

## TALAIPALLI COAL MINING PROJECT

**SCOPE OF WORK AND TECHNICAL SPECIFICATIONS  
FOR  
REPAIR, RENOVATION & MODIFICATIONS OF EXISTING NTPC GHAGHODA  
OFFICE FOR SECURITY BARRACK**

**1.00.00 INTENT OF SPECIFICATION**

The intent of the specification is for execution of REPAIR, RENOVATION & MODIFICATIONS OF EXISTING NTPC GHAGHODA OFFICE and Field Hostel FOR SECURITY BARRACK at Talaipalli Coal mining Project, Gharghoda.

**1.00.01** The technical specification for REPAIR, RENOVATION & MODIFICATIONS OF EXISTING NTPC GHAGHODA OFFICE and field Hostel FOR SECURITY BARRACK includes all civil works, services, internal electrification works. The works shall have to be carried out both below and above ground level. The works shall be carried out at NTPC Gharghoda office, Gharghoda.

**1.00.02** The bidder is expected to get all doubts clarified in respect of interpretation of any portion of these documents before tendering, in writing with the owner.

**1.00.03** The technical specifications are attached with following appendices:-

Appendix- 6 List of Tender Drawings & BOQ.

**2.00.00 LOCATION**

The site of the proposed REPAIR, RENOVATION & MODIFICATIONS OF EXISTING NTPC GHAGHODA OFFICE FOR SECURITY BARRACK shall be located in the Gharghoda town.

**3.00.00 SCOPE OF WORK**

The scope of work includes the repair, renovation & modifications of NTPC GHAGHODA OFFICE **and field Hostel for Security barrack** consisting of PRE-ENGINEERED STRUCTURE, including repair, renovation and modification of super structure of steel with wall cladding, roofing and false ceiling, insulation, flooring, skirting and dado, service platforms, doors and windows, cupboards, sanitary installations, plumbing, internal & external electrification, separate OH tank, sewerage system including manholes, Septic Tank, Soak Pit, as per the schematic plan shown in Tenderdrawings and technical specifications.



**Detailed Specifications**

- 3.00.02** All works shall be performed in accordance with tender drawings, technical specifications, schedule of items, other tender documents and directions of the Engineer-in -charge. Item /items of work though specified in the Schedule of items for which detailed specifications are not given in the technical specifications, shall be performed as per CPWD Specifications and/or best available industry practices.
- 3.00.03** The bidder shall inspect the site. Accordingly detailed repair and renovation works based on tender drawings shall have to be carried out by bidder taking into considerations the requirements submitted with the tender.
- 3.00.04** The successful bidder shall have to repair and renovation of the structure within the stipulated time; completion of work in all respect shall have to be carried out to the satisfaction of Engineer-in -charge.
- 3.00.05** The work to be performed under this specification includes providing all labour, supervision including Contractor's and specialized supervision, all materials (including cement, structural steel, reinforcement steel) and consumables, temporary storage sheds, temporary site office, construction equipment, scaffolding, fuel supply, tools and plant, transportation, technical personnel, all sampling and testing, providing necessary facilities and equipment to Engineer-in-charge for carrying out the inspection and quality check, setting out layout and levels, carrying out construction and erection in a mechanized manner, making all safety arrangements, storage, repair/rectification / maintenance until handing over and all incidental items not shown or specified but reasonably implied or necessary for the successful completion and proper functioning of the gate complex etc. and other services all in strict accordance with the Schedule of Items and quantities, Technical Specification and Drawings complete, as per the Direction of and to the satisfaction of the Engineer-in-Charge.

Sl. No.	Item Description	Unit
1	Providing & Fixing <b>Internal partition</b> made of 38 x 38 x 1.6mm MS tubular Hollow pipes grid framing @ 600 mm x 600mm c/c consisting of 8 mm thick laminated fibre board / 8mm thick SFB on both sides . The SFB confirming to IS 14862 & ISO 8336:1993 (E) having density > 1200 kg/m class (I) surface spread of flame & fire propagation index < 3 as per BS - 476 part 6 & 7. The ignitability, heat evolved, flame spread & smoke evolved index class should be zero index and fire resistance for ½ hour fire rating as per ISO 809 - 1979 & pre laminated board having density around 500 kg/m and screw holding of 125 kg. & no traces of discoloration or bubbles with heat or steam and cracking effect even at 70 o C for 24 hours complete as per direction of engineer-in-charges.	sqft
2	32 mm thick Self-grained textured skin moulded doors with powder coated aluminium hardware over UPVC frames of 60 x 30 mm complete with mortis lock ,tower bolt ,stopper & door closer etc finished with 2 or more coats of PU silicion paint as per direction of engineer-in-charges.	nos
3	Provision of Canopy over main entrance complete with MS Tubular framing in coloumns , false ceiling ,Trusses and Purlins etc with 0.5 mm precoated roofing profile with 8 mm thick SFB false ceiling complete.	sqft
	TOILET BLOCKS	
	CIVIL WORKS	
	Providing 600 mm high CC base plinth platform base with PCC(1:4:8) with peripheral brick work all around, filled with soil/rubble/locally available filling material compacted for grouting of pillars of prefab structure inpockets with 70 mm thick CC 1:2:4 Complete (54' x 17') x 2 blocks.	sqft
	Fabricating, Supplying and Erecting at Site Prefabricated, Double Layer, Insulated Toilet Block Building (50' x 13' x 2 blocks) consisting of the following- Main MS frame of Pillars of MS tubular 58mm x 58mm (14G) with MS standard bracing of 38mm x 38 mm (18 G) with vertical grid @ 2ft c/c and horizontal grid @ 2.5ft c/c complete with anticorrosive coating after applying a coat of red oxide primer and with 8mm thick base MS flanges (140mm dia) to be grouted up to desired height in existing CC floor / platform provided at site.  The frame work of roofing shell be in double layer with purlins@800 c/c (appr.) for proper fixing of 0.5 mm pre-coated Roofng profile in Roofing fixed with 50mm x 12 SDS @800 C/C and lower grid shall be 4ft center to center both ways including providing & fixing both side 8mm pre laminated /SFB false ceiling with moldings. The roofing shall be leak proof and projected by 500mm on front & sides covered with 6mm thick compressed PVC sheets false cieling in exteriors.  Outer wall 10 mm thick SFB cladding confirming to ISO 8336:1993 (E) having density > 1200 kg/m class (I) surface spread of flame & fire propagation index < 3 as per BS - 476 part 6 & 7. The ignitability, heat evolved, flame spread & smoke evolved index class should be zero index and fine resistance for ½ hour fire rating as per ISO 809 - 1979. The outer cladding should be fixed over steel grid by self threaded studs etc. The internal wall cladding should be 8 mm thick with CFB with silicon coating. Insulation of alkali resistant, non-deteriorating closed cell non cross linked polymer junction filler having minimum density 16 kg / m3 and compressive strength of 0.21 kg/ m2 ( as per ASTM - D - 3575 ) and Insulation of 25 mm thick glass wool of 16 kg/cum in walls shall be provided. All joints & corners should be covered with similar wall finish mouldings on inside claddings & fibre rein forced skirting all over the cabin. Outer cladding shall be treated with transparent silicon coating & polyurethane texture coating of approved finish over thick layer of PU epoxy & fire resistant polymer coating in desired areas complete.	sqft
	Provision of 8 mm thick Ceramic tiles of 600x600mm in flooring of desired shade and texture, layer and fixed over existing CC Base with 1:4 cement mortar to match the line and	sqft.

	level with the existing floor wherever required as per directions of engineer-in-charge.	
	Provision of 6 mm thick ceramic tiles 300x300mm/ or any other size over walls or of desired sizes and designs upto desired height over wet areas fixed with RTV silicon sealant under water high resistant silicon epoxy as per drawing & specifications as per the directions of the Engineer in charge.	sqft.
	Providing Toilet Fixtures for Gents , Ladies toilet including internal drainage & Sewerage piping complete with provision of ceramic wall tiles upto +6' over wet areas fixed with RTV silicon sealant under water high resistant silicon epoxy as per drawing & following specifications : Toilets of specified size shall be provided with single piece European type/Indian type WC pan with slim line PVC cistern (make Parry ware, Jaguar, Hindustan, Cera, or equivalent ) & wash basin wherever required in moulded marble top with CP pillar cock with designer mirror, soap dispenser, towel ring etc. and complete with inside UPVC/PVC pipe lining . All fittings and fixtures shall be of reputed/approved make and as per relevant Indian standards and directions of engg in charge. (Tiles to be paid for separately)	nos
4	Provision of interconnected 1000 litres x 5 water storage tanks with 6mtr high staging of size 6.5mt*1.5mt made of ISMC 125 with MS tubular bracing of 60 x 30mm / 38x38mm with ISMC 75 supports allaround under tanks to be placed over 5mm thick MS chequered plate platform complete with single stair case and 3' high MS tubular railing with 25mm dia inlet pipe & 40mm dia outlet pipe (up to foundation level) of UPVC / CPVC , gate valve and other accessories etc	set
5	Construction & Commision of underground septik tank of 7m x 2.8 m x 2 m depth with soak pit ,inspection chamber etc all kind of civil work consiting of 230 mm peripehrial honey combed brick work covered with 100 mm RCC slab along with sewerage piping for inlet /outlet /vent etc.	set
6	Strengthening of Prefabricated, detachable, double layer insulated structure office building i/c Replacement of damaged wall claddings,false ceiling & Repair of existing structural members wherever required along with replacement of electrical fixtures as per the requirement i/c repainting &Dismantaling of the existing structure for construcion/renovation i/c disposal of rubbish as per directions of engineer-in-charge.	sqft
7	10 mm thick Silica Fibre Board Wall cladding-outside	sqft
8	8 mm thick Laminated Fibre Board Wall cladding -inside	sqft
9	8 mm thick Laminated Fibre Board False ceiling	sqft
10	0.5 mm thick pre coated Roofing profile	sqft
11	Repainitng with silicon finish over PU Texture base outside	sqft
12	Repainitng with silicon finish over inside	sqft
13	Provision of replacement of damaged tiles & sanitary fixtures wherever required.	sqft
14	Internal Electrification I/C Concealed Copper Wiring, Fan & Plug points as per following specifications and directions of Engineer-in-charge as per drawing with 2 x 28w twin reflective luminary /20 w LED Batons and ceiling Fans with concealed copper wiring in walls & roof with concealed multi stand copper wiring of 2 x 2.5 mm Sq mm for ( 5 Amp ) , 2 x 4 Sq mm for power ( 15 Amp ) points and 2 x 6.00 Sq mm for A/C points with metacolate / industrial sockets for AC's in concealed PVC conduiting with proper earthing with 1.5 Sq mm copper wiring . The internal electrification should be terminated to the relevant main distribution board complete as per direction of engineer-in-charges.	
a)	5A SWITCH	Each
b)	5A SOCKET	Each

<b>c)</b>	Point for AC/Cooler (INCLUDING SWITCH SOCKET)	Each
<b>d)</b>	Point For Water Cooler/RO Etc.	Each
<b>e)</b>	RCCB point near -Water Cooler /RO etc.	Each
<b>f)</b>	CEILING FAN	Each
<b>g)</b>	FAN SWITCH	Each
<b>h)</b>	FAN REGULATOR	Each
<b>i)</b>	EXHAUST FAN	Each
<b>j)</b>	EXHAUST FAN POINT	Each
<b>k)</b>	12W LED RECESS LIGHT	Each
<b>l)</b>	12W LIGHT POINT	Each
<b>m)</b>	15W LED RECESS LIGHT	Each
<b>n)</b>	15W LIGHT POINT	Each
<b>o)</b>	15/16A POWER POINT	Each
<b>p)</b>	DISTRIBUTION BOARD	Each

## TECHNICAL SPECIFICATIONS

**(A) Agency shall submit as built drawings for approval as per instruction of EIC.**

**(B) Make/Vendors for Bought Out Items (Civil):**

SI No	Item	Make
1.	Structural steel & Reinforcement steel	Reputed make as approved by EIC
2.	Colour coated galvanised iron profile sheets	Reputed make as approved by EIC
3.	Cement	Reputed make as approved by EIC
4.	Aluminium sections	JINDAL/NALCO/HINDALCO/ Reputed make as approved by EIC
5.	Vitrified/Ceramic tile	KAJARIA /JOHNSON / Reputed make as approved by EIC
6.	Sanitary fittings	CERA/PARRYWARE/HINDWARE/ Hindustan/ Reputed make as approved by EIC
7.	Plumbing items	Reputed make approved by EIC
8.	CP brass fixtures	Reputed make As approved by EIC
9.	Over head tank	Reputed make As approved by EIC
10.	Gypsum board for False ceiling	Reputed make approved by EIC
11.	Paint	Reputed make approved by EIC

**TECHNICAL SPECIFICATION, BOI LIST & QUALITY CLAUSE:**

**TECHNICAL SPECIFICATION:** All Items & Works to be executed as per the drawing and CPWD Spec. of the item or similar & equivalent item of CPWS Spec., and /or complying with the standard construction practices, to meet the requirement & satisfaction of site engineer / EIC.

**BOUGH-OUT ITEMS (BOI) LIST:** All Bought out items must be in line with BOQ item specification and to be of BIS approved make /relevant ISI marked (as required), and of NTPC approved make or equivalent approved by EIC.

**QUALITY CLAUSE:** Receipt inspection of materials at site as per BOQ, relevant IS & approved make, and compliance of standard quality tests as decided by EIC.

**TECHNICAL SPECIFICATIONS**

**10.00.00      METHOD OF MEASUREMENT**

**10.00.02      All measurements shall be as per BOQ round to two decimal places**

**Rate : -**      The rates shall include the cost of all labour and materials involved in all the operations described above in the specifications.





NTPC LIMITED		Name of Agency:		INDICATIVE FIELD QUALITY PLAN				PO NO:	
		Name of Agency		Name of Agency				Name of Agency	
		Address:		Name of Client : NTPC Limited				TLCMP / FQA / FQP / Prefab office Maint. /	
				Name of Work: Repair, Renovation & modifications of existing NTPC Ghaghoda office for security Barrack at TLCMP.				/02	
				Type of Check / Instrument				Format of Records	
				Class of Check				Remarks	
				Quantum/ Frequency of check					
				Reference Document / Acceptance Standard					
<b>A. CIVIL WORKS / ITEMS</b>									
<b>1 EARTHWORK</b>									
a	Excavation and Back Filling	Line & Level	Visual / Physical	B	100%	Drawing / CPWD Spec.	Site Register		
b	Dimensional Checks	Dimensions	Physical	B	100%	Drawing / CPWD Spec.	Site Register		
c	Ante Termite Treatment	Material & Application	Doc. Review, Visual Physical	B	100%	Drawing / CPWD Spec.	Site Register / test Report		Material as approved by NTPC
<b>2 CONCRETE &amp; ROAD WORKS</b>									
a	Reinforced Steel	Make	Review of Doc.	A	Each lot	Relevant IS / CPWD/NTPC Tech Spec	TR / Site register		Makes: SAIL, TISCO, RINL, ESSAR, JINDAL, APOLLO, MSP/ As approved by EIC
b		BBS / Dimension / Placing	Physical	B	Each Pour	Drawing / CPWD Spec.	Site register / Pour Card		
c	Cement	Make & Week	Review of MTC	B	Each lot	Relevant IS / CPWD/NTPC Tech Spec	TR / Site register		Makes as mentioned in Terms & conditions: ACC, CCI, ULTRATECH, GUURAT/AMBUJA, As approved by EIC
d	Fine Aggregate	Gradation	Physical	B	Once per source	IS: 383	Site register / Test Report		
e	Coarse Aggregates	Gradation, Water Absorption, Specific gravity, Impact value	Physical	B	Once per source	IS: 383, IS: 2386	Site register / Test Report		
f	Concrete Mix	Mix Proportion	Physical	B	Once per source	Relevant IS Standards / CPWD Spec.	Test Report & site Register		
g	Concrete Cubes	Compressive Strength	Physical	A	One set per 5 cum or part there off / As decided by EIC	Relevant IS/ CPWD/NTPC Tech Spec	TR / Site register		
h	Workmanship	Mix ratio / Vibration /Curing	Visual / Measurement	B	100%	CPWD Spec	Site Register / Pour Card		
i	Shuttering & Formwork	Dimensions / Shape / Tightness / smoothness	Visual / Measurement	B	100%	Drawing / CPWD Spec.	Site register / Pour card		
j	Curing of Concrete works	Proper Curing	Visual	B	100%	As per CPWD Spec	Random Monitoring		
<b>3 STEEL WORKS</b>									
a.	Structural steel Materials	Make	Review of TC / Relevant Doc.	A	100%	Relevant IS/ CPWD / NTPC Tech Spec	TR / Site register		Approved Manufacturer, rerolled steel shall not be allowed, Make: ESSAR, Tata, JSW, Bhushan, MSP/ approved by EIC
b	Sectional Dimensions & Weight	Dimension / Sectional Weight	Physical	B	100%	Relevant IS/ CPWD/NTPC Tech Spec	TR / Site register		
c	Welding & workmanship	Proper welding	Visual	B	100%	Relevant Standards	Site Register		
d	Structural Steel Painting	Make, Cleaning & Finish	Visual	B	100%	As per Drawing / CPWD Spec.	Site Register		Colour / Shade / Make as approved by EIC

NTPC LIMITED		Name of Agency:		INDICATIVE FIELD QUALITY PLAN				PO NO:	
TALAIPALLI		Address:		Name of Client : NTPC Limited		Name of Agency		TLCMP / FQA / FQP / Prefab office Maint. /	
				Name of Work: Repair, Renovation & modifications of existing NTPC Ghaghoda office for security Barrack at Talcamp.		FCP NO.:		/02	
				Quantum/Frequency of check		Page No. :			
				Class of Check		DATE:			
				Type of Check / Instrument		Reference Document / Acceptance Standard		Format of Records	
				Characteristics		Remarks			
<b>4 BRICKWORKS / PLASTERING / FLOORING / PAINTING &amp; OTHER FINISHING WORKS</b>									
a	Bricks	Compressive strength / Water absorption / Check for dimensions	Physical	A	Once per Source or as decided by EIC	Relevant IS/ CPWD /NTPC Tech Spec	TR / Site register		
b	Brick Work: Workmanship	Line / Level / Mix Proportion / Finish / curing	Physical	B	100%	Drawing / CPWD Spec.	Site Register		
c	Plastering	Line / Level / Finish / Curing	Visual / Physical	B	100%	As per Drawing / CPWD Spec.	Site Register		
c	Workmanship	Line & Level / thickness / Joint Finish	Physical	B	100%	Drawing /CPWD/ NTPC Tech Spec	Site Register		
d	Painting- Plastering & Wooden Works	Make, Cleaning & Finish	Visual	B	100%	As per Drawing / CPWD Spec.	Site Register		Colour / Shade / Make as approved by EIC
e	CC Flooring / Plinth Protection / Roof Grading	Dimension / Slope /Level / Finish	Physical	B	100%	Relevant IS/CPWD/ NTPC Tech Spec	Site register		Make & types of tiles to be as approved by EIC
f	Tiling works (Vitrified Tiles, Antie Skid Tiles . Ceramic Tiles)	Dimension / Slope /Level / Finish	Physical	B	100%	Relevant IS/CPWD/ NTPC Tech Spec	Site register		Make & types of tiles to be as approved by NTPC/ EIC
<b>5 PREFAB PRE-ENGINEERING BUILDING ITEMS /DOORS /WINDOWS</b>									
a	GI-PUF Panels	Make / Dimension	MTC / Doc. Review	A	Each Lot	Tech. Spec / CPWD Spec. / Relevant Codes	Site register		Make as approved by NTPC / EIC
b	Gypsum Ceiling Boards	Make / Dimension	MTC / Doc. Review	A	Each Lot	Tech. Spec / CPWD Spec. / Relevant Codes	Site register		Make as approved by NTPC / EIC
c	Fibre Cement Board	Make / Dimension	MTC / Doc. Review	A	Each Lot	Tech. Spec / CPWD Spec. / Relevant Codes	Site register		Make as approved by NTPC / EIC
d	Textured Paint	Make / Colour / Application	Doc. Review, Visual Physical	B	1	Relevant IS/CPWD/ NTPC Tech Spec	Site register		
e	False Ceiling material	Make, Dimension, type & fixing	MTC Review	B	1	As per Drawing / BOQ / Tech Spec	TR / Site register		
<b>6 SANITARY &amp; PLUMBING ITEMS</b>									
a	PVC Pipe	Make/ Dimension/ ISI Mark	Visual / MTC Review	B	100%	As per Drawing / BOQ / Tech Spec	TR / Site register		ISI Marked (where applicable)/ NTPC Approved Make / As approved by EIC
b	Sanitary / Plumbing Items	Make/ Dimension/ ISI Mark	Visual / MTC Review	B	100%	As per Drawing / BOQ / Tech Spec	TR / Site register		ISI Marked (where applicable)/ NTPC Approved Make / As approved by EIC
c	Workmanship of Sanitary / Plumbing works	Water tightness / finishing	Visual Physical	B	100%	As per Drawing / BOQ / Tech Spec	As per Drawing / BOQ / Tech Spec		
d	Bath Room / Kitchen / Toilet Items	Wash basin, Sink, Pan, Cistern, CP Brass items	Visual Physical	B	100%	As per Drawing / BOQ / Tech Spec	As per Drawing / BOQ / Tech Spec		Make and type to be as approved by NTPC / EIC
e	Polythene Water Storage Tank	Make / Capacity, / Colour	Doc. Review, Visual Physical	B	100%	CPWD Spec. / Relevant IS / Codes	TR / Site register		Make as approved by NTP / EIC
<b>7 ALUMINIUM &amp; GLASS / DOOR / WINDOWS WORKS</b>									
a.	Aluminium Materials	Make	Review of TC / Relevant Doc	B	100%	Relevant IS/ CPWD / NTPC Tech Spec	TR / Site register		Execution may associate FOA.
b	Sectional Dimensions	Dimension / Sectional Weight	MTC / Document Review	B	100%	Relevant IS/ CPWD /NTPC Tech Spec	TR / Site register		
c	Doors & Windows	Size, Dimension, Fixing & Operation	Visual / Doc. Review / Phy	B	100%	As per Drawing / BOQ / Tech Spec / Site requirement	TR / Site register		

NTPC LIMITED		Name of Agency:		INDICATIVE FIELD QUALITY PLAN				PO NO:	
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		Address:		Name of Client : NTPC Limited				Page No. :	
				Name of Work: Repair, Renovation & modifications of existing NTPC Ghaghoda office for security Barrack at TLCMP.				Date:	
Sl. No.	Item / Activity / Description	Characteristics	Type of Check / Instrument	Class of Check	Quantum/ Frequency of check	Reference Document / Acceptance Standard	Format of Records	Remarks	
d	Lucks & Door fittings / Fixtures	Make & Fixing	Visual / Doc. Review / Phy	B	100%	As per Drawing / BOQ / Tech Spec / Site requirement	TR / Site register		
e	Doors & Windows (Flush Doors / PVC Doors)	Dimension, proper fixing	Visual / Doc. Review / Physical	B	100%	As per Drawing / BOQ / Tech Spec	TR / Site register	Make & Design to be approved by NTPC	
f	Ventilators	Material, Make, Dimension, Fixing	Visual / Doc. Review / Physical	B	100%	As per Drawing / BOQ / Tech Spec	TR / Site register		
<b>8 MISCELLANEOUS ITEMS &amp; WORKS</b>									
i	SS Wire Mesh	Dimension, Thickness, Size	MTC Review	B	100%	As per Drawing / BOQ / Tech Spec	TR / Site register		
ii	Glass Items / frosted glass	Check for Material, Items & thickness	Visual / Doc. Review / Phy	B	100%	As per Drawing / BOQ / Tech Spec	TR / Site register	ISI Marked (where applicable)/ NTPC Approved Make / As approved by EIC. Execution may associate FQA.	
iii	Acceptance & Workmanship of Aluminium & Glass Works	Dimension & fixing	Visual / Physical	B	100%	CPWD Spec / As per Site requirement / drawing	TR / Site register		
iv	Other Bought out Items	Make/ Dimension/ ISI Mark	Visual / MTC Review	B	100%	As per Drawing / BOQ / Tech Spec	TR / Site register	ISI Marked (where applicable)/ NTPC Approved Make / As approved by EIC	
<b>B. ELECTRICAL WORKS / ITEMS</b>									
i	Electrical Materials (Cables, Conduits, Switches, Socket, Wires etc)	Make / Type / Capacity / ISI Mark	Physical	B	100%	IS:694, IS:1554 pt-1, IS:732-1989, NTPC Specs	Site Register	NTPC approved makes/ As approved by EIC	
ii	Electrical Materials- Fixtures (Fan, Tube Light, Split AC, Concealed Light etc.)	Make / Type / Capacity / ISI Mark	Physical	B	100%	Relevant IS	Site Register	NTPC approved makes/ As approved by EIC	
iii	Installation, Fixing Erection of Fixtures- LAN / Telephone Connection	Layout, Connection, commissioning	Physical	B	100%	CPWD Spec. & Relevant IS	Site Register		
iv	Earthing Materials	Make / Type / Capacity / Thickness / ISI Mark	Physical	B	100%	IS:694, IS:1554 pt-1, IS:732-1989, NTPC Specs	Site Register	NTPC approved makes/ As approved by EIC	
v	Earthing Arrangement	Earthing	Physical	A	100%	NTPC Specs	Site Register	Earthing test at site as decided by EIC	
<b>NOTE:</b> This Quality Plan is for guidance only. And the work is to be executed to the satisfaction of Engineer in-Charge, as per contract and agency to submit documents as required by EIC.									
Signature & Seal of Contractor				<b>LEGEND:</b>					
				A- Critical check (witnessed by FQA & Execution)					
				B- Major check (witnessed by Execution)					
				Execution / Infra		FOA			
				Name & Seal of Approving Authority		Name & Seal of Approving Authority			

## **NAME OF WORK: Repair, Renovation & modifications of existing NTPC Ghaghoda office for security Barrack**

### **Special Terms & Conditions**

1. The agency shall inspect and examine the site/ area and its surroundings and shall satisfy self as to the form and nature of the site, the quantities and nature of work, working condition, equipments /materials necessary for the completion of the work and the means of access to the site, accommodation and other facilities available in general, shall obtain all necessary information. The agency shall take into account the appropriate risks, contingencies and other circumstances that may arise at the area to be executed and which may influence or affect the price before quoting for the bid.
2. **Location:** NTPC-TLCMP Gharghoda Office, Gharghoda Taluk of Raigarh District, Chhattisgarh state.
3. **Time Period:** Time is the essence of the contract. The total work is to be executed and completed within a period of 4 months from the date award of work.
4. **Date of Start:** As per LOA or as decided by EIC.
5. **Work Plan:** Detailed work schedule/programme along with site organization chart shall be submitted by the agency within ten days from the date of award of work.
6. **Defect Liability Period:** as per GCC
7. **CAR Policy:** as per GCC
8. **Security Deposit:** Security Deposit shall be applicable and shall be as per SCC/ GCC.
9. **Liquidated damages: Liquidated damages** shall be applicable and shall be as per SCC/ GCC.
10. **ACCOMMODATION:** The Company shall not be liable to provide either accommodation or garage facilities to the vehicle / contractor or his employees.
11. **Variation in quantity:** as per GCC
12. **Extra item/Substitute Item:** As per GCC.
13. **Price Escalation:**
14. The contract shall be executed on FIRM PRICE BASIS i.e. the rates quoted shall be firm during execution and completion and additional claim for lack of knowledge shall not be entertained.

## 15. Special Instructions:

- i. Agency should provide mobile phone to supervisors deployed for the work for proper communication and execution and coordination with NTPC, with no extra cost to NTPC.
- ii. All the work shall be executed as per instruction of Engineer In Charge. Measurement shall be taken jointly & recorded. Agency is responsible for getting measurement jointly and maintaining record properly. Agency has to make all the arrangement like machinery, tools, manpower, and transportation for taking measurement on his own cost. All underground measurement shall be taken by agency parallel to execution of work before hiding or before execution of next activity. No claim shall be entertained in this regard in absence of joint measurement. Agency shall submit the bill as per NTPC instruction in Excel format with details of work, measurement detail, calculation, material reconciliation, material receipt and consumption and others documents in Excel format complete.
- iii. After completion or part completion of job, the area is required to be cleared from all construction or waste materials etc.
- iv. Agency shall take care during the painting work. If required additional supervisor for supervision of painting work shall be deployed. All the painting work shall be done with full precaution and safety measures. No extra cost for this shall be paid by NTPC.
- v. No extra payment/claims shall be considered for any wastage or idle labour/time as the buildings / structure are occupied.
- vi. All the surfaces which are treated as old or new, shall be decided by Engineer-in-charge and prior approval shall be taken before executing the work.
- vii. While quoting the rates for fixing new fittings pertaining to carpentry, plumbing, sanitary etc, the agency has to maintain the record removal of old existing fitting also and no separate payment shall be made on this account. Dismantled items/materials shall be properly deposited to NTPC as per instruction of EIC.
- viii. Agency has to attend the maintenance work during night also if required as per instruction of EIC.
- ix. The defective materials (scrapped items), that are replaced in the contract, shall remain the property of NTPC; which shall be handed over and stored at the designated place, as per the instructions of EIC

**NAME OF WORK: Repair, Renovation & modifications of existing NTPC Ghaghoda office for security Barrack**

16. The contractor shall not object to execute any extra item, if necessary, for completion of the work with prior permission of Engineer-in-charge. The rates of such items will be determined as per G.C.C.

**17. Accidents:**

- a) Any accident occurred at work place while being used by the Company, expenses to be made for all types (Third party damage/fatal accidents/ damages/theft etc. ) is the solely responsible of the contractor. NTPC will not pay any amount on this account or such type of accidents/incidents.
- b) The contractor shall cover this risk adequately by obtaining comprehensive insurance policies.
- c) The contractor shall make his own arrangement for stay of his staff & manpower. The contractor will be responsible for providing treatment and associated expenses for all kind of injuries in the event of accident caused to his staff, workers & NTPC will not be liable in this matter.
- d) The contractor or his employees shall not at any time cause or permit any nuisance or damage to properties on the site and office and or do anything which shall cause unnecessary disturbance or inconvenience to the owners, tenants or residents and the public in general.

18. The General Conditions of Contract (GCC) and Special conditions of Contract of NTPC shall also be form the part of contract.

19. All the required quantity of **Steel, Cement, and any other materials** required in completion of work as per specification is to be **arranged and supplied by the contractor from approved brand/supplier and NTPC will not be issuing any materials whatsoever.** The rates quoted shall be inclusive of these materials of required quality/quantity.

20. The technical specification & requirement are indicative only but not exhaustive. Any facilities which are otherwise required for the completion of the work may be incorporated by NTPC if required.

21. The work shall be done to the satisfaction of Engineer-in-Charge and all correspondence related to this work is to be addressed to him.

## TECHNICAL REQUIREMENTS

Above list of T&P is only indicative & not exhaustive, however, arranging all necessary T&P required to complete job satisfactorily lies in the scope of agency.

- 22.** The contractor will be required to take all safety measures during work at his own cost. For non-compliance of safety measures, suitable penalty will be imposed and the decision of Engineer-in-charge in this regard shall be final and binding on the contractor.

### **23. NTPC SCOPE:**

- i. Supply of electricity will be provided free of cost, being maintenance work at different locations Gharghoda office, agency has to tape off supply from nearest electricity point. Agency has to arrange appropriate type of electric cable of required length with proper plug etc. as needed for safe working with all safety norms.
- ii. Water shall be provided free of cost for execution of work, being maintenance work at different locations in Gharghodaoffice area, agency has to take water supply from nearest water point.

### **24. Terms of Payment:**

The Contractor / Successful bidder will be paid one R.A. bill preferably once in a month as per actual measurement. This progressive payment shall be released after certification by Engineer-In-Charge that the works have been performed in accordance with the technical specifications. However, the release of first progressive interim payment shall be subject to submission of all the documents related to statutory compliances (WC Policy etc..) as per the contract Documentary evidence should be produced by the contractor towards conformance to these as per relevant provisions of GCC, tender documents and acceptance of the same by Engineer-In-Charge.

- a. Payment Mode: By /EFT/RTGS/online mode
- b. Tax, Duties, cess or any other deductions as applicable at the time of payment shall be deducted.
- c. GST shall be paid extra as applicable.
- d. Security Deposit: SD will be deducted as per General Conditions of Contract.

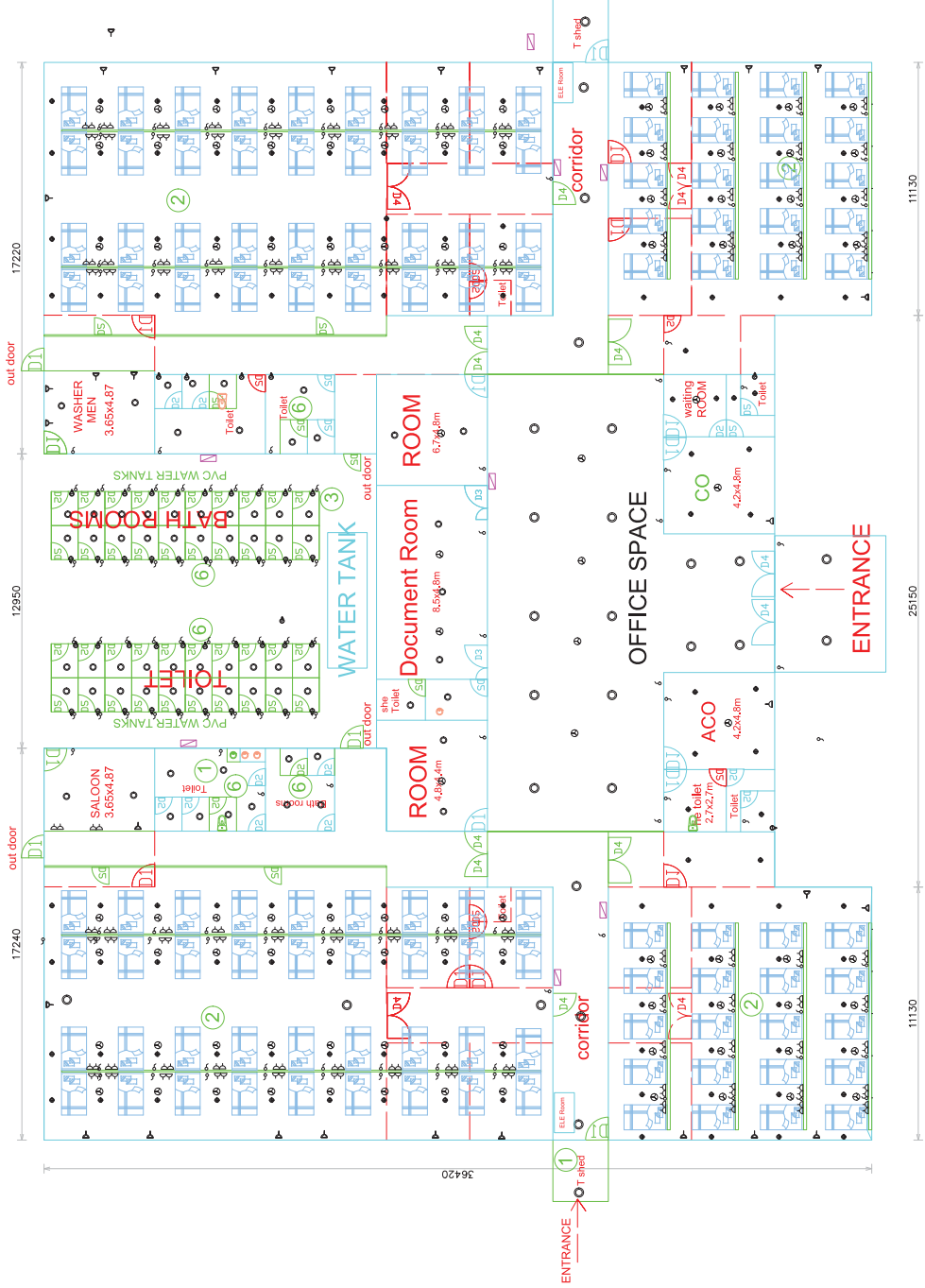
# Renovation of Gharghoda Office for Temporary CISF Barrack

S. No	Description
1	Entrance at Barrack with Shed
2	Proposed Barrack – 112 Nos. Bed
3	<b>Proposed Water Tank with Structure</b>
4	Proposed Additional Septic tank
5	Renovation of Fire Water tank
6	Proposed Toilets & BATHROOMS
7	Office Area = 350 sqm
8	Barrack AREA =1050SQM

Fire Tank  
5

4

septic tank



	15 watt LED Light
	1200 mm Ceiling Fan
	EX. Fan
	DB
	Switch Board
	15 Amp - Corder/A/C socket with switch
	15 Amp socket with Switch
	5 Amp socket with Switch

Existing Structure ( Dismantle & Demolish ) - - - - -  
Existing Structure ( Repair&Renovation ) \_\_\_\_\_  
New Structure \_\_\_\_\_



