance (FQA) shall be considered for FQA Engineers. Internship or training periods, and experience outside these domains, will not be counted.
3.1.3	Educational Qualification: FQA Engineers must possess a degree or diploma in Engineering in respective area of Mechanical, Civil, or Electrical disciplines, based on the relevant scope of work.
3.1.4	Health and Fitness: FQA Engineers must be in good physical health and medically fit for

	deployment at project sites, considering the nature and demands of the job.
3.1.5	Employment Condition: All FQA Engineers deployed at site must be on the Contractor's payroll for the entire duration of the contract.
3.1.6	Digital Proficiency: FQA Engineers must have basic computer knowledge for data entry, analysis, report generation, and digital documentation.
3.1.7	In general, the experience of FQAEs shall be in the area of Field Quality Assurance in the areas pertaining to scope as mentioned at clause numbers 2.0 above.
3.1.8	Good knowledge of power plant products, Field Quality Plans, codes, standards, statutory requirements, inspection and test procedures of Power Plant equipment and systems mentioned at clause 2.0 above including materials, various type of welding and their inspection & testing etc.
3.1.9	Undertaking inspection of installation of power plant equipment's (like boilers & auxiliary systems, FGD, turbines, generators, piping, electrical switch boards/ panels, transformers, motors, cabling, C & I Systems, Civil & Structural works etc.) in the areas as given at 2.0 above

Technical Conditions of Contract (TCC) for (FQAE)

3.2	Area-Specific Requirements:
3.2.1	<p>Mechanical Discipline:</p> <ul style="list-style-type: none"> • NDT Certification: Mechanical FQA Engineers must possess valid Level-II NDT certification (VT, RT, UT, DPT & MPI) issued by ASNT/ISNT or any certified body/individual. • Experience: Graduate Engineers shall have minimum 3 years' experience and Diploma holders shall have minimum 5 years' relevant experience in quality control during erection/installation of mechanical systems in any industrial project such as Power Plant, Refineries, cement plant, Any defence project etc. Mechanical systems shall include Structures/ Pressure Parts/ piping/ Fans, /Pumps/ Mills/ Turbine/ condenser/ any rotating equipment's etc. including Process control during welding, Hyderotest, Heat Treatment and NDT of mechanical components. Preparation of welding schedule, as build drawing & associated commission activities. • Technical Competence: Should be capable of interpreting mechanical drawings, quality plans, and technical datasheets. Familiarity with welding processes, heat treatment, and NDT procedures is essential.
3.2.2	<p>Electrical Discipline:</p> <ul style="list-style-type: none"> • Experience: Graduate Engineers shall have minimum 3 years' experience and Diploma holders shall have minimum 5 years' relevant experience in quality control of electrical systems during erection / Installation / commissioning in any industrial project such as Power Plant, Refineries, cement plant, Any defence projects etc. Electrical systems shall include transformers/ generators/ motors/ switchboards/ control and instrumentation systems/ power/control cabling etc. or any combination thereof. • Technical Competence: Should have a clear understanding of electrical drawings, SLDs, and schematic diagrams. Familiarity with SCADA, DCS, protection relays, and metering systems is preferred

Technical Conditions of Contract (TCC) for (FQAE)

3.2.3	<p>Civil Discipline:</p> <ul style="list-style-type: none">• Experience: Graduate Engineers shall have minimum 3 years' experience and Diploma holders shall have minimum 5 years' relevant experience in quality assurance during Civil construction activities in any infrastructure or industrial project such as Power Plant, Refineries, cement plant, any defence projects etc. Civil construction activities shall include earthworks/ piling/ RCC/ reinforced steel/ roads/ buildings/ chimneys/ cooling towers/Tanks etc. or any combination thereof.• Technical Competence: Should be well-versed with relevant Indian Standards (IS) and IRC codes applicable to civil construction. Experience in testing soil, concrete, and other construction materials is required. Exposure to power projects, refineries, or large infrastructure is desirable.
-------	---

Note: CV Submission and Approval: The deployment of above manpower by the Contractor shall be subject to submission of credentials, including identity proof, address proof, educational/professional qualifications, experience, Certification (if required) through CV and health certificates, in prescribed formats (Annex I & II) of each of the Contractor's personnel to HQ/ issuing the WO, project site incharge and obtaining acceptance/ approval from department issuing the WO/ Customer in this regard. Submitted CV may be verified by BHEL as deemed fit. For Technical competence, BHEL may opt of Interview before approval. Approval must be obtained from the concerned BHEL project site/Customer. Delay in submission of CVs may lead to delay in deputation of FQAs and attract penalties as per Clause 7.3

Technical Conditions of Contract (TCC) for (FQAE)

3.2.4_SITE WISE TANTATIVE DEPLOYMENT PLAN OF (FQAE) (Annexure-A)

List of Tentative Projects with requirement"- Annexure -A						
Job: Frame work agreement for Providing Field Quality assurance engineer (FQAE) at various BHEL/HPEP Projects Sites						
Quality Engineer						
S N	Description of Works	Field Quality assurance engineer Category (Civil/Mech/EI ec)	Manpowe r Requirem ent	Durati on in Man month s	Total Man months (approx)	Address of the Project
Ongoing Projects						
1	1 × 250 MW STG Package – JSW Dolvi, Maharashtra	Mechanical FQA Engineer	1	13	13	Dolvi, Pen, Raigad District of Maharastra state, India
2	1 × 265 TPH Boiler – BPCL, Bina	Civil FQA Engg	2	20	40	BPCL, BPREP Project Site- Bina, M.P
		Mechanical FQA Engineer	2	17	34	BPCL, BPREP Project Site- Bina, M.P
		Electrical FQA Engineer	1	17	17	BPCL, BPREP Project Site- Bina, M.P
3	Naval Dockyard Projects – Visakhapatn am	Civil FQA Engg	1	19	19	Weapon equipment Depot, Gun gate Naval Dock yard, 9 IRSD Area, kancharapalem, Visakhap atnam-530008, A.P
4	Naval Dockyard Projects – Mumbai	Civil FQA Engg	1	19	19	Naval Dock yard, SBS Road Mumbai, Muster gate, M.H
Total Manmonths			8		142	

Note: The quantities/Man-Month indicated in the BOQ is approximate only and is liable for variation. Payment will be as per actual quantity executed as certified by BHEL Engineer.

4.0 Other Conditions

4.1 Sub-letting of jobs within the agreed scope of work, in any manner is not permitted.

4.2 FQAE shall be governed by 'Confidentiality' clause. They shall not, in any manner, misuse the data/ information.

4.3 All Manuals, specifications and other relevant document/ data provided to FQAE, for undertaking relevant tasks, shall be returned to BHEL after completion of job/ completion/ termination of contract. Such documents shall not be used by the FQAE for any purpose other than for the designated task.

4.4 All Quality Plans, data/ findings, inspection and other reports, results, etc. generated and used by the FQAE shall be the property of BHEL. These cannot be published/ utilized or taken away by the FQAE, Agency or any employee of the Agency.

4.5 FQAE shall be fully responsible for the tasks allotted to/ undertaken by them, authenticity of the reports/results etc. They shall prepare documents, witness/ undertake assessments and submit the documents/ reports to BHEL in time without hindrance of work.

4.6 Credentials of FQAE shall be verified and approved by BHEL HPEP and/ or its customer prior to their deployment. Bidder has to submit following documents for approval of FQAE, during bid and after award of contract, if:

- 1) CV/Resume with educational background and experience, in PDF format/hard copy only, attested by Bidder authorize person and also self-attested by FQAE himself (MS Word/ .doc / other editable format will not be accepted)
- 2) Self-attested Copy of Experience Certificate, if any
- 3) Copy of Degree/Diploma Certificate (Full time course only)
- 4) The Bidder shall fill the Annex-1 &II format for "Particulars of FQAE",

During the submission of bid, Bidder should also agree for the following:

1. BHEL can seek the following during approval of FQAE if contract is awarded to the bidder, before deployment
 - a) Verification of original records for qualification and Experience details of FQAE as per clause No. 2
 - b) Interview of FQAE, may be conducted by BHEL, if required.
3. BHEL may conduct physical verification of FQAE as per Clause No 2
4. BHEL may seek additional Information to assess the capability and capacity of FQAE during the contract.

4.7 FQAE at BHEL HPEP sites shall work under BHEL Engineers. They shall administratively report to Construction Manager of respective project site.

4.8 Reasonable office space with furniture for proper functioning of the Agency's FQAE will be provided by BHEL . Accommodation and transportation at sites to FQAE shall be on bidder responsibility.,

Technical Conditions of Contract (TCC) for (FQAE)

Normally, the role of FQAE shall be the entire project site as per clause no 1.1 Project Information/Annexure-A

4.9 Each man day shall consist of 08 (eight hours) working hours excluding lunch break. However, at times work may continue over extended duty hours or on Sundays and holidays and services of FQAE may be required.

FQAE shall follow the working hours, weekly off and holidays as per norms & holiday list of BHEL site office where they are deployed.

In case FQAE go on long leave exceeding 10 days, the Agency will have to make suitable alternative arrangements for deployment of suitable personnel during absence. The travel expenses of such replacement FQAE shall be in the scope of agency.

4.10 PPEs for FQAE shall be arranged by Agency.

4.11 It is expected to post the person and make him available at respective sites on intimation by BHEL as per the mobilization plan. In any case posting should be affected within fifteen days. However, in case where FQAE is on leave for more than 10 days, his replacement/ substitution is straightaway necessary.

4.12 Agency shall submit monthly report to Project head BHEL HPEP, indicating cumulative deployment of FQAE and other details as may be required by BHEL.

4.13 BHEL reserves the right to regulate strength of deployment of Agency's manpower as per requirements and/ or to short-close/ terminate the contract. In such eventuality, 15 days' notice shall be given by BHEL to the Agency and payment shall be made for the completed months or part thereof on pro-rata basis. No other compensation will be given by BHEL.

4.14 Definitions: One month: 26 working days in a calendar month, Prorate one-man day: 1/26-man month. One Man-day: 8 Hrs. working (Excluding Site Lunchtime)

Note: - In case if any month having less than 26 working days, in that case total number of working days at sites shall be consider as one month

4.15 In case the performance of any FQAE is found to be unsatisfactory, his services shall be discontinued by BHEL and no payment shall be made against deployment of such unacceptable HSE personnel, from the date FQAE has been notified as unsatisfactory. Replacement of such persons will have to be arranged by the Agency within 15 days.

4.16 In case any FQAE found to indulge in malpractice/s, their services will be terminated with immediate effect without giving any notice.

4.17 The Agency shall be responsible for medical expenses & life insurance for deployed FQAE. It shall be the sole responsibility of Agency to take insurance policies for the FQAE against risks of accidents and injury while at work and make compensation as per applicable rules and regulations prevalent in the area. Copy of insurance policy shall be submitted to BHEL before deployment.

Technical Conditions of Contract (TCC) for (FQAE)

4.18 If due to negligence and/ or non-observance of safety and other precautions by FQAE, , any accident/ injury occurs to any other person(s)/ public, the Agency shall bear compensation and other liabilities as decided by appropriate authority.

4.19 Agency performance shall be monitored & communicated over mail , BHEL reserves the right to terminate the contract or demand for replacement, in case FQAE performance is not satisfactory.

4.20 **Insurance:** Insurance of manpower deployed by the agency, shall be insured by the agency itself. Other conditions of Insurance shall be as per relevant clause of GCC.

4.21 **Health, Safety & Environment:** Vendor has to follow HSE norms applicable at project site during execution of entire contract period for the Safety of the deputed personnel

4.22 **Compliance:** Successful bidder shall ensure that its employees, servants, consultants and agents abide by all Applicable Law, relating to the performance of the Work and by all rules and regulations of those Governmental Authorities and persons who have control or jurisdiction over the Site (including the timely payment of any and all fees, assessments, or other governmental charges and registrations with relevant agencies or other Governmental Authorities required in connection therewith) and with the terms and conditions of any Authorizations.

4.23 Successful bidder shall furnish to the BHEL / Employer, promptly upon request, such information concerning its employees, consultants, servants and agents as BHEL / Employer may be required to furnish to any applicable Governmental Authorities

4.24 Bidder shall provide its FQAE raincoat, gumboot, safety shoe, goggles, binocular, torchlight and enough other welfare support as they will be required to work at odd hours and face adverse climate at site. No additional payment will be made by BHEL on account of that

5.0 Site Visit

The Bidders are advised to acquaint themselves with the sites for capturing general working conditions at any given site by visiting either/ both of the project Sites mentioned in the tender elsewhere before quoting. However, conditions may vary at new Projects most likely in the States as mentioned in Clause no1.1 project Information/ Annexure-A

6.0 Mode of operation & Distribution of this Framework Agreement

6.1 After acceptance of the L-1 bidder's offer by the competent authority, a **Letter of Intent (LOI)** shall be issued by BHEL for entering into a Framework Agreement (FA) with a validity period of **24 months**. The successful L-1 bidder shall submit a **Security Deposit equivalent to 5% of the total Framework Agreement value**, calculated based on the Total Man-Months (as detailed in *Annexure-A*) within 15 (Fifteen) days of issue of LOI. After receipt of security Deposit, BHEL will invite the successful L-1 bidder for signing the "Framework Agreement" on non-judicial stamp paper of appropriate value to be purchased by the successful L-1 bidder at their own cost. The provisions of **Clause No. 1.10 of GCC** shall be applicable for submission of the Security Deposit.

6.2 During the validity period of the Framework Agreement or any extension thereof, BHEL shall issue separate **Letters of Award (LOA) / Work Orders (WO)** to the successful L-1 bidder for part or full Man-Month quantities as the case may be, based on site-specific requirements. "General Conditions of Contract (GCC)", "Special Conditions of Contract (SCC)", "Forms & Procedures" shall be applicable for each "**Work Order/LOA**" placed during the currency of Framework Agreement period. The **quantity and duration** under each LOA/WO shall be determined based on project-specific requirements and may be issued by BHEL/HPEP during the validity of the Framework Agreement, including any extension thereof.

6.3 Each **Work Order / LOA issued under the Framework Agreement** shall be treated as an **independent contract**, with its own defined contract period as mentioned in respective LOA/WO. The terms & conditions of each of these contracts shall be governed by "GCC", "SCC", "TCC", "NIT" except of clause no. 1.10 of GCC.

6.4 BHEL reserves all rights to operate this contract as per project requirements and its sole discretion.

6.5 FQAE shall be mobilized/ demobilized progressively depending on BHEL project site's requirement which shall be intimated by Construction Manager

6.6 Schedule is given for total deployment covering requirement at various projects together. However, actual man month deployed at project sites may vary to any extent. **The quoted man-month rate shall remain firm throughout the period of Contract.**

6.7 **Quantity variation:** The quantities given in the contract are tentative and may change to any extent (both in plus side and minus side). No compensation becomes payable for variation of the final executed contract value in any side (Plus or Minus). Also, no compensation becomes payable in case the contract gets partially executed/ short closed/ terminated/ work withdrawn under Rights of BHEL mentioned in Clause 2.7 of GCC. There shall not be any compensation for any variation of quantities of man months.

6.8 Each of these FQAE shall be deployed as per instruction of BHEL and shall coordinate with all sub-agencies for facilitating implementation of Quality system.

7.0 Time Schedule & Mobilization

7.1 Contract Period

The period of Frame work agreement is for 24 months from the date of “**letter of award**”. However, this Frame work agreement may be extended for further period of up to 03 (Three) Months at the discretion of BHEL.

7.2 Mobilization

FQAE shall be mobilized within 15 days from the date of receipt of clearance/ intimation from BHEL against respective work orders. Following will be the mode for deployment of FQAE at site.

- 7.2.1 Intimation for deployment of FQAE shall be sent to RCM of respective project.
- 7.2.2 On receipt of intimation for FQAE deployment, Contractor shall submit credentials of each FQAE to respective site In-charge of BHEL as given in intimation letter and copy shall be forwarded to Subcontracting-Projects/HPEP,Hyderabad.
- 7.2.3 The Contractor shall obtain acceptance/ approval from respective Site In-charge of BHEL for credentials of each FQAE. Deployment of FQAE shall be subject to acceptance/ approval of credentials of FQAE by BHEL site in-charge.
- 7.2.4 Contractor shall deploy FQAE at site within 15 days of the intimation as at Sr. No. 7.2.1 above after obtaining acceptance/ approval as at Sr. No. 7.2.3.

7.3 PENALTY

- 7.3.1 After submission of credential, the agency shall obtain acceptance/ approval from respective Site In-charge/Quality official at site. BHEL site Quality official shall issue acceptance/ approval to the agency. Then Agency shall deploy FQAE within 30 days from work order issuing date. In case agency failed deploy FQAE, for any reason what so ever, within 30 days from issue work order then penalty of Rs 250/- per man-day shall be applicable from 31st day of date of such work order to the concern agency. In case agency fail to deploy FQAE even after 2 months of issue of work order then Rs. 100/- per man days will be added with penalty of Rs. 250/- per man-day, in each month up to deployment of FQAE. Details of penalty-imposed month wise mention in below table as an example for reference purpose.

Technical Conditions of Contract (TCC) for (FQAE)

Work Order Issued Date	Agency Name	Scheduled Deployment of FQAE date	Penalty imposed from date	Penalty amount
WO 01 dtd. 10.05.2026	XYZ	10.06.2026	11.06.2026	250 per man days
			11.07.2026	350 per man days
			11.08.2026	450 per man days
			11.09.2026	550 per man days
			11.10.2026	650 per man days
So on...				

7.3.2 Against Each Work order, FQAE is obliged to fill the Joining Format once reach at BHEL site office & the same filled formant shall be submitted along with its respective RA Bill.

7.3.3 In case FQAE go on resignation/ long leave exceeding 10 days, the Contractor will have to make suitable alternative arrangements for deployment of suitable personnel during the absenteeism. **In case substitute FQAE is not deployed by the agencies within 30 days (hereafter known as Period1) from the date of absenteeism of FQAE deployed at site, BHEL will impose penalty from (Period1+1) th day onwards @ Rs. 250 per man-day**

Period1 indicated above shall be 30 days, for 3 times only, at a single project/ Site location. After 3 times, Period1 shall be 15 days

7.3.4 Penalty shall be deducted on pro-rata basis from the available amount of agency with BHEL in any form including earliest monthly bill or Security deposit (SD) or from any sites where agency is working.

Note: - The aforesaid LD/penalty (total against delayed deployment and replacement delay) shall be limited to 10 % of contract value (i.e. Respective Work Order value).

8.0 Terms of Payment

8.1	Based on actual man months deployed and certification by Construction Manager for services at site, monthly payment will be made from the date of submission of complete RA bills subject to verification.
8.2	The contractor shall submit his monthly RA bills with all the details required by BHEL on specified date every month covering progress of work in all respects and areas for the previous calendar month in prescribed format. It shall be the responsibility of Agency to obtain and submit certificate from BHEL authority regarding deployment of FQAE (attendance statement).
8.3	Period between 1st day of the last month to last day of that month shall constitute one month.
8.4	The Agency shall preferably submit the monthly bills along with certification and Proof of Salary slips for all the FQAE deployed at site (as mentioned above) latest by 7th of succeeding month to respective BHEL-HPEP project site
8.5	It is the responsibility of the contractor to make his own arrangements for making timely payments towards labour wages, statutory payments, outstanding dues etc. and other dues in the meanwhile. Deductions, if any, shall be made by BHEL from the monthly bill and payment shall be made subject to correctness and completeness of the bill.
8.6	The RA bill payment shall be made as per Cl no 2.23 of GCC. BHEL shall release payment through Electronic Fund Transfer (EFT)/RTGS. In order to implement this system, Contractor to furnish details pertaining to his Bank Accounts where proceeds will be transferred through BHEL's banker, as per prescribed formats: Note: BHEL may also choose to release payment by other alternative modes as applicable
8.7	Bill Certifying Authority shall be the Construction Manager of the Site/BHEL Engineer. Any change in the paying Authority shall be intimated to the Contractor accordingly. However, schedule of regular disbursement of payment to FQAE shall be ensured by agency irrespective of release of payment from BHEL & no delay in disbursement of salary to FQAE on this ground shall be acceptable.
8.8	Secured Recoverable Advance : Secured Recoverable Advance is not payable in this contract. As such cl no.: 2.13 of GCC is not applicable.
8.9	Price Variation Clause/ Revision of Rates : The accepted rates shall remain firm throughout the execution/agreement period including extension period (if any) and no escalation/ revision shall be payable. As such cl no.: 2.17 of GCC shall not be applicable.
8.10	Overrun Compensation: Overrun Compensation not applicable to this contract. As such cl no.: 2.12 of GCC is not applicable.

Technical Conditions of Contract (TCC) for (FQAE)

8.11	<p>Following are the Document shall be submitted along with RA Bill. (A) Joining Format/ details of FQAE (as applicable). (B) Absentee's statement. (C) Any other statutory document as mentioned below, as per applicability of Contract if any GST Complied Invoice of the work done as per approved BBU. WAM -6 for RA Bill. Jointly signed Measurement sheet. Power of Attorney before submission of Bill. Validity of Bank Guarantees as applicable under the contract.</p> <p>HR/IR compliance documents:</p> <ol style="list-style-type: none">i. Wages payment sheet as per applicable minimum wages.ii. Proof of PF contribution submission.iii. Proof of ESI/ WC contribution submissioniv. Proof of Bonus payment as per Bonus Act if applicable.v. Proof of EL payment if applicable.vi. Any other statutory document if applicable
------	---

Note : Payment shall be made based on actual deployment of FQAE at sites (after deduction of penalty in case of non-deployment).

9.0 Statutory Regulation

INTER-STATE MIGRANT WORKMEN ACT, 1979 (IN CASE BIDDER ENGAGE MANPOWER FROM OTHER STATE)

In case any portion of work involves inter-state migrant workers, then compliance to the above titled Acts as applicable shall be ensured by the contractor and contractor shall obtain license and deposit the cess under the Act. In the circumstances, it may be ensured as under:-

It shall be the sole responsibility of the contractor in the capacity of employer to forthwith (within a period of 15 days from the award of work) apply for a license to the Competent Authority under ISMW Act as applicable and obtain proper certificate thereof by specifying the scope of its work. It shall also be responsibility of the contractor to furnish a copy of such certificate of license / permission to BHEL within a period of one month from the date of award of contract.

It shall be the sole responsibility of the contractor as employer to ensure compliance of all the statutory obligations under these acts and rules including that of payment / deposit of cess as per the applicability under above referred Acts within a period of one month from the receipt of payment.

It shall be the responsibility of the sub-contractor to furnish the receipts / challans towards deposit of the cess together with the number, name and other details of beneficiaries (building/Inter-state Migrant workmen) engaged by the sub-contractor during the preceding month.

It shall be the absolute responsibility of the sub-contractor to make payment of all statutory payments & compensations to its workers including that is provided under the Workmen's Compensation Act, 1923.

10.0: HSE (Health, Safety, Environment) and PPE (personal Protective Equipment) Guidelines

- 1 Contractor shall follow all the HSE guidelines as mentioned chapter IX off SCC.
- 2 In case of any dispute/ contradiction, BHEL /respective project site customer HSE rules and guidelines shall prevail.

Technical Conditions of Contract (TCC) for (FQAE)

11.0 Taxes and Duties

11.1	<p>The contractor shall pay all (save the specific exclusions as enumerated in this clause) taxes, fees, license, charges, deposits, duties, tools, royalty, commissions, other charges, etc. which may be levied on the input goods & services consumed and output goods & services delivered in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes/duties, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.</p> <p>However, provisions regarding GST on output supply (goods/service) and TDS/TCS as per Income Tax Act shall be as per following clauses.</p>
11.2	GST (Goods and Services Tax)
11.2.1	<p>GST as applicable on output supply (goods/services) are excluded from contractor's scope; therefore, contractor's price/rates shall be exclusive of GST. Reimbursement of GST is subject to compliance of following terms and conditions. BHEL shall have the right to deny payment of GST and to recover any loss to BHEL on account of tax, interest, penalty etc. for non-compliance of any of the following condition.</p>
11.2.2	<p>The admissibility of GST, taxes and duties referred in this chapter or elsewhere in the contract shall be limited to direct transactions between BHEL & its Contractor. BHEL shall not consider GST on any transaction other than the direct transaction between BHEL & its Contractor.</p>
11.2.3	<p>Contractor shall obtain prior written consent of BHEL before billing the amount towards such taxes. Where the GST laws permit more than one option or methodology for discharging the liability of tax/levy/duty, BHEL shall have the right to adopt the appropriate one considering the amount of tax liability on BHEL/Client as well as procedural simplicity with regard to assessment of the liability. The option chosen by BHEL shall be binding on the Contractor for discharging the obligation of BHEL in respect of the tax liability to the Contractor.</p>
11.2.4	<p>Contractor has to submit GST registration certificate of the concerned state. Contractor also needs to ensure that the submitted GST registration certificate should be in active status during the entire contract period.</p>
11.2.5	<p>Contractor/Vendor has to issue Invoice/Debit Note/Credit Note indicating HSN/SAC code, Description, Value, Rate, applicable tax and other particulars in compliance with the provisions of relevant GST Act and Rules made thereunder.</p>

Technical Conditions of Contract (TCC) for (FQAE)

11.2.6	<p>Vendor has to submit GST compliant invoice within the due date of invoice as per GST Law. In case of delay, BHEL reserves the right of denial of GST payment if there occurs any hardship to BHEL in claiming the input thereof. In case of goods, vendor has to provide scan copy of invoice & GR/LR/RR to BHEL before movement of goods starts to enable BHEL to meet its GST related compliances.</p> <p>Special care should be taken in case of month end transactions.</p>
11.2.7	<p>Vendor has to ensure that invoice in respect of such services which have been provided/completed on or before end of the month should not bear the date later than last working day of the month in which services are performed.</p>
11.2.8	<p>Subject to other provisions of the contract, GST amount claimed in the invoice shall be released on fulfilment of all the following conditions by the Contractor: -</p> <ol style="list-style-type: none">a. Supply of goods and/or services have been received by BHEL.b. Original Tax Invoice has been submitted to BHEL.c. Contractor/ Vendor has submitted all the documents required for processing of bill as per contract/ purchase order/ work order.d. In cases where e-invoicing provision is applicable, vendor/contractor is required to submit invoice in compliance with e-invoicing provisions of GST Act and Rules made thereunder.e. Contractor has filed all the relevant GST return (e.g. GSTR-1, GSTR-3B, etc.) pertaining to the invoice submitted and submit the proof of such return along with immediate subsequent invoice. In case of final invoice/ bill, contractor has to submit proof of such return within fifteen days from the due date of relevant return.f. Respective invoice has appeared in BHEL's GSTR - 2A for the month corresponding to the month of invoice and in GSTR-2B of the month in which such invoices has been reported by the contractor along with status of ITC availability as "YES" in GSTR-2B. Alternatively, BG of appropriate value may be furnished which shall be valid at least one month beyond the due date of confirmation of relevant payment of GST on GSTN portal or sufficient security is available to adjust the financial impact in case of any default by the contractor.g. Contractor has to submit an undertaking confirming the payment of all due GST in respect of invoices pertaining to BHEL.

Technical Conditions of Contract (TCC) for (FQAE)

11.2.9	Any financial loss arises to BHEL on account of failure or delay in submission of any document as per contract/purchase order/work order at the time of submission of Tax invoice to BHEL, shall be deducted from contractor's bill or otherwise as deemed fit.
11.2.10	TDS as applicable under GST law shall be deducted from contractor's bill.
11.2.11	Contractor shall comply with the provisions of e-way bill wherever applicable. Further wherever provisions of GST Act permits, all the e-way bills , road permits etc. required for transportation of goods needs to be arranged by the contractor.
11.2.12	Contractor shall be solely responsible for discharging his GST liability according to the provisions of GST Law and BHEL will not entertain any claim of GST/interest/penalty or any other liability on account of failure of contractor in complying the provisions of GST Law or discharging the GST liability in a manner laid down thereunder.
11.2.13	In case declaration of any invoice is delayed by the vendor in his GST return or any invoice is subsequently amended/alterd/deleted on GSTN portal which results in any adverse financial implication on BHEL, the financial impact thereof including interest/penalty shall be recovered from the Contactor's due payment.
11.2.14	Any denial of input credit to BHEL or arising of any tax liability on BHEL due to non-compliance of GST Law by the Contractor in any manner, will be recovered along with liability on account of interest and penalty (if any) from the payments due to the Contactor.
11.2.15	In the event of any ambiguity in GST law with respect to availability of input credit of GST charged on the invoice raised by the contractor or with respect to any other matter having impact on BHEL, BHEL's decision shall be final and binding on the contractor.
11.2.16	<p>Variation in Taxes & Duties:</p> <p>Any upward variation in GST shall be considered for reimbursement provided supply of goods and services are made within schedule date stipulated in the contract or approved extended schedule for the reason solely attributable to BHEL. However downward variation shall be subject to adjustment as per actual GST applicability.</p> <p>In case the Government imposes any new levy/tax on the output service/goods after price bid opening, the same shall be reimbursed by BHEL at actual. The reimbursement under this clause is restricted to the direct</p>

Technical Conditions of Contract (TCC) for (FQAE)

	<p>transaction between BHEL and its contactor only and within the contractual delivery period only.</p> <p>In case any new tax/levy/duty etc. becomes applicable after the date of Bidder's offer but before opening of the price Bid, the Bidder/Contractor must convey its impact on his price duly substantiated by documentary evidence in support of the same before opening of price bid. Claim for any such impact after opening the price bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.</p>
11.3	<p>Income Tax:</p> <p>TDS/TCS as applicable under Income Tax Act, 1961 or rules made thereunder shall be deducted/collected from contractor's bill.</p>

12.0 format

Technical Conditions of Contract (TCC) for (FQAE)

ANNEXURE-I

FORMAT FOR FURNISHING CV

- A. AGENCY:
- B. PROJECT TO BE DEPLOYED IN:
- C. POSITION: FQA Personnel (Civil)/ (Mechanical)/ (Electrical)
- D. PERSONAL DETAILS:
- a. Name: _____
 - b. Father's Name: _____
 - c. Date of Birth: _____
 - d. Permanent Address:
 - e. Present Address:
 - f. Contact Number: _____, email id: _____
 - g. Health Details as per format (Annex-II) : Attached/ not attached
- E. ACADEMIC DETAILS: (Only technical Degree/ Diploma qualification to be recorded)

	Course with stream	Year of Passing	% Score-final		Institute/ location/state	Recognised by/affiliated to

F. OTHER PROFESSIONAL QUALIFICATION DETAILS:

	Course	Duration			Institute	Recognised by/affiliated to
		From	To	Time in yr		

G. EXPERIENCE:

SL NO	1	2	3
AGENCY			
CLIENT			
POSITION			
PROJECT DETAILS	NAME		
	LOCATION		
	CONSULTANT		
	OWNER		
	JOB DURATION		

Technical Conditions of Contract (TCC) for (FQAE)

H. COMPUTER KNOWLEDGE DETAILS:

I. ANY OTHER DETAILS RELATED TO QUALIFICATION AND EXPERIENCE RELEVANT TO THE JOB:

(SIGN OF THE CANDIDATE)

ENDORSED BY AUTHORISED SIGNATORY OF
AGENCY

DATE:

NAME, SEAL AND DATE:

Note :

A copy of photo-identity card issued by any Govt. Authority, a copy of photo-identity card issued by the bidder, mark sheet, certificate and other testimonials in support of Identity, Date of Birth, Academic Qualification, Professional Qualification, and Experience must be submitted along with CV. All copies are to be self-attested by the candidate.

Technical Conditions of Contract (TCC) for (FQAE)

ANNEXURE-II

FORMAT FOR FURNISHING HEALTH-CHECK UP DETAILS NAME:

AGE:

SEX:

History of Past Illness	H/O Epilepsy H/O Drug Allergy H/O Diabetics/ Hypertension H/O Unconsciousness
EXAMINATION	OBSERVATION
<u>General Physical Examination</u>	
Height	:
Weight	:
BMI	:
Built And nourishment	:
Pallor	:
Temperature	:
Chest Expansion	: Inspiration Expansion
Lymph Node Enlargement	:
<u>Ear, Nose, Throat :</u>	
Ear	:
Nose	:
Throat	:
<u>Cardiovascular System Examination :</u>	
Inspection	:
Palpation	: Pulse BP
Auscultation (Heart Sounds)	:
<u>Respiratory System:</u>	
Inspection	: Respiratory Rate
Palpation:	:
Percussion	:
Auscultation (Breath Sounds)	:
<u>Examination of Abdomen:</u>	
Inspection	:
Palpation	:
Auscultation (Bowel Sounds)	:
<u>Any Other:</u>	
Clinical Impression	

Signature of the examining doctor

Seal with Registration

Number