

08 Feb
2019

VOLUME - IA

Technical Conditions of Contract (TCC)
“Material Handling & Hiring of site establishment”
services

FOR

RE WORKS OF BHANDAI-UDI, BIRLANAGAR-
ETAWAH AND FARRUKHABAD-SHIKOHABAD
INCLUDING MAINPURI-ETAWAH


OF

NORTH CENTRAL RAILWAY

BHARAT HEAVY ELECTRICALS LIMITED



Technical Conditions of Contract (TCC) for “Material Handling & Hiring of site establishment” services

	Technical Conditions Of Contract (TCC) PROJECT ENGINEERING & SYSTEMS DIVISION HYDERABAD			Ref No: HY/PE&SD/Projects/TCC /2018-19/MH&SE/ Birlanagar-Etawah Project/01
COPYRIGHT AND CONFIDENTIAL 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.		TECHNICAL CONDITIONS OF CONTRACT (TCC) FOR “Material Handling & Hiring of site establishment” services FOR RAILWAY ELECTRIFICATION PROJECT IN BHANDAI-UDI, BIRLANAGAR-ETAWAH AND SHIKOHABAD-FARRUKHABAD INCLUDING MAINPURI-ETAWAH, SECTION OF AGRA, JHANSI AND ALLAHABAD DIVISIONS OF NORTH CENTRAL RAILWAY UNDER RE PROJECT LUCKNOW, TOTAL RKM 386/440TKM		
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Technical Conditions of Contract (TCC) for “Material Handling & Hiring of site establishment” services

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Chapter I- Project Information

1.0 Project Details			
Bharat Heavy Electricals Limited has been awarded the “The Electrification of Railway Lines of the section Birlanagar-Etawah, Bhandai-Udi and Farrukhabad-Shikohabad including Mainpuri-Etawah of North Central Railway 386 RKM/440 TKM” project on EPC basis by Central organization for railway electrification (CORE), Allahabad.			
1	Customer	:	Central organization for railway electrification (CORE), Allahabad.
2	Project Information	:	Electrification of Railway Lines of the section Birlanagar-Etawah, Bhandai-Udi and Farrukhabad-Shikohabad including Mainpuri-Etawah of North Central Railway 386 RKM/440 TKM
3	Location	:	Birlanagar-Etawah, Bhandai-Udi and Farrukhabad-Shikohabad including Mainpuri-Etawah of North Central Railway 386 RKM/440 TKM, Madhya Pradesh and Uttar Pradesh.
4	Address Detail	:	Bhind: Birlanagar-Etawah Section Bah: Bhandai-Udi Section Karhal: Farrukhabad-Shikohabad including Mainpuri-Etawah Section of North Central Railway.
5	Nearest Railway Station	:	Agra, Etawah, Birlanagar, Shikohabad and others
6	Road Approach	:	NA
7	Nearest Air Port	:	Lucknow, Kanpur
11	Ambient Air Temperature (Average)	:	a) Maximum : 45 ⁰ C b) Minimum : 2 ⁰ C
12	Average Relative Humidity	:	40 %
13	Climatic Condition	:	Tropical Climate

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.

Chapter II- Scope of Work

2.0 SCOPE OF WORK

The scope of work in general are receipt of project material, unloading, storing, preservation, issuing of material with proper documentation and providing & maintaining the site office set up materials as per Annexure-1 B for office establishment at 3 following project sites of Railway Electrification, Birlanagar-Etawah, 386RKM/440TKM on as and when required basis for the period of Twenty four months-24 (18 Months for Material handling activities & 24 months for site services have been considered for unforeseen delay & site closure activities):

1. Bhind: Birlanagar-Etawah Section
2. Bah: Bhandai-Udi Section
3. Karhal: Farrukhabad-Shikohabad including Mainpuri-Etawah Section of North Central Railway.

Identification of equipment at storage yard, technical assistance for checking and making the shortage/damage reports, taking delivery at storage yard and direct unloading at execution/Assembly site of work under the scope of this tender specification along with the supply of all consumables (slippers, wooden planks, supports, Tarpaulins) tools & tackles (Hydra/Crane, Slings etc.) and all type of manpower (Hydra operator, supervisor, Store keeper, Rigger, helper etc) required for Material handling.

- a. It is not the intent to specify herein all details of material. Any item related to this work not covered, but necessary to complete the system will be deemed to have been included in the scope of the work.
- b. Site testing wherever required shall be carried out for all standard T& P's
- c. The contractor shall take full responsibility for satisfactory handling of Material & reconciliation under overall guidance of BHEL and shall locate any cause of malfunction and rectify the same for proper operation.
- d. The work shall be executed under the usual conditions without affecting project work and in conjunction with other operations and contracting agencies at site. The contractor and his personnel shall cooperate with the personnel of other agencies, co-ordinate his work with others and proceed in a manner that shall not delay or hinder the progress of work as a whole.
- e. All the work shall be carried out as per instructions of BHEL engineer. BHEL engineer's decision regarding the correctness of the work and method of working shall be final and binding on the contractor.
- f. All necessary certificates and licenses required to carry out this work are to be arranged by the contractor expeditiously at his cost.

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- g. The contractor shall note that whenever required items/materials shall be unloaded at erection site / assembly yard by the prescribed route without disturbing and causing damage to other works in the most professional manner. All items, Hardware, etc., shall be stored in appropriate manner as per instructions of BHEL engineer.
- h. Contractor shall remove all scrap materials periodically generated from his working area in and collect the same at one place earmarked for the same. Load of scraps is to be shifted to a place earmarked by BHEL. Failure to collect the scrap is likely to lead to accidents and as such BHEL reserves the right to collect and remove the scrap at contractor's risk and cost if there is any failure on the part of contractor in this respect.
- i. The contractor shall ensure that his premises are always kept clean and tidy to the extent possible. Any untidiness noted on the part of the contractor shall be brought to the attention of the contractor's site representative who shall take immediate action to clean the surroundings to the satisfaction of the Engineer-in-Charge
- j. The Contractor may have to execute work in such a place and condition where other agencies also will be under such circumstances.
- k. If any item or equipment not covered but requires to be unloaded, same shall be carried out by the contractor. Unit rate shall be considered for payment purpose. The unit rates quoted by the contractor shall be uniform for all the items.
- l. Scope of work covered under this specification requires quality workmanship & Material Management. The contractor shall ensure timely completion of work. The contractor shall have adequate tools, Consumables & etc in his possession. He shall also have adequate trained, qualified and experienced engineers, supervisory staff and skilled personnel.
- m. The manpower deployed by contractor shall match with above scope of works
- n. Contractor shall deploy adequate Manpower for Material Management to meet scope of works and Minimum manpower & T&P's shall be available at site on continuous basis to meet the daily site requirements.
- o. The scope of various material to be handled, indicated in this contract is indicative only. Bidder shall unload all the material pertaining to this Project and site establishment materials as specified in **Annex-1 B**.
- p. Maintenance: During hiring period, maintenance & cleaning of the Porta cabin and accessories shall be in the scope of bidder.

NOTE:

- 1) **Rates are to be filled only in the Rate Schedule.**
- 2) **Chapter-II & III of Part-II contains general guidelines for Material Management.**
- 3) **The quantity indicated in the rate schedule for site establishment is indicative only and is liable for Variation. Payment will be as per actual quantity as certified by the BHEL Engineer at site.**

Chapter III- Facilities in the scope of Bidder/BHEL

S. No.	Description	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.1	ESTABLISHMENT			
3.1.1	FOR CONSTRUCTION PURPOSE:			
a	Open space for office (as per availability)	Yes		Location will be finalized after joint survey with owner
b	Open space for storage (as per availability)	Yes		Location will be finalized after joint survey with owner
c	Construction of bidder’s office, canteen and storage building including supply of materials and other services		Yes	
d	Bidder’s all office equipment, office / store / canteen consumables		Yes	
e	Canteen facilities for the bidder’s staff, supervisors and engineers etc		Yes	
f	Firefighting equipment like buckets, extinguishers etc		Yes	
g	Fencing of storage area, office, canteen etc of the bidder		Yes	
3.1.2	FOR LIVING PURPOSES OF THE BIDDER			
a	Open space for labour colony (as per availability)		Yes	Bidder has to take care.
b	Labour Colony with internal roads, sanitation, complying with statutory requirements.		Yes	
3.2.0	ELECTRICITY			
3.2.1	Electricity For construction purposes of Voltage 415/440 V			
a	Single point source		Yes	Bidder has to take care.
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
c	Duties and deposits including statutory clearances if applicable		Yes	

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S. No.	Description PART I	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.2.2	Electricity for the office, stores, canteen etc of the bidder			Bidder has to take care
a	Single point source		Yes	
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
c	Duties and deposits including statutory clearances if applicable		Yes	
3.2.3	Electricity for living accommodation of the bidder’s staff, engineers, supervisors etc		Yes	
a	Single point source		Yes	
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
c	Duties and deposits including statutory clearances if applicable		Yes	
3.3.0	WATER SUPPLY			
3.3.1	For construction purposes			Bidder has to take care
a	Making the water available at single point		Yes	
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.2	<u>Water supply for bidder’s office, stores, canteen etc</u>			
a	Making the water available at single point		Yes	
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.3	<u>Water supply for Living Purpose</u>			Bidder has to take care.
a	Making the water available at single point		Yes	
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	

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S. No.	Description	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.4.0	LIGHTING			
a	For construction work (supply of all the necessary materials) 1. At bidder’s office/ area		Yes	
b	For construction work (execution of the lighting work/ arrangements) 1. At bidders office/area		Yes	
c	Providing the necessary consumables like bulbs, switches, etc during the course of project work		Yes	
d	Lighting for the living purposes of the bidder at the colony / quarters		Yes	
3.5.0	COMMUNICATION FACILITIES FOR SITE OPERATIONS OF THE BIDDER			Bidder has to take care
a	Téléphone, fax, internet, e-mail etc.		Yes	
3.6.0	COMPRESSED AIR wherever required for the work		Yes	Bidder has to take care
3.7.0	Demobilization of all the above facilities		Yes	Bidder has to take care
3.8.0	TRANSPORTATION			Bidder has to take care
a	For site personnel of the bidder		Yes	
b	For bidder’s equipment and consumables (T&P, Consumables etc)		Yes	

3.9 Open Space:

Open space for building of temporary office shed, contractor’s stores shed(s) will be provided free of hire charges. Contractor has to make his own arrangement for establishing labour colony.

3.10 Electricity:

- 3.10.1 Electricity will be arranged by the contractor.
- 3.10.2 Any duty, deposit while arranging temporary power shall be borne by bidder.
- 3.10.3 Provision of distribution of electrical **connection** with proper distribution boards, approved cables and cable laying including supply of all materials like cables, switch boards, pipes etc., observing the safety rules laid down by electrical authority of the state/BHEL/their customer with appropriate statutory requirements shall be the responsibility of the bidder.
- 3.10.4 BHEL is not responsible for any loss or damage to the contractor’s equipment as a result of variations in voltage/frequency or interruption in power supply.

3.11 Water:

Water will be arranged by the contractor.

Chapter IV- Tools & Plants to be deployed by Bidder

4. List of minimum major Tools & Plants to be deployed by the contractor:

- a) All T&Ps & Consumables are to be arranged by the contractor at his cost.

T&P and Consumables			
SI No	Description	Qty	Capacity
01	Hydra with Operator	1 no per site	14MT
02	Diesel	As required	As required
03	Wire rope slings	4 sets per site	2- 25MT Verities
04	Webbing Slings	4 Sets per site	2-15MT Verities
05	Chain block pulley	2 sets per site	Capacity - 3T
06	D-Shackles	4 sets per site	3-5MT Verities

4.1 Other Requirements of Contractor’s Instruments & T&P

- a) All the distribution boards, connecting cables, hoses etc., and temporary connection work including electrical connections shall have to be arranged by the contractor at his cost.
- b) The contractor at his cost shall arrange all T&P like cranes, truck/tractor, and trailers required for material handling purpose.
- c) Equipment, vehicles, tools and plants and materials brought to site by the contractor from his resources shall have distinctive identification marks and the description and quantity shall be intimated to BHEL in writing by the contractor.
- d) All construction materials brought by the contractor shall have prior approval regarding quality and quantity by BHEL. The contractor shall also provide without extra cost necessary enclosures containers and protective materials for proper storage of materials inside, whenever so instructed by the purchaser without any extra cost.
- e) No material or equipment or tools etc. shall be taken out of the worksite without the written consent of BHEL.
- f) BHEL shall not be responsible for the safety and protection of the materials of the contractor and the contractor shall make his own arrangements for proper watch and ward for his materials.
- g) Until such time the work is taken over by BHEL/Execution Agencies, the contractor shall be responsible for proper protection of material. The contractor shall during the progress of work properly cover up and protect any part of the work liable to damage by exposure to the weather and shall take every reasonable precaution against accident or damage to the work from any cause.

NOTE:

THIS ABOVE LIST IS ONLY INDICATIVE AND NEITHER EXHAUSTIVE NOR LIMITING. CONTRACTOR SHALL DEPLOY ALL NECESSARY T&P AND CONSUMABLES TO MEET THE SCHEDULES & AS PRESCRIBED BY BHEL ENGINEER AND REQUIRED FOR COMPLETION OF WORK.

Chapter V-Time Schedule

5.1 Time Schedule

5.1.1

The entire work of material handling and site office establishment services for this project shall be completed within 24 (Twenty Four) months from the date of commencement of site work.

5.1.2

During the total period of contract, the contractor has to carry out the activities in a phased manner as required by BHEL and the program Railways milestone events.

5.1.3

The Material Handling work shall be commenced as may be stipulated in the letter of intent and shall be deemed as completed in all respect only when the project is completed and the decision of BHEL in this regard shall be final and binding of the contractor.

5.1.4

Overall project schedule for this Project shall be as mutually agreed between BHEL & bidder.

5.2 Commencement of Contract Period

The date of commencement of contract period shall be within one week of issue of LOI or from date of the mutually agreed date between the bidder and BHEL engineer to start the work. In case of discrepancy the decision of BHEL engineer will be final.

Commencement of services pertaining to line item A and B may vary and decision for the same shall be based on sole discretion of BHEL. Contractor shall mobilize the resources accordingly.

5.3 Mobilization for material Handling & Associate works.

5.3.1

Vendor shall reach at site & deploy all the minimum T&P's, Consumable, and Manpower along with Bidder's site establishment as per directions of Construction Manager/ Project Manager of BHEL

5.3.2

In order to meet above schedule in general, and any other intermediate targets set, to meet customer / project schedule requirements, contractor shall arrange & augment all necessary resources from time to time on the instructions of BHEL.

5.4 CONTRACT PERIOD

The contract period for completion of entire work under scope shall be **24 (Twenty Four) months** from the —COMMENCEMENT OF CONTRACT PERIOD as specified earlier for completion of the entire work under this package.

Chapter VI- List Of Major Equipment

7.0 List of Major Equipment’s for Material Handling for Railway Electrification Project

Dimensions & weights for Material supplied by BHEL for Railway Electrification project. Birlanagar - Etawah						
S.No	Item Description	Qty	Units	Dimensions (Meter)-LxBxH	Weight Per Unit (Tonne)	Remarks
1	132kV SF6 Breakers-Double Pole	9	Nos	2.25x1.0x4.75	4.20	132kV SF6 breaker to be unloaded at respective TSS location.
2	25kV Vacuum Circuit breakers & Vacuum interrupter	75	Nos	1.0x1.0x2.0	0.80	Approximately 08 nos for each TSS. One for each SP & SSP
3	Control & Relay Panel	6	Nos	3.6x0.6x2.2	1.25	One for Each TSS
4	Auxiliary transformer					
4.1	25kVA	14	Nos	1.0x1.0x2.0	0.9	Two for Each TSS
4.2	10kVA	76	Nos	0.9x0.9x1.85	0.75	
4.3	5KVA	3	Nos	0.8x0.8x1.75	0.5	
5	DC System					
5.1	DC Charger for Batteries 200Ah, 110V	9	Nos	1.0x0.8x1.5	0.30	One for Each TSS
5.2	DC Charger for Batteries 40Ah, 110V	30	Nos	1.0x0.6x1.2	0.20	One for Each SP & SSP
5.3	Batteries 200Ah, 110V	9	Sets	2.5x0.6x0.75	1.25	One for Each TSS
5.4	Batteries 40Ah, 110V	30	Sets	2.5x0.5x0.6	1.00	One for Each SP & SSP
6	Contact Wire	550	km	NA	1.00	Approximately 1.2 km per Drum
7	Catenary wire	530	km	NA	0.80	Approximately 1.2 km per Drum
8	Power Cables					
8.1	33kV-3Cx300Sq.mm, XLPE, Al	2.5	km	NA	15.45	Approx. 0.5 km per Drum
8.2	11kV-3Cx185sq.mm, XLPE, AL	3.2	km	NA	7.32	Approx. 0.5 km per Drum

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8.3	LT Cable-3.5Cx95Sq.mm, XLPE, AL	5.6	km	NA	2.80	Approx. 1.0 km Per Drum
8.4	LT Cable-4Cx16Sq.mm,XLPE, AL	10	km	NA	1.00	Approx. 2.0 km Per Drum
8.5	LT Cable-2Cx16Sq.mm,XLPE, AL	1.5	km	NA	0.50	Approx. 2.0 km Per Drum
9	S&T Cables					
9.1	Signalling Cable – 12C x 1.5MM2	350	km	NA	0.70	40 cable Drums
9.2	Signaling Cable – 2C x 25Sq MM	45	km	NA	1.10	50 cable Drums
9.3	Signaling Cable – 2C x 2.5MM2	15	km	NA	0.10	20 cable Drums
9.4	Power cable 2C x50 Sqmm	1.5	km	NA	1.20	4 cable Drums
9.5	Power cable 2 x70 Sqmm AL EXPE	100	km	NA	1.50	120 cable drums
9.6	Signaling cable 12C x1.5 Sqmm	42	km	NA	0.70	45 cable drums
9.7	Signaling cable 18C x1.5 Sqmm	12	km	NA	0.90	15 cable drums
9.8	Signaling cable 2x25 Sqmm(A1)	18	km	NA	1.10	20 cable drums

Notes

- 1 Total no of TSS are 06 nos at various locations as mentioned in RFP
- 2 Above weight & Dimensions are approximate and may vary as per manufacturer standards.
- 3 Quantity indicated above is preliminary. Same may vary in detail engineering.

No material shall be treated as excess material, Bidder shall unload & store all materials pertaining to Railway Electrification Project within his quoted rate.

The contractor shall be responsible for the quality of workmanship and shall guarantee the work done, shall rectify/replace at no extra cost, all defects due to faulty/ Mishandling.

In the event of contractor failing to replace/repair the defective works within the time required BHEL may proceed to undertake the replacement/repairs of such defective supplies/works at the contractor's risk and cost without prejudice to any other points/right

Chapter VII- Payment & Measurement of Works

Payment and measurement of work completed

Refer General Conditions of Contract

Note:

1. Payments against the above Billing break up will be subject to the other statutory deductions, viz. retention amount, TDS towards income tax, security deposits, etc. as per the provisions contained in GCC, SCC, NIT & other contract documents.
2. Payment for the first running bill will be released only on production of the following:
 - i) PF reg. No.
 - ii) Labour License No.
 - iii) Workmen Insurance Policy No.
 - iv) Unqualified Acceptance for Detailed LOI
 - v) 50% of Security Deposit should be deposited before start of the work & 50% may be recovered from the RA, As per Clause 1.10 of GCC.
 - vi) Signing of Contract Agreement

Chapter VIII- DG Specification

Technical Spec for DG Set-Silent DG

Diesel Engine

New Kirloskar /CUMMINS/or any other reputed brands with silent version, cabling to the load to be included. 3 cylinder, inline, 4 stroke cycle, water cooled natural aspirated, developing rated power at 1500 RPM under NTP condition of BS:5514. The engine shall be provided with electrical starting arrangement & shall give the rated electrical output at 0.8 pf, 415V at the alternator terminal.

Alternator

Single bearing alternator suitable for operation generating on required KVA rating at 1500 RPM, 415 Volts, 0.8 pf(lag) suitable for 50 Hz, 3 phase, 4 wired system, conforming to BS5000/IS 4722. The Alternator is brushless type, screen protected, revolving field, self-excited, self-generated through an AVR. The alternator should have the following feature

±1.0% Voltage regulation (max) in static conditions

IP: 23 protections with insulation class H

Permissible overload of 10% for one Hr in 12 Hours of operation

Chapter IX- Schedule of items for site establishment services

Item no	Item Description	Unit
I	II	III
B	Hiring of Site office Establishment	
B.1	Installation of PCs, Printers & Networking and provision of subsequent Annual Maintenance Contract service of the same.	Months
B.3	Providing services of Office boy cum messenger	Man Month
B.4	Providing services of Sweeper cum Gardener	Man Month
B.5	Supplying & providing Packaged drinking water to different site/office locations	Lit
B.6	Supplying, providing & storing in PVC Water tanks Water for general purpose at different office/site location as per direction & instruction of BHEL Engineer.	Lit
B.7	Providing, installing, Operation & Maintenance of 1 No. 25 KVA DG Set(Kirloskar/Cummins silent version) & its complete cabling up to load points on hire basis. To be used as Power back-up and average daily operation of 6 Hrs.	DG Months
B.8	Supplying HSD (Diesel) for 6 hrs. operation per day of item no. B7 above. (Payment will be made on actual market rate prevailing at the time of supply)	Lit
B.9	Supplying & installation of Sintex Tank-2000 liters including plumbing, Motor etc on hire basis	Months
B.10	Establishing Electricity connection from SEB/ Customer Point including input cable laying & Electricity meter installations, Electricity distribution cabling to porta cabins- Split ACs, illumination points, store area illumination etc.. Including its service/ maintenance to ensure uninterrupted power.	LS
B.11	Providing general services for Electrical maintenance (Including Plumbing) for office & site establishment to complete satisfaction of BHEL Engineer and as per instruction & direction of BHEL Engineer	Months

Chapter X- Schedule of items for Material handling

Item no	Item Description	Unit
I	II	III
A	Material Handling Works (Receipt, Unloading & Preservation at site)	
A.1	Material Handling (Receipt, unloading, Stacking & Preservation of materials, handling & loading to execution contractor's vehicle at the time of issue) for materials being received/issued at all the three Locations put together(Bhind, Bah & Karhal as defined in clause no. 2.0 of TCC) in each month(out of the total list of material defined in clause no. 7.0 of TCC) including providing all necessary equipment, T&P and manpower, viz. Hydra, T&P, Consumables, Diesel, Hydra Driver, Store Keeper, Supervisor, Rigger & Helpers all complete as per instruction & direction of BHEL Engineer	Month

Note:

1. Item no A.1 will consist minimum of the followings:
 - 1.1 One (1) 14T hydra type crane including driver, diesel, T&Ps and all consumables etc.
 - 1.2 One (1) Rigger, 2 Helpers.
 - 1.3 One (1) Store Keeper
 - 1.4 One (1) Supervisor

Chapter XI- General

1.0 GENERAL

- 1.1 All the work shall be carried out as per the instructions of BHEL engineer. BHEL engineer’s decision regarding the correctness of the work and method of working shall be final and binding on the Bidder.
- 1.2 The Bidder shall at his cost perform any services, tests etc, although not specified but nevertheless required for the completion of work.
- 1.3 If any portion of the work is found to be defective in workmanship or not conforming to BHEL requirements ,the Contractor shall re-do the work at his cost failing which the work will be got done by BHEL at the cost and risk of the contractor.
- 1.3 The terminal points as decided by BHEL shall be final and binding on the Contractor.
- 1.4 All tools and tackles, fixtures, equipment, materials, manpower, supervisors/ engineers, consumables etc. required for this scope of work shall be provided by the Contractor. All expenditure including taxes and incidentals in this connection will have to be borne by him unless otherwise specified in the relevant clause.
- 1.5 The contractor shall make adequate security arrangements including employment of security personnel and ensure protection from theft, fire, pilferage, damage and loss of materials/equipment kept under bidder custody.
- 1.6 All equipment shall be handled very carefully to prevent any damage or loss. No bare wire ropes, slings etc, shall be used for handling of the equipment without the specific permission of the engineer.
- 1.7 Contractor shall ensure proper housekeeping and remove all scrap materials periodically from various work area covered in the scope and deposit the same at the place earmarked for this purpose. In case of contractor’s failure to do the same, BHEL reserves the right to remove scrap at contractor's cost and risk.
- 1.8 Access to site for inspection by BHEL and customer engineers shall be made available by the contractor at all times.
- 1.9 Contractor shall mobilize sufficient quantity of sleepers for stacking of materials in his custody.
- 1.10 Site Inspection: The owner/employer / BHEL or his authorized agents may inspect various stages of work during the period of contract awarded to him. The contractor shall make necessary arrangements for such inspection and carryout the rectification pointed out by the owner/employer without any extra cost. No cost whatsoever for such duplication of inspection/work will be entertained.

- 1.11 Filed Quality Assurance Formats: It is the responsibility of the contractor to collect and fill up relevant FQA Log sheets and present the same to BHEL after carrying out the necessary checks as per the log sheets and obtaining the signature of BHEL/Customer in token of their acceptance. Monthly Running Bill Payment to the contractor will be linked with the submission of these log sheets.
- 1.12 The contractor agrees to indemnify the company against all claims and losses arising as a liability under the Payment of Wages Act, Employees Provident Fund & Miscellaneous Provisions Act, Industrial Disputes Act, Employees State Insurance Act, Contract Labour (Regulation and Abolition) Act, Workmen’s Compensation Act, Arbitration Act, Minimum Wages Act, Inter State Migration Act, etc. or criminal law in force so far as they relate to security personnel employed by the contractor for the company.
- 1.13 Income Tax or any other statutory dues liable to be paid by the contractor shall be recovered from the bills of the contractor for which TDS certificate will be issued by BHEL.
- 1.14 With regard to the interpretation of the terms and conditions of this contract, the decision of the Head of the Region/BHEL PE&SD shall be final.
- 1.15 Any dispute arising out of this contract shall be within the jurisdiction of the Court of Hyderabad only.
- 1.16 Any addition/ deletion on the scope of work and terms and conditions under this contract shall be implemented based on mutual discussions between the “company” and the “contractor”.
- 1.17 Letter of Award No ----- issued by BHEL/PE&SD, Hyderabad (including the enclosures) shall form the integral part of this agreement.
- 1.18 In witness hereof the parties have respectively set their signature in the presence of:

2.0 COLLECTION AND RETURN OF EQUIPMENT, MATERIALS & CONSUMABLES

- 2.1 The Contractor should note that the transport of equipment to erection site, assembly yards etc should be done by the prescribed route, without disturbing the other works and contractors and in the most professional manner.
- 2.2 The contractor shall return all parts, materials & consumables of BHEL remaining unused & extra material in their custody. In case of any misuse or use over actual requirement, BHEL reserves the right to recover the cost of parts/materials used in excess or misused, with departmental charges.

- 2.3 All packing and forwarding material shall be returned as soon as the material is unpacked. The location for storage of such materials shall be as indicated by BHEL Engineer.
- 2.4 The terminal points decided by BHEL should be final and binding on the contractor for deciding the scope of work and effecting payment for the work done.
- 2.5 The contractor shall perform any services, tests etc. Which may not be specified but nevertheless required for the completion of work within quoted rates.
- 2.6 All cranes, transport equipment, handling equipment, tools, tackles, fixtures, equipment, materials, manpower, supervisors/ engineers, consumables etc required for this scope of work shall be provided by the contractor. All expenditure including taxes and incidentals in this connection will have to be borne by him unless otherwise specified in the relevant clauses. The contractor’s quoted rates should be inclusive of all such contingencies.
- 2.7 All the materials during storing shall be stored well above ground level as necessary to avoid water ingress etc, by use of wooden/ concrete blocks/ sleepers. No material shall be stored directly on the ground at any time.
- 2.8 No BHEL crane will be available under this tender specification for handling of equipment. Contractor shall take specific note of this aspect and shall arrange all necessary T&P and lifting/handling/transportation arrangements..
- 2.9 For any class of work for which no specifications have been laid down in these specifications, work shall be executed as per the instructions of BHEL & suit the site requirement.
- 2.10 The contractor shall perform all required services which may not be specified herein but nevertheless required for the completion of work within quoted rates.
- 2.11 All cranes, transport equipment, handling equipment, tools, tackles, fixtures, equipment, manpower, supervisors/engineers, consumables (excluding those indicated as BHEL scope), etc required for this scope of work shall be provided by the contractor and shall conform to Safety Requirements/ Load Testing etc. as per BHEL/Railways rules & Regulations at site.
- 2.12 All expenditure including taxes and incidentals in this connection will have to be borne by the contractor unless otherwise specified in the relevant clauses elsewhere here. The contractor's quoted rates shall include of all such contingencies. In this connection refer relevant clause of general conditions of contract.

- 2.13 The contractor shall take due precaution during Materials Handling of equipment/works under these specifications to avoid deface, injure, damages, destruction by contractor or his workmen or servants to any pipelines, railway lines, roads, canals, cables, culverts, drains, sewer, telephone lines, water mains, dykes, poles, pillars, fences, wires, supports and embedment’s and other underground or over ground works, Structural or constructions whatsoever and shall at his own cost and initiative forthwith restore and repair any damage thereto the entire satisfaction of customer/BHEL at his own expense or in default, the customer/ BHEL site engineer may cause the same to be made good by other agency or by other means and deduct the expense with BHEL overhead (of which the site engineer's decision is final) from any sums that may be then or at any time thereafter become due to the contractor or from his security deposit or any other money due.
- 2.14 As such, the marine cover and erection all risk cover insurance for the project for permanent incorporation of materials and services at site lies with customer. The contractor shall have to take necessary all risk insurance policy (motor vehicles act, worker’s compensation act, fatal accidents act, personal injuries insurance act, emergency risk insurance act and/or other industrial legislation from time to time with Indian insurance company(ies) approved by owner **for his manpower and his employees deployed at site under work compensation act including but not limited to third party insurance at Railway Electrification project along with his T&Ps before starting of the work and shall submit the necessary document/policy in support of above to BHEL/customer at site. The insurance policy taken shall be kept in-force till completion of contract. The workmen’s compensation insurance and third party insurance liability limits shall be as customer specification. Contractor shall indemnify the customer CORE / BHEL harmless against such losses, which are on account of contractor.**
- 2.15 Recoveries will be made from contractor's bills for any liability accrued to BHEL/ CORE for the accidents and refund of the same shall be considered later, after the claim is fully settled by insurance authorities.
- 2.16 Customer has taken the marine cover and all risk cover insurance for the project for permanent incorporation of materials and services at site. However contractor shall take all due precautions, arrange & follow the safety & security requirements/regulations for materials issued to him & works under his execution and shall be responsible for safety & security of these materials & works for any loss or damages. For any damage / loss to the material during inland transportation, storage etc., contractor shall intimate promptly to BHEL/customer and shall prepare & submit the necessary detailed report / documents / information, facilitating inspection / discussions by the officials / surveyors deputed by insurer with all expenditure on contractor’s account. Contractor shall take care for timely information for conducting survey, submission of monetary estimate & furnish the requisite documents to surveyors/insurer, taking necessary precautions so that the loss/damage is not aggravated further, protecting damaged goods etc. As part of scope of work.

Contractor shall promptly make repair / rectify/replace and make good any damage or loss to CORE /BHEL materials and works on above account as per instructions of BHEL engineer in

charge at site without any delay & waiting for settlement of insurance claim from insurer. Contractor’s claim (if any) for such works will be settled as per applicable item rate of contract after settlement of claim from insurer / customer & after ascertaining / establishing that contractor is not responsible for such loss or damages. The contractor’s claim for such repair / replacement shall not be more than the payment settled by insurer / customer and in such case the contractor’s payment will be limited to seventy percent of settled amount by insurer/customer against claim amount.

- 2.17 The contractor shall submit survey report/performance report of the tools and plants deployed by him and being utilized on the work under the scope. These survey reports/performance reports are to be obtained by contractor from the customer of BHEL/insurance authorities and submitted to BHEL at no extra cost.
- 2.18 Contractor shall deploy & maintain, the separate exclusive workforce / manpower arrangements and T&Ps resources including the heavy lift equipment /arrangements for Material Handling scope of works.
- 2.19 All vehicles/ electrical motors devices shall have to be provision of fire extinguisher/muffler facilities etc.
- 2.20 Contractor shall provide FIRST AID / emergency medical facilities and maintain these facilities throughout the contract period & extension period (if any) as scope of work.
- 2.21 For any items or class of work not specified herein but required for total completion of work, the same shall be carried out as per BHEL requirement. However, payment of these items/class of work shall be regulated on the basis of rate arrived by the following method:
- 2.21.1 Based on unit rate of items in the rate schedule.
- 2.21.2 Wherever any item rate for similar type of work or nearby item rate does not exist in the rate schedule, rate will be worked out on the basis of work element or from fundamentals of estimation.
- 2.22 Dewatering inside material storing area for equipment is contractor scope.

Chapter XII- Storage

1.0 STORAGE

- 1.1 The equipment should be preferably in its original package and should not be unpacked until it absolutely necessary for its installation. The equipment should be best protected in its cases. It should be arranged away from walls.
- 1.2 The wooden pallet provided for packing itself can be retained for raised platform to protect equipment from ground damp, sinking into ground and to circulate air under the stored equipment. This shall also help in lifting the packing with forklift truck.
- 1.3 Periodic inspection of silica gel placed inside the equipment is necessary. It has to be replaced when de-colorization takes place or regenerated.
- 1.4 Due care should be taken to ensure that the equipment is not exposed to fumes gases etc. which can affect electrical contacts of relays and terminal boards.
- 1.5 The storage room and the equipment should be checked at regular interval of every week to ensure protection from termites, mold growth, condensation of water etc. which can damage the equipment.
- 1.6 All panels, electrical equipment's, and other materials kept in the store room should be identified and registered in a book. Inspection report should be recorded. Any discrepancy observed should be communicated to Site In-charge.
- 1.7 Packing material shall be retained if the cubicle to be repacked after inspection.
- 1.8 Cables shall be stored separately and preserved above the wooden supports.

2.0 Sub-Assemblies

- a) All sub-assemblies should be kept in a separate place where it is easily accessible.
- b) Sub-assemblies should have a protective cover in case it is stored without wooden packing/case to prevent accumulation of dust. Silica gel packets should also be kept along with it.
- c) Sub-assemblies should not be stacked one above the other.

3.0 Loose items (wherever applicable)

- 3.1 The loose items supplied for the main equipment falling into various categories like tools, cables, recorders and display units, cable glands, frames etc. are to be categorized and stored separately.

4.0 PRESERVATION OF COMPONENTS

- 4.1 Contractor shall arrange for preservation of components/ materials as per BHEL's storage and preservation manual and/or as per instructions of BHEL Manager.

- 4.2 The following methods shall be adopted for preservation:
- 4.3 Capping/wrapping/covering.
- 4.4 The following materials shall be adopted for preservation:
- 4.5 Firefighting Extinguishers, Slippers, wooden planks, supports, Tarpaulins etc.

Chapter XIII- Manpower Requirement

3.0 MANPOWER REQUIREMENT FOR MATERIAL HANDLING SHALL AS FOLLOWS:

- 3.1 The Site in charge of contractor shall be provided with PCs and good communication facilities like telephone, fax, email etc. at the cost and expense of the contractor. Lack of communication facilities shall not be an excuse for extension of completion date.
- 3.2 All instructions from BHEL/Customer shall be directed to the contractor through the Site in-charge and he shall be responsible for all the contractor’s activities at site. The contractor shall name his authorized representative prior to or immediately on commencement of operations at site
- 3.3 The Site In charge shall be present at site during all normal working hours and his contact address after normal working hours shall be made available to BHEL so that if any emergency arises, the presence of the contractor’s site Representative at site can be called for.
- 3.4 The contractor shall not change the site Representative without the consent of BHEL. Should BHEL require the replacement of the contractor’s site Representative for justifiable reasons (including inadequate progress of work) the contractor shall ensure that replacement is made as soon as possible and work is not allowed to suffer delay on this account.
- 3.5 The contractor shall provide to the satisfaction of BHEL sufficient and qualified staff for the execution of works. If and whenever any of the contractor’s staff is found guilty of any misconduct or be incompetent or insufficiently qualified in the performance of his duties the contractor shall remove them from site as directed by Site Engineer.
- 3.6 The contractor shall ensure that all his supervisor’s staff and workmen conduct themselves in a proper manner. They shall all be persons who are familiar with and skilled at the jobs allocated to them. Any misconduct / inefficiency noted on the part of the contractor’s personnel shall be brought to the attention of the contractor’s site representative who shall immediately take such action as necessary including the removal of such misconducting / inefficient persons, if so required by the Engineer-in-Charge.
- 3.7 The contractor shall ensure that replacement for such persons removed from site is provided immediately and the work is not allowed to suffer delay on that account.

Chapter XIV- Documentation

1 DOCUMENTATION

1.1 The following information shall be furnished within one weeks of award of contract for purchaser’s approval

- a) Mobilization Plan
- b) Detailed organization chart
- c) Details of T&P available with contractors with documents proofs.

1.2 The following information shall be furnished after testing and inspection:

- d) Revalidation of Test certificates of various T&P’s, if certificates are found to be invalid or any discrepancies/abnormalities observed in T&P’s during execution.

Chapter XV- Progress and Monitoring of Work

1 PROGRESS AND MONITORING OF WORK.

- 1.1 It is the responsibility of the contractor to provide all relevant information on a regular basis regarding progress, labour availability, equipment deployment, testing, etc.
- 1.2 The contractor shall submit daily, weekly and monthly progress reports, manpower reports, material reports, and equipment reports etc. as per formats specified by BHEL. The progress reports shall indicate the progress achieved against plan, indicating reasons for delays, if any. The report shall also give remedial actions which the contractor intends to make good the slippage or lost time so that further works can proceed as per the original plan the slippages do not accumulate and affect the overall Programme.
- 1.3 The contractor to reflect actual progress achieved during the month and shall be submitted to BHEL, so that slippages can be observed and necessary action taken in order to ensure that the situation does not get out of control shall update the construction schedule forming part of this contract each month.
- 1.4 If required by BHEL, the contractor shall change the sequence of his operation so that work on priority sectors can be completed within the projects schedule. The contractor shall afford maximum assistance to BHEL in this connection without causing delay to agreed completion date
- 1.5 In addition a weekly / fortnightly progress meeting shall be held at BHEL site office for coordinating job progress and all agreements reached there at shall be maintained.
- 1.6 Wherever sequences are furnished by BHEL, the contractor shall follow the same sequence.
- 1.7 The manpower reports shall clearly indicate the manpower deployed, category wise specifying also the activities in which they are engaged.
- 1.8 During the course of Material handling, if the progress is found unsatisfactory, or if the target dates fixed from time to time for every milestone are to be advanced, or in the opinion of BHEL, if it is found that the skilled workmen like fitters, operators, technicians employed are not sufficient BHEL may induct required additional workmen to improve the progress and recover all charges incurred on this account including all expenses together with BHEL overheads from contractor’s bill.

Chapter XVI- Validity Of Contract

1. VALIDITY:

1.1 This contract will initially be for period of **two year** in terms of Letter of intent with effect from date of signing agreement. This is renewable /terminable depending on necessity, as per existing terms and conditions.

Chapter XVII- Termination

5 TERMINATION:

Notwithstanding anything contained herein the contract may be terminated with due notice of one month on either side.

WITNESS

(with full address)

- 1.
- 2.

Signature of the Contractor

(To be signed by a person holding valid
Power of Attorney of the Company)

WITNESS

- 1.
- 2.

For and on behalf of
BHARAT HEAVY ELECTRICALS LIMITED

Chapter XVIII: Obligations of the Contractors

1.1 The contractor shall fully comply with the following enactments:

- (a) Contract Labour (R & A) Act, 1970 and rules formed therein under Central Rules.
- (b) Minimum Wages Act 1948 (Wage Rates not less than that notified by State Labour Department / Central Labour Dept., / BHEL whichever is higher from time to time).
- (c) Payment of Wages Act.
- (d) ESI Act, 1948
- (e) EPF Act, 1952
- (f) Employees’ Compensation Act, 1923.
- (g) Provisions of Factories Act 1948 & Rules thereof
- (h) The inter-state migrant workmen (regulation of employment and conditions of service) Act, 1979
- (i) ~~The AP Factories & Establishments (National Festivals & Other Holidays) Act 1974 (BHEL instructions as issued from time to time in regard to working hours, holidays, or any other statutory provisions)~~
- (j) Payment of Bonus Act, 1965
- (k) Payment of Gratuity Act, 1972

1.2 The contractor shall obtain License from the Assistant Labour Commissioner (Central), or appropriate government if he engages twenty or more workmen.

1.3 The Contractor shall produce the following Registers and forms before commencement of work, for verification by the Executing Officer.

- (a) Form XII - Register of contractors
- (b) Form XIII - Register of workmen employed by contractor (Rule 75)
- (c) Form XIV - Employment card issued by contractor (Rule 76)
- (d) Form XVI - Muster Roll (Rule 78(1)(a)(i))
- (e) Form XVII - Register of wages (Rule 78(1)(a)(i))
- (f) Form XVIII - Register of wages-cum Muster Roll (in case of weekly payment)
- (g) Form XIX - Wage Slip (Rule 78(b))
- (h) Form XX - Register of deduction for damages or loss (Rule 78(1)(a)(ii))
- (i) Form XXI - Register of files(Rule 78(1)(a)(ii))
- (j) Form XXII - Register of advances(Rule 78(1)(a)(ii))
- (k) Form XXIII - Register of overtime(Rule 78(1)(a)(iii))

(l) Form XXIV - Return to be sent by the contractor to licensing officer (Rule 82(1))

~~The contractor shall maintain the above neatly, completely and legibly for inspection by various authorities even at short notice. The Executing officer of BHEL shall periodically inspect these registers and forms, and shall send his inspection note to Industrial Relations (IR) section of Human Resource department.~~

~~1.4 The contractor shall observe~~

~~(a) Weekly rest day~~

~~(b) BHEL List of Holidays.~~

~~1.5 Contractor shall preferably obtain complete bio-data, of the labour, employment certificate and Antecedent verification (from A.P. Police Dept.,) in the prescribed form for each labour and supervisor engaged by him, and shall submit the same to the personnel department/IR section through the contract executing officers before commencement of the work.~~

~~1.6 The entry permits are to be issued to the contract labour by Assistant Commandant/Plant (CISF), based on the requisition submitted by Contract Executing Officer and forwarded by Contract Labour Cell of HR-IR section.~~

~~1.7 Every contractor shall submit a notice regarding commencement and completion of work in Form VI A&B [Rule 25(viii) & 81(3)] to Human Resource department, IR Section through his contract executing officer, for forwarding the same to Regional Labour Commissioner (Central), Hyderabad.~~

1.8 The contractor shall make himself or his representative (supervisor) available at the work spot every day during execution of work, for effective supervision.

1.9 The contractor shall attend to all inspections notified/conducted by the Human Resource department, Labour department, P.F. authorities, Inspector of Factories, ESI inspectors, or any other such authorities.

1.10 Non-compliance of any provisions under the act/rule/instructions/guidelines shall make the contractor liable for penal action including termination of contract.

1.11 Contractor shall furnish in a separate letter his place of residence and postal address. The delivery at the above named place or posting in a Post Box regularly maintained by the Post and Telegraph Department or sending letters registered for acknowledgement of any notice, letter or other communication to the contractor shall be deemed sufficient service there upon he contractor. Change in address shall come into force at any time by an instrument executed by the contractor and delivered to the BHEL official who has signed the contract.

1.12 The contractor must satisfy himself by personal study thoroughly the scope of proposed work in detail and all conditions affecting the work before entering into the contract. There shall not be at any time, dispute/complaint of any nature regarding scope of work and interpretation of specifications or any misunderstanding with regard to nature or omission of the work to be done nor shall any application for compensation in terms of time and money shall be accepted by BHEL regarding the above.

1.13 Contractor shall in his absence keep competent agent constantly on the works and any directions or explanations given by the "Contract Executing Officer" or his representative to such agent shall be held to have been given to the contractor himself.

1.14 Contractor on the advice of BHEL officials shall immediately remove any person employed by him, who may in the opinion of the BHEL official, is incompetent or involves himself in misconduct. Such persons shall not be again employed on the works without written permission of the BHEL official.

~~1.15 The contractor shall erect and maintain at his own cost, temporary weather proof sheds at such places approved by the BHEL for keeping materials under cover.~~

1.16 The contractor shall give all notices required by the Acts, regulation, bye laws, Legal Acts and pay all fees in connection therewith unless and otherwise arranged and decided in writing with BHEL. He shall also ensure that no attachments are made against materials or work forming part of or for the use of the contractor. In all such cases, contractor shall protect and indemnify BHEL against any claim or liability arising from or based on the violation of any such laws, ordinances, regulations, orders, decrees or attachment either by himself or by his

employees.

1.17 It shall be contractor’s sole responsibility to protect the public and his employees against accident from any cause and provide required safety equipment and shall indemnify BHEL against any claims for damages for injury to the person or property resulting from any such accidents and shall, where the provisions of the Employees Compensation Act and Public Liability Act as applicable, take steps to properly insure against any claims thereunder.

1.18 In the event of any accident in respect of which compensation may become payable under the Employees Compensation Act, VIII of 1923 whether by the contractor or by BHEL as Principal Employer, it shall be lawful for BHEL to retain out of monies due and payable to the contractor such sum or sums of money as may, in the opinion of BHEL shall be final in regard to all matter arising in this clause.

1.19 No work shall be done on Sundays or on other declared Holidays of BHEL without the written permission of BHEL officer in charge of the work. The contractor shall comply with the provisions of the Factories Act 1948 if the same are applicable. No contract labour shall be engaged on any National Holidays.

1.20 The contractor shall keep his work place clean and safe to avoid injuries to men and damage to finished products / equipment.

1.21 On the occurrence of an accident, which results in the death of any of the workmen employed by the contractor or which is so serious as to be likely to result in the death of any such workmen, the contractor shall within 24 hours of the happening of such an accident intimate in writing to the BHEL official in charge of the work.

1.22 The contractor shall indemnify BHEL against all losses or damages sustained by BHEL resulting directly or indirectly from his failure to give intimation in the manner aforesaid including the penalties or dues if any and become payable by BHEL, as a consequence of failure, BHEL to give notice under the Employees Compensation Act 1923 or otherwise confirm to the provisions of the said Act in regard to such accident.

1.23 The contractor shall ensure adherence to all statutory requirements applicable to BHEL.

1.24 The contractor shall ensure abidance by all the labour laws especially including Contract labour (R&A) Act 1970, Payment of Wages Act 1936, Employees Compensation Act 1923, Minimum Wages Act 1948, ESI Act 1948, Payment of Bonus Act 1965, and Provident Fund Misc. Prov. Act 1952, as amended from time to time.

1.25 The contractor shall comply with provisions of Provident Fund Misc. Prov. Act 1952 through PF code allotted to him / her.

1.26 Notwithstanding the above clause, in case of any financial loss incurred by company on account of contravention of the Provident Fund regulations or any regulations of rule touching the same by the contractor, the contractor shall submit an undertaking to indemnify the company to the extent of the loss incurred by the company.

1.27 The contractor should engage only those laborers whose age is 18 (eighteen) years or more.

1.28 The contractor shall not resort to subcontracting under any circumstances without prior permission of BHEL. If found sub-contracting at a later date, BHEL reserves the right to take whatever action it deems fit, including cancellation of the Contract.

1.29 The contractor shall provide the required safety equipment to the labors engaged by him / her.

1.30 Contractor shall issue "Employment Card" as per statute to all labour and supervisors covered under the job work contract.

1.31 The contractor shall be responsible to settle any grievances of the labour deployed by him / her within two weeks.

Chapter XIX-ANNEXURE-1

TECHNICAL BID DETAILS

Sl.No.	Document to be furnished	Status Yes/No
1	Declaration confirming knowledge about site conditions	
2	Terms & conditions acceptance letter	
3	Copy of PAN card	
4	Copy of EPF Registration code	
5	Copy of ESI Registration code	
6	Copy of GST Registration Number	
7	Copy of Tamilnadu Govt. License to operate private security	

I hereby certify that the details and documents furnished herewith are true to the best of my knowledge and belief.

Yours faithfully

Security Agency with Seal and Address

Chapter XX: Indicative Map

