

Section-IV : "PRICE BID & Schedule of payment"

BHARAT HEAVY ELECTRICALS LTD.



Name of Project: Construction of New building & services at BHEL Complex , Plot No. 25, Sector-16A Noida (UP)

PRICE BID						
Item No.	Description	Unit	Quantity	Rate quoted (In INR)	Amount quoted (in INR)	
					In words	In figures
1.00	Design, Drawing ,engineering and architectural consultancy for constructing new multi-storey office building with basement parking & other campus services on turnkey basis including soil investigations, topographical survey, quality testings , providing consultancy, design , drawing and engg. on various services, interiors, furnishings & furnitures and other infrastructural works (internal & external) including obtaining all statutory NOCs & GRIHA rating at BHEL complex Sector 16 A Noida The scope of work shall be as per the SCC, technical specifications and schedule of payment (stage payment under each Mile Stone) as attached with the tender . Rate also includes for providing services for : 1) Daily site supervision for field quality control of work execution at site and other allied works round the clock as per project requirement including Sundays & Holidays & even at short notices as directed by engineer. (2) Visiting Noida site or BHEL's Delhi office along with concerned experts for regular meetings with BHEL Officials even at short notices as directed by engineer	Lump Sum	1			
					Total Fee=	
					Add (Service Tax, secondary & higher education Cess) @12.36 % on Total Fee=	
					Grand Total=	



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Stages	ACTIVITY	Amount of payment released
mile STONE-I (as per time schedule of SCC)		
Stage 1(a)	Preparing documentation / drawings/ preliminary surveys etc required for obtaining time extension confirmation from NOIDA and upon receipt of time extension confirmation from NOIDA authority to establish "land use" for the proposed purpose / scope of construction work as per this tender by the contractor in accordance with the prevailing norms / by-laws of NOIDA authority before commencement of further work / services as per tender.	1% of the total fees payable along with applicable service tax.
Stage 1(b)	On submitting atleast two options for conceptual designs for presentation to higher management and rough estimate of cost , technical Specification ,de-packaging including submission of specifications for office building, basement parking, enabling works etc for Civil,structural , Electrical, services and other infrastructure development works e.g Boundary Wall with security gates ,Roads ,drains and sewerage Networks, UG tanks and Miscellaneous Works, Landscaping, Facelifiting of campus to match new building in the same campus alongwith Two additional floors on PPEI building and Southern Annex, Enabling works - shifting of MPL ,PMX, canteen and new project office along with construction power, water and site area lighting, Utility buildings design for New building and augmentation of PPEI facilities in view of construction of addnl. two floors and southern annex, Firewater PH and fire line networks,treatment plants , cable trenches/ other electrical works,design of all internal and external signages, access control syatem, LAN and telephone/ EPABX and maintenance philosophy or any other infrastructural works as required and as per scope of works in SCC and as directed by engineer-in-charge.	9% of the total fees payable along with applicable service tax.
Stage 2	On submitting package-wise detailed BOQ based estimates for establishing and declaring total project cost alongwith required preliminary scheme , design and drawings for obtaining provisional NOCs/ statutory clearances as required before start of work.	10% of the total fees payable along with applicable service tax.
Stage 3	On submitting Detailed Project Report (DPR) after and including completion of Soil Investigation & Topographical Survey works at site: The works to be executed under supervision and instructions of IIT officials (arranged by the bidder and all charges/ fees etc to be borne by the tenderer) and soil testing report/ recommendations to be accepted and approved by IIT for carrying out following works :	10% of the total fees payable along with applicable service tax.
	Carrying out topographical survey of plot no 25 sector-16A, Noida and allied areas showing all permanent & general features and detailed contour survey by taking spot levels at 25m interval, carrying out cross section of canal/nallah by taking spot levels at 5m interval or less including removing hindrances which are interfering with the survey works and any other field works necessary for the completion of the said item, preparation and submission of all plans (maps), reports, floppy and originals etc all complete as per specification and instructions of the engineer-in- charge.	
	Mobilisation of necessary equipments, men and materials to the project site for carrying out the geotechnical investigation and demobilisation of the same after completion of all the field works etc all complete as per specification, drawings and as directed by the engineer-in-charge.	
	Making 150mm nominal diameter bore hole approx 200m total depth at various locations upto a maximum of 25m depth blow ground level in all types of soil including laterite using suitable approved method of boring including chiselling, cleaning, providing casing pipes as required or as directed; performing standard penetration test at every 3m interval, at change of strata and at depths wherever undisturbed soil samples could not be collected; collection of undisturbed soil samples at every 3 m interval and at change of strata; collection of disturbed soil samples and water samples, sealing and packing of samples, observation such as ground water table etc; transportation of all the collected samples to the laboratory and back filling of boreholes with sand on completion of the same etc all complete as per specification and as directed by the engineer-in-charge and as per BIS code of practice.	



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Stages	ACTIVITY	Amount of payment released
Stage 3 (contd..)	Conducting plate load test total 2 Nos at various locations at specified depth complete as per specification, drawings and as directed by the engineer-in-charge. Rate to include cost towards making the pit of suitable size, maintaining it dry and backfilling etc as per BIS code of practice.	
	Performing dynamic cone penetration test total 2 Nos at various locations using 65mm cone with circulation of bentonite slurry etc all complete as per specification, drawings and as directed by the engineer-in-charge.	
	Conducting laboratory test on soil samples at an approved accredited laboratory and field in-situ tests including preparation of soil samples to determine the following properties etc all complete as per specification for – Bulk density and moisture content, Sieve analysis, Hydrometer analysis, Liquid limit and plastic limit, Shrinkage limit, Specific gravity, Swell pressure, Free swell index., Relative density, Unconfined compressive strength, Direct Shear test, Triaxial shear test, Unconsolidated undrained test, one dimensional consolidation test, Standard Proctor compaction test, CBR test, Chemical analysis, coefficient of elastic uniform compression from open test pit, allowable load bearing pressure under the static loads separately and combined static and dynamic loads, spring constant for vertical deformation, poisson's ratio, young's modulus and shear modulus as per requirement of soil test report.	
	Conducting chemical test on water samples (approx 10 nos) to determine the carbonate, sulphate, chloride and nitrate contents, pH value, turbidity, organic matter and any other chemicals harmful to foundation material etc. all complete as per specification.	
	Preparation and submission of geotechnical report approved and accepted by IIT comprising of geotechnical design parameter and recommendations, field and laboratory investigations and field testing related to sub soil investigations in 5 hard copies and 2 soft copies on CDs. The draft report in 3 hard copies to be presented first to BHEL including all field records, laboratory test results, graphs, analysis of test results and recommendation etc all complete as per specification. The DPR must include the final recommendations of the soil testing and survey reports.	
MILE STONE-II (as per time schedule of SCC)		
Stage 4	On submission of a 3D glass enclosed scale models of BHEL Complex , Sec-16A Noida (UP) of size 1 no. x 2m x 1.5 m after acceptance of DPR and Project estimated cost along with submission of coloured isometric architectural view in ten framed sets of high quality as per specifications	5% of the total fees payable along with applicable service tax.
Stage 5	Upon obtaining statutory approval along with provisional NOCs, signing of deeds, MOU or agreement (as required) with statutory or govt. bodies and preparation of detailed working drawings, technical specifications and schedule of quantities sufficient to prepare estimate of cost package-wise, preparation of tender documents (BOQ, Specifications and PQR etc), as per de-packaging; advising BHEL on appointment of contractors.	15% of the total fees payable along with applicable service tax.



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Stages	ACTIVITY	Amount of payment released
Stage 6	On incorporating client's suggestions and preperation and submission of design documents and releasing "good for construction" drawings with detailed architectural, finishing schedule, interiors details and structural drawings for all stages of work and including vetting of RCC structural designs and drawings from IITs (vetting fee / other charges to be borne by the tenderer) as per requirement along with submission of field quality plan (FQP) / quality check formats.	10% of the total fees payable along with applicable service tax.
MILE STONE-III (as per time schedule of SCC)		
Stage 7	(a.) On submitting final working drawing, design change notices based upon changes due to actual execution / final supplier's specifications , re-engineering and constructional details required for commencement of work at site	5% of the total fees payable along with applicable service tax.
	(b.) (i) On completion of 20% of the work (calculated based upon works contract value executed vis-a-vis awarded)	5% of the total fees payable along with applicable service tax.
	(ii) On completion of 40% of the work (calculated based upon works contract value executed vis-a-vis awarded)	5% of the total fees payable along with applicable service tax.
	(iii) On completion of 60% of the work (calculated based upon works contract value executed vis-a-vis awarded)	5% of the total fees payable along with applicable service tax.
	(iv) On completion of 80% of the work (calculated based upon works contract value executed vis-a-vis awarded)	5% of the total fees payable along with applicable service tax.
	(v) On virtual completion (declaration by consultant)	5% of the total fees payable along with applicable service tax.
Stage 8	On submitting Completion report and As-built drawings and upon submission of necessary documents & drawings for obtaining completion certificate / NOC / Occupancy certificate by statutory authorities,NOIDA etc.and submission of drawings for obtaining final statutory approvals / NOCs or other statutory aggreements/ deeds etc from the govt. bodies/ statutory and regulatory authorities submittals/ final documentations required to obtain GRIHA rating (arranged by tenderer and all fees / charges to be borne by the bidder) for the new building as per satisfaction of the engineer.	10% of the total fees payable along with applicable service tax.

NOTE: Part payment under each stage payment can be made based upon actual work / services executed & measured.