

**निविदा सूचना ई-टेण्डरिंग  
(द्वितीय काल)**

भारत के राष्ट्रपति की ओर से क्षेत्रीय मुख्यालय अभियन्ता, क्षे०मु० (शिमला) भा०ति०सी०पुलिस द्वारा निम्नलिखित कार्य के लिये के०लो०नि०विभाग, राज्य लोक निर्माण विभाग, बी०आर०ओ०, एम०ई०एस, रेलवे, और बी०एस०एन०एल विभाग में पंजीकृत फर्मों ठेकेदारों जो उपयुक्त वर्ग में अनुमोदित हो और सिविल (भवन/पी०एच०ई०/सेनेट्री) निर्माण श्रेणी में कार्य करने हेतु पंजीकृत हो, से आनलाईन टू बिड सिस्टम प्रतिशत दर के आधार पर निविदा आमंत्रित की जाती है:-

S. No	Name of Work	Estimated Cost	EMD amount	Completion time
1	Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19 <sup>th</sup> BN ITB Police , Sarahan Distt Shimla (H.P.)	Rs. 77,64,797/-	Rs. 1,55,296/-	06 Months

निविदा संबंधित महत्वपूर्ण तिथियाँ:-

क्र.सं	विवरण	समय एवं तिथि
01	प्रकाशित करने की तिथि एवं समय	20-05-2026 at 09:00 Hrs
02	दस्तावेजों के डाउनलोड की प्रारम्भिक तिथि	20-05-2026 at 09:00 Hrs
03	स्पष्टीकरण आरम्भ तिथि	20-05-2026 at 09:30 Hrs
04	बिड जमा करने की प्रारम्भ तिथि	20-05-2026 at 09:30 Hrs
05	स्पष्टीकरण प्रस्तुत करने की अंतिम तिथि	10-06-2026 at 16:00 Hrs
06	बिड जमा करने की अंतिम तिथि	11-06-2026 at 15:00 Hrs
07	सक्षम अधिकारी को पेज सं० 08 के अनुसार बिड दस्तावेजों की मूल ई०एम०डी० जमा करने की अंतिम तिथि एवं समय	11-06-2026 at 15:00 Hrs
08	निविदा खोलने की तिथि	12-06-2026 at 15:30 Hrs

1. निविदाये प्रस्तुत करने की अंतिम तिथि तक ठेकेदारों की पंजीकरण मान्य होनी चाहिये, यदि निविदा प्रस्तुत करने की अंतिम तिथि बढ़ाई गई है तो निविदा प्रस्तुत करने की मूल तिथि पर ठेकेदार की पंजीकरण मान्य होनी चाहिये।
2. इच्छुक बोलीदाता को टेन्डर फार्म के नियमों और शर्तों को ध्यान से पढ़ना चाहिये। केवल उसी बोलीदाता को अपनी निविदा प्रस्तुत करनी चाहिये जो कि अपने आप को इस निविदा की शर्तों के अनुसार खुद को योग्य समझता है और उसके पास सभी आवश्यक दस्तावेज उपलब्ध है।
3. वेबसाइट पर प्रकाशित, सूचना और निर्देश बोलीदाताओं के लिये, निविदा दस्तावेज का हिस्सा होंगे।
4. निविदा दस्तावेज जिसमें संबंधित कार्य का प्लान, मानक, कार्य हेतु निष्पादित किये जाने वाले आईटम नियम एवं शर्तों का पालन करने के लिये और अन्य आवश्यक दस्तावेजों को वेबसाइट पर [www.eprocure.gov.in](http://www.eprocure.gov.in) एवं [www.itbp.gov.in](http://www.itbp.gov.in) से देखा और डाउनलोड किया जा सकता है।

5. निम्नानुसार स्कैन किये गये अनिवार्य दस्तावेजों के निम्न सूची के अनुसार अपलोड करने के बाद ही निविदा प्रस्तुत की जा सकती है (निविदा प्रपत्र के पेज सं० 07 के पैरा 24 के अनुसार):-
- (i) उचित वर्ग में मान्य पंजीकरण की प्रति।
  - (ii) दस्तावेजों के अनुसार पेज सं० 07 के क्रमांक सं० 24(IV) के अनुसार जिस स्थान पर कार्य संपादित किया जाना है, उक्त हेतु जी.एस.टी. पंजीकरण की प्रति या फिर घोषणा पत्र।
  - (iii) निविदा प्रपत्र विधिवत फर्म की मुहर के साथ हस्ताक्षरित होने चाहिये।
  - (iv) कार्य/कार्यों के अनुभव प्रमाण पत्र।
  - (v) टेण्डर प्रपत्र के पेज सं० 08 के अनुसार ब्याना राशि की स्कैन की गई प्रति एवं ई०एम०डी० जमा करने की प्राप्ति रसीद।
  - (vi) के०लो०नि०विभाग के फार्म 6 के पैरा 1.2.1 (निविदा प्रपत्र के पेज सं० 03) के अनुसार शपथ पत्र (Affidavit) संलग्न होना चाहिये।
  - (vii) पिछले 03 वर्षों के वार्षिक टर्नओवर प्रमाण पत्र किसी चार्टर्ड एकाउंटेंट से हस्ताक्षरित जो कि के०लो०नि०विभाग के स्टैन्डर्ड आपरेंटिंग प्रासिजर्स-2024 के पेज 231 फार्म सं० अ के अनुसार हो एवं निविदा की राशि से 30% (रु० 23.29 लाख ) से कम न हो।
  - (viii) बैंक द्वारा प्रदान किया गया बैंक संपन्ता सर्टिफिकेट जोकि के०लो०नि०विभाग स्टैन्डर्ड आपरेंटिंग प्रासिजर्स-2024 के पेज 232 फार्म सं० ब के अनुसार या निविदा फॉर्म के पृष्ठ सं० 55 फॉर्म बी एवं निविदा की राशि से 40% (Rs. 31.06 लाख) से कम न हो।  
या नेट वर्थ सर्टिफिकेट पत्र जो कि किसी चार्टर्ड एकाउंटेंट से के०लो०नि०विभाग स्टैन्डर्ड आपरेंटिंग प्रासिजर्स-2024 के पेज 232 फार्म सं० बी-1 के अनुसार जारी किया गया हो या निविदा फॉर्म के पृष्ठ सं० 55 फॉर्म बी-1 के अनुसार एवं निविदा की राशि से 10 प्रतिशत (Rs. 7.76 लाख) या उससे अधिक हो।
  - (ix) दिनांक 31.05.2026 तक के०लो०नि०विभाग एस०ओ०पी० 2024/P-215 (फार्म-सी) के तहत या निविदा फॉर्म के पृष्ठ सं० 56 फॉर्म सी पिछले सात वर्षों में पूर्ण किये गये समान प्रकृति के कार्यों की सूची।
6. बोलीदाता उप महानिरीक्षक, क्षेत्र 01 शिमला के पक्ष में ई.एम.डी. के भौतिक प्रस्तुतिकरण को डिमांड ड्राफ्ट, फिक्स डिपोजिट रसीद और बैंक/जमा रसीद/फिक्स डिपोजिट रसीद के रूप में भा०ति०सी०पु० बल की किसी भी ईकाई में निविदा जमा करने की अंतिम समय से पहले जमा करना सुनिश्चित करें जोकि शिमला में देय हो।
7. इच्छुक निविदाकर्ता को सभी विवरण जैसे की बैंकर का नाम, डिमांड ड्राफ्ट/फिक्स डिपोजिट रसीद/भुगतान आदेश/बैंकर बैंक/बैंक गारंटी संख्या/राशि और तारीख भरना है। ई.एम.डी. की राशि का भुगतान कई डिमांड ड्राफ्ट/पे-आर्डर/बैंकर बैंक/डिपोजिट पर किया जा सकता है। /कॉल रसीद/फिक्स डिपोजिट प्राप्तियाँ-ब्याना का एक हिस्सा बैंक गारंटी के रूप में स्वीकार्य है। ऐसे मामले में 50 प्रतिशत ब्याना या 20 लाख, जो भी कम हो उपर निर्धारित आकार में जमा कराना होगा और किसी भी अनुचित बैंक की बैंक गारंटी के आकार में शेष राशि जमा करनी होगी।
8. जो ठेकेदार उपरोक्त बेवसाईट पर पंजीकृत नहीं है उन्हें पहले बेवसाईट पंजीकृत कराना आवश्यक है, यदि आवश्यक समझे तो ऑनलाईन बिडिंग प्रोसेस हेतु बेवसाईट पर प्रशिक्षण लिया जा सकता है।
9. आनलाईन बोली जमा करने के लिये इच्छुक बोली दाता के पास वैद्य वर्ग-III डिजिटल हस्ताक्षर होने चाहिये।
10. निविदा खुलने की तारीख पर ठेकेदार बेवसाईट पर लॉगिंग कर बोली खोलने की प्रक्रिया देख सकते हैं। बोली खोलने के बाद वह प्रतिस्पर्धी बोली पत्रक प्राप्त करेंगे।
11. ठेकेदार जे.पी.जी. प्रारूप और पी.डी.एफ. प्रारूप में दस्तावेज अपलोड कर सकते हैं।
12. ठेकेदार को प्रत्येक वस्तु की दर उद्धृत करना सुनिश्चित करना चाहिये। यदि कोई सेल खाली छोड़ दी जाती है और निविदाकर्ता द्वारा कोई दर उद्धृत नहीं की जाती है। तो ऐसी वस्तु की दर को शून्य माना जायेगा। हालांकि यदि निविदाकर्ता आईटम दर निविदा में प्रत्येक आईटम के खिलाफ निल दरों का उद्धरण करता है, तो जहाँ निविदा की सबसे कम राशि पर या उससे नीचे किसी भी प्रतिशत का उद्धरण नहीं करता है जहाँ प्रतिशत दर निविदाताओं में किसी भी अनुभाग/उप प्रमुख, निविदा को अमान्य माना जायेगा, सबसे कम निविदा के रूप में नहीं माना जायेगा।

13. के०लो०नि०विभाग, एम.ई.एस, रेलवे, बी०आर०ओ०, राज्य लोक निर्माण विभाग और बी०एस०एन०एल विभाग के अनुमोदित और पात्र ठेकेदारों के रूप में अर्हता प्राप्त करने के लिये आवश्यक मापदंडों को पूरा करने वाले आवश्यक दस्तावेज अन्य दस्तावेजों के साथ-साथ पैरा के तहत उल्लेखित दस्तावेजों के साथ एजेन्सी द्वारा स्कैन और अपलोड की जाने वाली सूची और बाद में प्राप्त होने वाली हार्ड कापी पहले चेक की जाएगी, जबकि बोली खोलने के समय केवल उन्ही एजेन्सीयों की वित्तीय बोली खोली जायेगी जो इस एन.आई.टी के अनुसार योग्य एजेन्सी पाई जाती है।
14. विभाग बिना किसी कारण बताये किसी भी संभावित आवेदन को अस्वीकार करने और उसके द्वारा उपयुक्त किसी भी संख्या में योग्य ठेकेदार की सूची को प्रतिबंधित करने का अधिकार सुरक्षित रखता है, यदि बहुत अधिक निविदाये प्राप्त होती है, तो उन्हे निविदा के निर्धारित मानदंड/कसौटी से संतुष्ट किया जायेगा।
15. वाणिज्य एवं उद्योग मंत्रालय भारत सरकार के आदेश संख्या P-45021/2/2017-BE-II dtd 15.06.2017 , एवं परिशोधित आदेश संख्या P-45021/2/2017-BE-II dtd 15.06.2017 एवं डी.पी.आई.आई.टी. आदेश संख्या P-45021/2/2017-PP (BE-II) –Part(4) Vol.-II dated 19.07.2024 के अनुसार मैक इन इण्डिया सामग्री इस्तेमाल करने वाली फर्मों को वरियता दी जायेगी।


  
जसवंत सिंह  
जसवंत सिंह (अभियन्ता)  
SECOND-IN-COMMAND (ENGR.)  
भारतीय वायु सेना, एन.आई.टी.एफ.एफ.ए.  
भारत

क्षेत्रीय मुख्यालय (अभियन्ता)  
क्षेत्रीय मुख्यालय (अभियन्ता)  
भारत के राष्ट्रपति की ओर से

वितरण:-

- 01- महानिरीक्षक,बी०टी०सी० भानु,भा०ति०सी०पु०बल जिला-पंचकुला हरियाणा को इस आशय से कि निविदा सुचना को अपने नोटिस बोर्ड पर लगवाने हेतु।
- 02- उप महानिरीक्षक (अभियन्ता), उत्तरी सीमांत मुख्यालय, भा०ति०सी०पु० बल को सूचनार्थ हेतु।
- 03- कमान अधिकारी, आई०टी०(सैल), उत्तरी सीमांत मुख्यालय, भा०ति०सी०पु० को इस आशय से की निविदा सुचना को भा०ति०सी०पु० बल की वेबसाईट पर अपलोड कराने हेतु। (आई०टी० सैल, महानिदेशालय, भा०ति०सी०पु० बल के ई-मेल संदेश संख्या 7201 दिनांक 01.08.2024 के अनुपालन में )
- 04- सेनानी द्वितीय वा./17वी/19वी/43वी/50वी वाहिनी को इस आशय की निविदा सुचना को अपने नोटिस बोर्ड पर लगवाने हेतु।
- 05- सेनानी परिवहन वाहिनी भा०ति०सी०पु०बल चण्डीगढ को इस आशय की निविदा सुचना को अपने नोटिस बोर्ड पर लगवाने हेतु।
- 06- कार्यापालक अभियन्ता, शिमला सेन्टर डिविजन,-1 के०लो०नि०विभाग केन्डी कोटेज शिमला हि०प्र० पिन 171004 ई-मेल- [eescd2.sml.cpwd@nic.in](mailto:eescd2.sml.cpwd@nic.in) को इस आशय की निविदा सुचना को अपने नोटिस बोर्ड पर लगवाने हेतु।
- 07- कार्यापालक अभियन्ता, (सिविल) चण्डीगढ,-2 के०लो०नि०विभाग, सेक्टर 07 चण्डीगढ, 160019 ई-मेल- [eccd2.chd@cpwd.gov.in](mailto:eccd2.chd@cpwd.gov.in) को इस आशय की निविदा सुचना को अपने नोटिस बोर्ड पर लगवाने हेतु।
- 08- कार्यापालक अभियन्ता, (निर्माण डिविजन) लो०नि०विभाग (बी एण्ड आर) हरियाणा, सेक्टर 12 ए जिला पंचकुला हरियाणा, पिन 134112, को इस आशय की निविदा सुचना को अपने नोटिस बोर्ड पर लगवाने हेतु।

- 09- श्री बलदेव सिंह नेगी, ई-मेल-[nareshshashi007@yahoo.com](mailto:nareshshashi007@yahoo.com)  
10- श्री हीरा सिंह लारजू, ई-मेल-[larzoo1973@gmail.com](mailto:larzoo1973@gmail.com)  
11- श्री सुनील कुमार बिज, ई-मेल-[saranshvij4@gmail.com](mailto:saranshvij4@gmail.com)  
12- श्री नन्द किशोर प्रसाद, ई-मेल-[npnandkishore9gmail.com](mailto:npnandkishore9gmail.com)  
13- जी0पी0बी0 इन्फास्ट्रक्चर प्रोजेक्ट प्राईवेट लिमिटेड, ई-मेल-[kunal999vsb@gmail.com](mailto:kunal999vsb@gmail.com)  
14- श्री कुंवर सिंह, E-Mail- [kanwar1976@gmail.com](mailto:kanwar1976@gmail.com)  
15- श्री गोपाल सिंह नेगी, E-Mail- [gsnegimes@gmail.com](mailto:gsnegimes@gmail.com)  
16- श्री पितांबर दास नेगी, E-Mail id: [pitambernegi.pn@gmail.com](mailto:pitambernegi.pn@gmail.com)  
17- श्री मदन सिंह ठाकुर, E-Mail Id- [rattanpurnmadan@gmail.com](mailto:rattanpurnmadan@gmail.com)  
18- श्री रितेश सूद, E-Mail Id- [riteshsood6@gmail.com](mailto:riteshsood6@gmail.com)  
19- श्री सुकेत कंस्ट्रक्शन कंपनी प्राईवेट लिमिटेड E-Mail Id-[suketcunstruction@gmail.com](mailto:suketcunstruction@gmail.com)  
20- श्री सचिन सूद E-Mail Id- [s\\_sood1@yahoo.com.in](mailto:s_sood1@yahoo.com.in)  
21- ओम प्रकाश सुरेन्द्र मोहन E-Mail Id- [varun88k@gmail.com](mailto:varun88k@gmail.com)  
22- शक्ति सिंह E-Mail Id- [shaktisingh1959@gmai.com](mailto:shaktisingh1959@gmai.com)  
23- कवर सिंह E-Mail Id- [shaktikumar256@gmail.com](mailto:shaktikumar256@gmail.com)  
24- नूरबु छिरिंग E-Mail Id- [norbuchhering.62@gmail.com](mailto:norbuchhering.62@gmail.com)  
25- नवांग छिरिंग E-Mail Id- [nchhering66@gmail.com](mailto:nchhering66@gmail.com)  
26- बाविता E-Mail Id- [taxkarsong@gmail.com](mailto:taxkarsong@gmail.com)  
27- Dorje Negi E-Mail Id- [pdorje120@gmail.com](mailto:pdorje120@gmail.com)  
28- Inderjeet E mail id [inderjeet327@gmail.com](mailto:inderjeet327@gmail.com)  
29- Shichot dorje E mail id [gstkullu33@gmail.com](mailto:gstkullu33@gmail.com)

  
जसवंत सिंह  
JASWANT SINGH  
द्वितीय कर्मा (अभियंता)  
SECOND IN CHARGE (ENOR)  
श्री ३ (अभियंता), भारतीय सुरक्षा  
श्री ३ (अभियंता), भारतीय सुरक्षा

क्षेत्रीय मुख्यालय (अभियंता)  
क्षे0मु0शिमला भा0ति0सी0पुलिस

Office of the DY. Inspector General  
SHQ (SML) ITB Police  
MHA /Govt. of India  
Post Office Taradevi  
Pin Code:- 171010

Date:- 19-05-2026

**Notice Inviting e-Tender**  
**(Second Call)**

The Sector Engineer , SHQ (Shimla ITB Police Force , Taradevi Shimla (H.P.) on behalf of the President of India invites online **Percentage rate tender** in two bid system from approved and eligible firms / contractors of **CPWD/ State PWDs/ BRO/ Railway / MES / BSNL** registered under Civil (**Building/PHE/Sanitary**) construction category in appropriate class for the following works :-

S. No.	Name of Work	Estimated Cost	EMD amount	Completion time
1	Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19 <sup>th</sup> BN ITB Police , Sarahan Distt Shimla (H.P.)	Rs. 77,64,797/-	Rs. 1,55,296/-	06 Months

**Critical Dates :-**

S. No.	Particular	Time and Date
1	Publishing date and time	20-05-2026 at 09:00 Hrs
2	Document download start date	20-05-2026 at 09:00 Hrs
3	Clarification start date	20-05-2026 at 09:30 Hrs
4	Bid submission start date	20-05-2026 at 09:30 Hrs
5	Clarification end date	10-06-2026 at 16:00 Hrs
6	Bid submission end date	11-06-2026 at 15:00 Hrs
7	Last date and time for deposited of original EMD to Engineer / DDO of any BN/SHQ/FTR of ITBP as per Page No-08 of Bid documents.	11-06-2026 at 15:00 Hrs
8	Bid opening date	12-06-2026 at 15:30 Hrs

1. The enlistment of the contractors should be valid on the last date of submission of tenders. In case, the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.
2. The intending bidder must read the terms and conditions of **Tender form** carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
3. Information and Instructions for bidders posted on website shall form part of bid document.

4. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website [www.eprocure.gov.in](http://www.eprocure.gov.in) & [www.itbp.gov.in](http://www.itbp.gov.in) .
5. The tender can only be submitted after uploading the mandatory scanned documents as per list given below. (AS per bid document P-07 Para-24.)
  - I. Copy of valid enlistment in appropriate class.
  - II. Copy of GST registration of the Place where work to be taken as per Bid document P-07, at S.No.-24 (IV).
  - III. Tender form duly signed with stamp.
  - IV. Work experience certificates.
  - V. Scanned copy of EMD and receipt of EMD as per tender document Page No-08.
  - VI. Affidavit as per Clause 1.2.1 of CPWD-6.
  - VII. Last Three year turn over certificate from CA as per CPWD SOP-2024/P231 (Form-A), which is not less than **30 % of tender Cost ( Rs. 23.29 Lakh)**.
  - VIII. Bank Solvency from Bank as per CPWD SOP-2024/ P-232 (form –“B”) which is **not less than 40% of tendered cost (Rs. 31.06 Lakh) or Tender form Page No-55 Form- B.**  
**OR Net worth certificate at least 10% (Rs. 7.76 Lakh ) of tender amount from CA as per CPWD 2024 SOP format (Form-B-1, Page No-232) or Tender form Page No-55 Form- B-1.**
  - IX. Eligibility similar nature works completed during last Seven years ending **31-05-2026. As per CPWD SOP-2024/P-215 (Form-C) or tender form P-56 Form -C.**
6. The bidder will ensure physical submission of EMD in any of ITBP formation, Pan India within the period of bid submission and same in favor of **“Deputy Inspector General, SHQ (Shimla) ITBP ”** in the form of Demand draft, Banker’s Cheque / Deposit at call receipt/ Fixed Deposit Receipt and payable at Shimla.
7. The intending tenderer has to fill all the details such as Banker’s name, Demand Draft/Fixed Deposit Receipt /Pay Order/ Banker’s Cheque/Bank Guarantee number, amount and date. The amount of EMD can be paid by multiple Demand Draft / Pay Order / Banker’s Cheque / Deposit at call receipt / Fixed Deposit Receipts -A part of earnest money is acceptable in the form of bank guarantee also. In such case, **50% of earnest money or Rs. 20 lakh, whichever is less, will have to be deposited in shape prescribed above,** and balance in shape of Bank Guarantee of any scheduled bank.
8. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed, they can be imparted training on online bidding process as per details available on the website.
9. The intending bidder must have valid class-III digital signature to submit online bid.
10. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
11. Contractor can upload documents in the form of JPG format and PDF format.

12. Contractor must ensure to quote rate of each item, if any cell is left blank and no rate is quoted by the tenderer, rate of such item shall be treated as "0" (ZERO). However, if tenderer quotes Nil rates against each item in item rate tender or does not quote any percentage above/below on the lowest amount of the tender or any section/sub head in percentage rate tenders, the tender shall be treated as invalid and will not be considered as lowest tender.
13. The required documents meeting the criteria to qualify as "approved and eligible" contractors of CPWD, MES, Railway, State PWD & Telecom/BRO/BSNL Deptt. etc along with other documents as mentioned under Para "List of Documents to be scanned and uploaded by the agency and hard copies received subsequently" shall be checked first, while opening the bid. The financial bid of only those agencies shall be opened who are found to be eligible agencies, as per this NIT.
14. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
15. Preference will be given to firms who registered for using **Make In India material** in the work as per order P-45021/2/2017-BE-II dtd 15.06.2017 and revised order Dtd 16.09.2020 and order P-45021/2/2017-PP (BE-II) –Part (4) Vol.-II dated **19.07.2024 of DPIIT (Department for Promotion of Industry and Internal Trade) for Public Procurement (Preference to make In India).**

  
 018001 FRIE  
 JASWANT SINGH  
 018001 FRIE (018001)  
 SECOND IN COMMAND (ENGR)  
 SHQ (SHIMLA), ITB POLICE  
 SHQ (SHIMLA), ITB POLICE

Sector Engineer  
 SHQ (Shimla) ITB Police  
 On Behalf of President of India

**Copy To :-**

- 1 Inspector General, BTC Bhanu , ITBP , Distt -Panchkula Haryana for wide publicity to put same on your unit notice board please
- 2 Deputy Inspector General (Engr) N FTR ITBP for info pl.
- 3 Officer In-charge , I.T.Cell, N. FTR ITBP Dehradun , for advertisement the same on ITBP web site on priority basis for wide publicity of tender pl. (**In respect of I.T. Cell Dte. Gen. ITBP E-mail MSG No:- 7201 dated 01/08/2024.**)
- 4 Commandant 2<sup>nd</sup>/17<sup>th</sup> /19<sup>th</sup>/ 43<sup>rd</sup> /50<sup>th</sup> Bn ITBP for wide publicity to put same on your unit notice board please.
- 5 Commandant TPT BN ITBP Chandigarh for wide publicity to put same on your unit notice board please.
- 6 Executive Engineer CPWD, Shimla central Division-I, Kenndy Cottage, Shimla (HP) 171004,Email ID :- [eescd2.sml.cpwd@nic.in](mailto:eescd2.sml.cpwd@nic.in) for wide publicity to put same on your office notice board please.
- 7 Executive Engineer (Civil), Chandigarh-2, CPWD, Sector -7B, Chandigarh-160019, Email ID:- [eccd2.chd@cpwd.gov.in](mailto:eccd2.chd@cpwd.gov.in) for wide publicity to put same on your office notice board please.
- 8 Executive Engineer, Construction Division, PWD (B&R) Haryana , Sector 12-A, Distt Panchkula (HR) Pin 134112, for wide publicity to put same on your office notice board please.

//4//

- 9 Sh Baldev Singh Negi, email ID:- [naresh\\_shashi007@yahoo.co.in](mailto:naresh_shashi007@yahoo.co.in)
- 10 Sh Hira Singh larzoo, Email ID :- [larzoo1973@gamil.com](mailto:larzoo1973@gamil.com) .
- 11 Sh Sunil Kumar Vij, Email ID :- [saranshvij4@gmail.com](mailto:saranshvij4@gmail.com) .
- 12 Sh Nand Kishor Prasad Email ID :- [npnandkishore9@gmail.com](mailto:npnandkishore9@gmail.com)
- 13 GPB Infra projects Pvt Ltd, Email ID :- [kunal999vsb@gmail.com](mailto:kunal999vsb@gmail.com)
- 14 Sh Kanwar Singh, E-Mail- [kanwar1976@gmail.com](mailto:kanwar1976@gmail.com)
- 15 Sh Gopal Singh Negi. E-Mail- [gsnegimes@gmail.com](mailto:gsnegimes@gmail.com)
- 16 Sh Pitamber Dass Negi, E-Mail id: [pitambernegi.pn@gmail.com](mailto:pitambernegi.pn@gmail.com)
- 17 Sh Madan Singh Thakur, E-Mail Id- [rattanpurnmadan@gmail.com](mailto:rattanpurnmadan@gmail.com)
- 18 Sh Ritesh Sood, E-Mail Id- [riteshsood6@gmail.com](mailto:riteshsood6@gmail.com)
- 19 Suket Construction Company PVT Ltd E-Mail Id-[suketcunstruction@gmail.com](mailto:suketcunstruction@gmail.com)
- 20 Sh Sachin Sood, E-Mail Id- [s\\_sood1@yahoo.com.in](mailto:s_sood1@yahoo.com.in)
- 21 Om Parkash Surinder Mohan E-Mail Id- [varun88k@gmail.com](mailto:varun88k@gmail.com)
- 22 Shakti Singh E-Mail Id- [shaktisingh1959@gmai.com](mailto:shaktisingh1959@gmai.com)
- 23 Kanwar Singh, E-Mail Id- [shaktikumar256@gmail.com](mailto:shaktikumar256@gmail.com)
- 24 Norbu Chhering , E-Mail Id- [norbuchhering.62@gmail.com](mailto:norbuchhering.62@gmail.com)
- 25 Nawang Chhering, E-Mail Id- [nchhering66@gmail.com](mailto:nchhering66@gmail.com)
- 26 Bavita, E-Mail Id- [taxkarsong@gmail.com](mailto:taxkarsong@gmail.com)
- 27 Dorje Negi E-Mail, Id- [pdorje120@gmail.com](mailto:pdorje120@gmail.com)
- 28 Inderjeet E mail, id [inderjeet327@gmail.com](mailto:inderjeet327@gmail.com)
- 29 Shichot dorje, E mail id [gstkullu33@gmail.com](mailto:gstkullu33@gmail.com)

  
JASWANT SINGH  
SECOND IN COMMAND (ENGR.)  
SHQ (SHIMLA) ITB POLICE

Sector Engineer  
SHQ (Shimla) ITB Police



GOVERNMENT OF INDIA  
INDO TIBETAN BORDER POLICE  
SHQ (SML) ITBP  
TARA DEVI SHIMLA (H.P.) PIN 171010



# BID DOCUMENT (Second Call)

Name of work:

**Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITBP Police , Sarahan Distt Shimla (H.P.).**

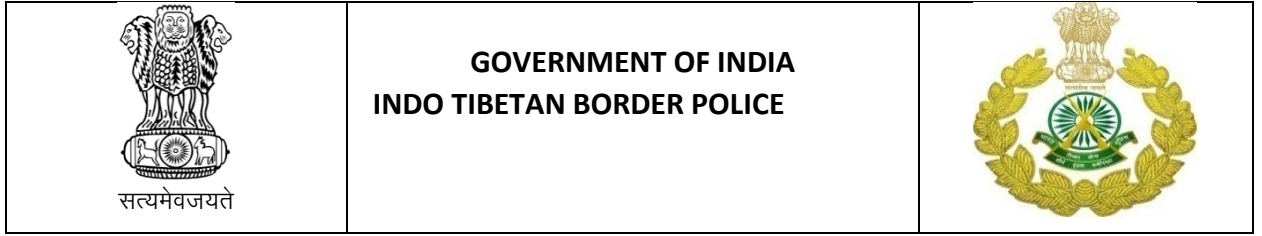
Signature of Tenderer with stamp

Signature of Tender Calling authority

  
जसवंत सिंह  
JASWANT SINGH  
(ASSTANT SML Officer )  
SECOND IN - COMMAND (ENGR.)  
श. प्र. (सिमला), भा. ति. सी. पुलिस  
SHQ (SML) ITBP Force



## CPWD-6 FOR e-TENDERING



On behalf of the President of India, Sector Engineer, SHQ(SML), ITBP invites online Percentage Rate Bids from approved and eligible CPWD/ State PWDs / Railway/MES/BSNL/BRO enlisted contractors of appropriate class in civil /composite work in two bid system for the following work:

**Name of work:- Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

The enlistment of the contractors should be valid on the last date of submission of bids.

In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

1.1 The work is estimated to cost **Rs. 77,64,797/-**. This estimate, however, is given merely as a rough guide.

1.1.1 The Sector Engineer will submit draft NIT consisting detail of each components of composite work to NIT approving authority. For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will be corresponding to the combined estimated cost of different components put to bid.

1.1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority of having satisfactorily completed similar works of magnitude specified below :

1.1.3 The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion of the work to previous day of last date of submission of bids.

**Criteria of eligibility for submission of bid documents:**

1.2.1 Criteria of eligibility for contractors-

i) The enlistment of the CPWD/ State PWDs / Railway/MES/BSNL/BRO contractors in appropriate class in Civil/composite category should be valid on the last date of submission of bids.

ii) In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

iii) The tenderer should have completed satisfactorily at least 03 (three) similar works (**Building works and other Development work**) each of value (40% of the estimated cost) or 02 (Two) similar works each of value (60% of the estimated cost) or 01 (one) similar work of cost (80% of estimated cost) during the last 07 (Seven) years ending last day of the month previous to the one in which tender are invited. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 07 % per annual, calculated from the date completion to the last date of submission of bid.

**iv) To become eligible for bidding, the bidders shall have to furnish an affidavit as under.**

I/we undertake and confirm that eligible works (s) has /have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of department, then I/we shall be debarred for bidding in ITBP in future forever. Also, if such a violation comes to the notice of department before date of start of work, the Engineering-In- Charge shall be free to forfeit the entire amount of earnest money deposit/ Performance Guarantee deposited with deptt.

2. Agreement shall be drawn with the successful bidder on prescribed Form amended up to date which is available with Sector Engineer. Bidder shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **06 Months (working months)** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. (i) The site for the work is available. **(Site for the work is available)**  
Or  
The site for the work shall be made available in parts as specified below.  
.....  
(ii) The architectural and structural drawing for the work is available.  
Or  
The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work.
5. The bid document consisting of plans, specifications, schedule of quantities of various types of items to be executed and set of terms & conditions of the contract to be complied with and other necessary documents except standard general conditions of contract form can be seen on website [www.itbpolice.nic.in](http://www.itbpolice.nic.in) or [www.eprocure.gov.in](http://www.eprocure.gov.in) free of cost.
6. After submission of the bid, the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number any number of times (he need not re-enter rate of all the items), but before last time and date of submission of bid, as notified.
8. When bids are invited in three stage system and if is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
9. Earnest Money of **Rs 1,55,296/-** in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt drawn in favour of **DIG, SHQ(SML) ITB Police**, payable at **Shimla (HP)** shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited in any of ITBP formation, Pan India within the period of bid submission. The copy of EMD and receipt of EMD(issued by receiving authority of ITBP formations) will also require to be uploaded by bidder with other documents.  
**(The EMD receiving authority shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (copy enclosed)).**  
A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee including e-bank guarantee of any Commercial bank having validity for a period of 75 Days or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.  
Copy of Enlistment Order and certificate of work experience and other documents as specified in Notice inviting e-tender shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e-Tender Notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any of ITBP formations with other uploaded documents are found in order.
10. The bid submitted shall become invalid if:
  - i) The bidder is found ineligible.
  - ii) The bidder does not deposit original EMD with any of ITBP formation.
  - iii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
  - iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of tender opening authority.
  - v) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above / below on the total amount of tender or any section / sub-head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

Signature of Tenderer with stamp

  
Tenderer Name  
ASHWANTI SINGH  
REGD. ASSISTY. & OFFICER  
SECY IN CHARGE  
SHQ (SML) ITB Police

Signature of Tender Calling authority

11. The contractor whose bid is accepted will be required to furnish performance guarantee of **5% of the Estimated cost put to tender (ECPT) or contract amount whichever is higher, in case of tender come more than 20 % below the ECPT and addition PG will required to submit by the L-01 bidder as per CPWD manual SOP 2024 / GCC amendment 2024/20 as mentioned in Schedule 'E'** and within the period specified in Schedule 'F'. This guarantee shall be in the form of fixed deposit receipt or bank guarantee from any of the Commercial banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period, if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses / registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in schedule 'F'. The validity of PG should be target date of completion plus 60 days. In case date of completion is extended, the contractor shall have to extend PG accordingly.

12. The description of the work is as follows:

**Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders, shall be summarily rejected.

14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.

15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.

16. The contractor shall not be permitted to bid for works in those ITBP Ftr/ Sector/Unit, in which his near relative is posted as Accountant or as an officer in any capacity between the grades of DIG Engineer and Sub-Inspector O (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the ITBP or in the Ministry of Home Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

17. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India, as aforesaid, before submission of the bid or engagement in the contractor's service.

18. The bid for the works shall remain open for acceptance for a period of 30 days(Thirty days)from the date of opening of bid in case of single bid system and **75** (Seventy five) days from the date of opening of technical bids in case bids are invited in Two/Three bid system. Further

- (i) If any tenderer withdraws his tender or makes any modification in the terms and conditions of the tender which is not acceptable to the department within 07 days after last date of submission of bids, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- (ii) If any tenderer withdraws his tender or make any modification in the terms and conditions of the tender which is not acceptable to the department after expiry of 07 days after last date of submission of bids , then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100 % of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of same work.
19. This Notice Inviting bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
- The Notice Inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted on line at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
  - Condition of contract and contract clauses
20. **For composite bids**
- 20.1.1** **The Sector Engineer**, the Engineer-In-Charge of the work will call bids for the composite work. The cost of bid documents and earnest money will be fixed with respect to the combined estimated cost put to tender for the composite bid.
- 20.1.2** The bid documents will include following three component:  
**Part A:-** CPWD-6, CPWD-7/8 including schedule 'A' to 'F' for the major component of the work, General Condition of Contract for CPWD 2023(as applicable to work as approved by NIT approving authority) and modified up to date.  
**Part B:-** General/ Specific Conditions, Specifications and schedule of quantities applicable to major component of the work.  
**Part C:-** The schedule A to F for minor component of the work, General / specific conditions , specifications and schedule of Quantities applicable to minor component (s) of the work.
- 20.1.3** The bidders must associate contractors of minor components(required if any) with himself, as per NIT conditions.
- 20.1.4** The eligible bidders shall quote rates for all items of Major component as well as for all items of minor components of work/ percentage above or below to NIT amount.
- 20.1.5** After acceptance of bid by competent authority the **Sector Engineer, SHQ.(SML)**, Engineer-In-Charge of Major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded ,the main contractor will have to enter into one agreement with **Sector Engineer, SHQ (SML)**, Engineer-In-Charge of major component and has also to sign two or more copies of agreement depending upon requirement of copies.
- 20.1.6** Entire work under the scope of composite bid including Major and all Minor components shall be executed under one agreement.
- 20.1.7** Security deposit will also be worked out based on amount of composite work.
- 20.1.8** The main contractor has to associate agencies for specialised component (s) confirming to eligibility criteria as defined in the bid document and has to submit detail of such agency (s) to Engineer-In-Charge of relevant component(s) within prescribed time. Name of the agency (s) to be associated shall be approved by Engineer-In-charge of relevant component(s).
- 20.1.9** In case the main contractor intends to change any of the above agency / agencies during the operation of the contract, he shall obtain prior approval of Engineer-In-Charge of relevant specialised component(s).  
 The new agency/agencies shall also has to satisfy the laid down eligibility criteria. In case Engineer-In-Charge is not satisfied with the performance of any agency, he can direct the main contractor to change the agency executing such items of work and this shall be binding on the contractor.

- 20.1.10 The main contractor has to enter into MoU with agency(s) associated by him. Copy of such MoU shall be submitted to Engineer-In-Charge. In case of change of associate contractor, the main agency(s) has to enter into MoU / agreement with the new contractor associated by him.
- 20.1.11 Running payment for the major, minor component shall be made by Engineer in charge / Concerned unit Engineer to the main contractor after test check by respective authority. The Computerized Measurement Book (CMB) shall be maintained independently by Engineer in charge/Unit Engineer of major, minor components.
- 20.1.12A The composite work shall be treated as complete when all the components of the work are complete . The completion certificate of the composite work shall be recorded by Engineer-In-Charge after completion of all the components .
- 20.1.12B Final bill of whole work shall be finalized and paid by the Engineer-In-Charge.
21. **Integrity pact : The contractor shall sign the integrity pact, which is a part of tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids for all works of estimated cost put to tender more than 300 cr. In the event of his failure to sign and upload the integrity pact along with other bid documents, his bid shall be rejected.**
22. The intending bidders are required to update their profile in cpp portal (e-procurement tender portal) and to upload their bids well in advance of last date of submission of tender. Any issue relating uploading profile/ uploading tender can be resolved through the concerned Engineer in Charge. Detail may be asked through E- mail of respective tender calling formation. The e-tendering bidders are also not to wait to raise any issue till the last date of submission of bid in their own interest.
23. In case of reduction in scope of work no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc shall not be entertained.
24. **List of documents to be scanned and uploaded within the period of bid submission:**

(i)	Copy of receipt for deposition of original EMD in any of ITBP formation with copy of EMD
(ii)	Certificates of work experience in format (Form-C, Form-C1) CPWD SOP -2024 (P-233)
(iii)	Affidavit as per Clause <b>1.2.1 (IV)</b> of CPWD-6 and matter as per Clause 1.2.1 (iv) of tender form
(iv)	GST Registration Certificate, if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then he shall scan and upload following under taking along with bid documents. <b>"If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by ITBP, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by ITBP or GST department in this regard".</b>
(v)	Enlistment order from CPWD/ State PWDs / Railway/MES/BSNL/BRO contractors in appropriate class in composite category.
(vi)	Banker's Certificate of the amount equal to 40% of the Estimated Cost put to tender (ECPT) as per CPWD2024 SOP format (Form-B,P-232) <b>Not more than 6 month older from last date of submission of bid</b> <b>Or</b> Net worth certificate at least 10% from CA as per CPWD2022 SOP format (Form-B-1,P-232) latest
(vii)	Last three years turn over (at least 30 % of estimated cost put to tender) . as per CPWD2024 SOP format (Form-B,P-231)
(viii)	Complete tender form with signature and stamp over each page.
(ix)	Required level work experience
(x)	Any other documents as specified in the NIT

This table repeated again in page-10

25. **Receipt of deposition of original EMD**

Receipt No. \_\_\_\_\_ dated \_\_\_\_\_

1.	Name of work	:	<b>Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).</b>
2.	NIT No.	:	<b>No: ITBP/SHQ(SML)/29<sup>th</sup> BN / ENGR/ TS / 2025-26 - 115 Dated :- 28-02-2026</b>
3.	Estimated Cost	:	<b>Rs. 77,64,797/-</b>
4.	Amount of Earnest Money Deposit	:	<b>Rs. 1,55,296/-</b>
5.	Last date of submission of bid	:	<b>11-05-2026 upto 1500 Hrs</b>
6.	Last date and time of submission of EMD anywhere in ITBP	:	<b>11-05-2026 upto 1500 Hrs</b>

(\*To be filled by / EE at the time of issue of NIT and uploaded along with NIT)

1. Name of Contractor :
2. Form of EMD : .....
3. Amount of original Bank guarantee as : .....
4. Date of submission of EMD : .....

Signature, Name and Designation of EMD  
Receiving Officer ITBP  
Along with Office Stamp

  
 Order No. \_\_\_\_\_  
 ASWANT SINGH  
 (ASST. COMD. ENGR.)  
 SECOND IN COMMAND (ENGR.)  
 19th BN, ITBP Force

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE**

On behalf of the President of India, the Sector Engineer, **SHQ(SML)** ITBP, invites online Percentage rate Bids from approved and eligible CPWD/ State PWDs / Railway/MES/BSNL/BRO enlisted contractors of appropriate class in Civil/composite work in Two bid system for the following work:

SN.	NIT No.	Name of work	Estimated Cost put to Bid (Rs.)	Earnest Money	Stipulated period of completion of work (in Months)	Last date and time of online submission of bid, copy of receipt for deposition of original EMD and other documents as specified in the bid document	Time & Date of opening of Bid
1	2	3	4	5	6	7	8
1	No.: <b>ITBP/SHQ(SML)/ENG R/TS/2025-26- 115 Dated :- 28 -02-2026</b>	<b>Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).</b>	<b>Rs. 77,64,797/-</b>	<b>Rs. 1,55,296/-</b>	<b>06 Working months</b>	<b>Upto 03:00 PM on 11-05-2026</b>	<b>Upto 03:30 PM on 12-05-2026</b>

- a) Contractors who fulfil the following requirements shall be eligible to apply. The intending contractors should have satisfactorily completed the works as mentioned below during the last seven years ending last day of the month previous to the one in which tenders are invited. Three similar works each costing not less than 40% of estimated cost or two similar works each costing not less than 60% of estimated cost or one similar work costing not less than 80%. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7 % per annum, calculated from the date of completion to previous day of last day of submission of tender.
  - b) Should have had average annual financial turnover of 30 % of estimated cost put to tender on construction works during the last three years ending 31<sup>st</sup> March of preceding year(Scanned copy of certificate from CA with unique documents identification Number (UDIN) to be uploaded.) The value of annual turnover figures shall be brought to the current value by enhancing the actual turnover figures at simple rate of 7% per annum.
  - c) Should not have incurred any lose (Profit after tax should be positive ) in more than two years during the last five years ending 31<sup>st</sup> March of preceding year .
  - d) Should have a bankers certificate from a commercial bank for 40 % of estimated cost put to tender) or net worth certificate from CA with unique documents identification Number (UDIN) of minimum 10% amount of estimated cost put to tender( scanned copy of original to be uploaded)
- 2 The intending bidders must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
  - 3 This information and instructions for bidders posted on website shall form Pay of bid document.
  - 4 The bid documents consisting of plans, specifications, the schedule of quantities of various types of items /works to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and down loaded from the website [www.itbpolice.nic.in](http://www.itbpolice.nic.in) or [www.eprocure.gov.in](http://www.eprocure.gov.in).
  5. But the bid can only be submitted after deposition of original EMD in any of ITBP formation within the period of bid submission and uploading the mandatory scanned documents such as demand draft or pay

order or banker's cheque or deposit at call receipt or fixed deposit receipt and bank guarantee including e-bank guarantee from any of the commercial bank towards EMD in favour of **DIG, SHQ(SML) ITBP** as mentioned in NIT, receipt for depositing of original EMD to any of ITBP formation.

6. Those contractors who are not registered or have not updated their profile on the website mentioned above are required to get registered/ update their profile beforehand. The necessary training material including the videos with step to step process are available on download section of [www.eprocure.gov.in](http://www.eprocure.gov.in).
7. The intending bidder must have valid class-III digital signature certificate with encryption key ( Combo Type) to perform any operation / transactions on the e-tendering portal / website and the bidder should download and install the e signer on their system as per instruction available on download section of [www.eprocure.gov.in](http://www.eprocure.gov.in)
8. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor's bid sheets.
9. Contractor can upload documents in the form of JPG format and PDF format.
10. Certificate of financial turnover-At the time of submission of bid contractor may upload Affidavit/Certificate from CA mentioning financial turnover of last seven years or for the period as specified in the bid documents and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload voluminous balance sheet.
11. If a tenderer quotes NIL rates or does not quote any percentage above or below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
12. The technical bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bids shall be communicated to them at a later date.
13. Clarifications required (if any) may be obtained through CPP portal.
14. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
15. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractor to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.



Tender File  
ASWANT SINGH  
SECOND IN COMMAND (ENGR.)  
SMB 2 MAC, ITBP Force

16. **List of documents to be scanned and uploaded within the period of bid submission:**

(i)	Copy of receipt for deposition of original EMD in any of ITBP formation with copy of EMD
(ii)	Certificates of work experience in format (Form-C, Form-C1) CPWD SOP -2024 (P-233)
(iii)	Affidavit as per Clause <b>1.2.1 (IV)</b> of CPWD-6 and matter as per Clause 1.2.1 (iv) of tender form
(iv)	GST Registration Certificate, if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then he shall scan and upload following under taking along with bid documents. <b>"If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by ITBP, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by ITBP or GST department in this regard".</b>
(v)	Enlistment order from CPWD/ State PWDs / Railway/MES/BSNL/BRO contractors in appropriate class in composite category.
(vi)	Banker's Certificate of the amount equal to 40% of the Estimated Cost put to tender (ECPT) as per CPWD2024 SOP format (Form-B,P-232) <b>Not more than 6 month older from last date of submission of bid</b> <b>Or</b> Net worth certificate at least 10% from CA as per CPWD2022 SOP format (Form-B-1,P-232) latest
(vii)	Last three years turn over (at least 30 % of estimated cost put to tender) . as per CPWD2024 SOP format (Form-B,P-231)
(viii)	Complete tender form with signature and stamp over each page.
(ix)	Required level work experience
(x)	Any other documents as specified in the NIT



जसवंत सिंघ  
 JASWANT SINGH  
 दूसरा-समान (अभिनेता)  
 SECOND-IN-COMMAND (ENGR.)  
 ए. ए. (अभियंता), भारतीय सेना  
 SMC, IITBP Force

Sector Engineer  
 SHQ (SML) ITBP  
 (For and on behalf of President of India)



जसवंत सिंघ  
 JASWANT SINGH  
 दूसरा-समान (अभिनेता)  
 SECOND-IN-COMMAND (ENGR.)  
 ए. ए. (अभियंता), भारतीय सेना  
 SMC, IITBP Force



**GOVERNMENT OF INDIA  
INDO TIBETAN BORDER POLICE DEPARTMENT**

Name of work: **Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

**PART B**

**INDEX**

Sl. No.	Particulars	Sheet No.
1	CPWD form-7	14-15
2	Performa of Schedule A to F	16-20
3	Table of Mile stones	21

Certified that this tender Document Part-B Contains pages from 13 to 20.



जसवंत सिंह  
 JASWANT SINGH  
 द्वितीय - कमाण्ड (इंजीनियर)  
 SECOND IN COMMAND (ENGR.)  
 19th BN (ITB), साराहन, शिमला  
 SMO 19th BN (ITB) Force

Sector Engineer  
SHQ (SML) ITBP  
(For and on behalf of President of India)



जसवंत सिंह  
 JASWANT SINGH  
 द्वितीय - कमाण्ड (इंजीनियर)  
 SECOND IN COMMAND (ENGR.)  
 19th BN (ITB), साराहन, शिमला  
 SMO 19th BN (ITB) Force

CPWD FORM NO. 7  
GOVERNMENT OF INDIA  
INDO TIBETAN BORDER POLICE DEPARTMENT

**STATE:** Himachal Pradesh  
**BRANCH:** ENGINEERING

**FTR:** Northern FTR ITBP DDN  
**SHQ (SML)** ITBP, Tara Devi Shimla (HP)

**COMPOSITE PERCENTAGE RATE TENDER & CONTRACT FOR WORKS**

**Tender for the work:** Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).

- i) To be submitted/uploaded online by 1500 Hrs on 11-05-2026 (date) through website www.eprocure.gov.in to Sector Engineer, SHQ(SML),ITBP Taradevi Shimla (HP).
- ii) The bid to be opened online in presence of tenderers who may be present at 1530Hrs on 12-05-2026 (date) in the office of Sector Engineer, SHQ(SML), ITBP, Taradevi (HP).

**TENDER**

I/We have read and examined the Notice Inviting Tender, Schedule A, B, C, D, E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special Conditions, Schedule of Rate and other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F', viz. Schedule of Quantities and in accordance in all respects with the Specifications / Special conditions, Designs, Drawings and instructions in writing referred to in Rule1 of general rule and directions and in clause11 of the conditions of the contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/we agree to keep the tender open for 75 days from the due date of its opening and not to make any modifications in its terms and conditions.

I/we have deposited EMD for the prescribed amount Rs. 1,55,296/- in the office of concerned Second In Command Engineer/ any other BN/SHQ/FTR/Command/Dte. Gen.of ITBP as per bid documents.

A copy of earnest money deposit receipt of prescribed amount Rs. 1,55,296/- deposited in the form of insurance surety bonds , account payee demand draft , Fixed deposit receipt , bankers cheque or Bank Guarantee as (As Prescribed ) issued by a Commercial Bank , is scanned and uploaded (Strike out as the case may be ).

If I/we fail to furnish the prescribed Performance Guarantee within prescribed period, I/we agree that the said President of India or his successor in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money absolutely. Further if I/we fail to commence the work as specified, I/we agree that President of India or his successors in office shall, without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the Performance Guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2. and 12.3 of the tender form ( General conditions of contract for Construction CPWD works -2023 ) . Further, I/We agree that in case

Signature of Tenderer with Stamp



Signature of NIT issuing authority

of forfeiture of earnest money and performance guarantee as aforesaid, I/we shall be debarred for participation in the re-tendering process of the work.

I / We undertake and confirm that eligible similar work(s) has/ have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred from the tendering in ITBP in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I/We hereby declare that I/we shall treat the tender documents, drawings and other records connected with the work as Secret / Confidential documents and shall not communicate information / derived therefrom to any person other than a person to whom I/we/am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:	XX	}	Signature of Contractor .....	}
Witness: -	XX		Postal Address: - .....	
Address: -	XX			
Occupation: -	XX			
Telephone No.				
Fax:-				
E-Mail:-				

**ACCEPTANCE**

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of Rs..... (Rupees.....)

The letters referred to below shall form part of this contract agreement.

- i) XXX
- ii) XXX
- iii) XXX

Signature XXX  
Dated: - .....  
Sector Engineer, SHQ(.....)  
For & on behalf of the President of India.

XXX To be filled in by the Sector Engineer, SHQ(.....)

XX To be filled in by the contractor

**SCHEDULES (A to F)****SCHEDULE 'A'**

Schedule of quantities-

As per Part D Page No 61-94

**SCHEDULE 'B'**

Schedule of materials to be issued to the contractor

S.No.	Description of item.	Quantity.	Rate in figures & words at which the material will be charged to the contractor	Place of issue
(1)	(2)	(3)	(4)	(5)
		NIL		

**SCHEDULE 'C'**

Tools and plants to be hired to the contractor

S.NO.	DESCRIPTION.	HIRE CHARGES PER DAY	PLACE OF ISSUE
		NIL	

**SCHEDULE 'D'**

Extra schedule for specific requirements/ documents for the work, if any.

1. **Special conditions** - Page No 24 to 37
2. **Particular Specifications.** - Page No 38 to 47
3. **Annexures** - Page No 50 to 58  
Form of earnest money deposit (Bank Guarantee Bond)  
Form of performance security (Bank Guarantee Bond), ,  
guarantee bond for water proofing /sanitary  
installations/water supply/for removal of defects in  
Stone/tile work etc.
4. **Integrity Pact** Page No ...to ... (Not applicable for this bid)

**SCHEDULE 'E'**Reference to General Conditions of General Conditions of contract 2023 Construction works for CPWD works  
Contract amended up to last date of submission of bids.

1.1 Name of Work: **Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

1.2 Estimated Cost of work: : **RS. 77,64,797/-**

1.3 Earnest Money : **RS. 1,55,296/-**

1.4 Performance Guarantee - 5% of the estimated cost put to tender (ECPT) or Contract Amount whichever is higher and In case of more than 20% down additional PG will be required to submit as per CPWD DG/Manual 2024/20 dated 27-02-2026

1.5 Security Deposit - 2.5%of tendered value.

Signature of Tenderer with Stamp

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Signature of NIT issuing authority

**SCHEDULE 'F':****General Rules & Directions:-**

1. Officer Inviting Tender - **Sector Engineer, SHQ (SML), ITBP. TaraDevi Shimla (H.P.)**  
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3 See below under Clause-12.

**Definitions:-**

- 2(i) Engineer-In-Charge **Sector Engineer, SHQ (SML), ITBP. Tara Devi Shimla (H.P.)** or Successor thereof.
- 2(ii) Accepting Authority **Sector Engr SHQ (SML) / Comdt (E) SHQ(SML) / DIG(E) Ftr HQ or competent authority of ITBP or his successor thereof.**
- 2(iii) Percentage on cost of materials and labour to cover all overheads and profits - 15%
- 2(iv) Standard Schedule of Rates -CPWD 2023 with upto date correction slips on last date of bid submission and market rates ( for which scheduled items not available in CPWD schedule).
- 2(v) Department **-Indo-Tibetan Border Police.**
- 2(vi) Standard CPWD Contract Form - Modified GCC 2023 Construction works, **form 7** amended/corrected upto last date of bid submission. (as per NIT approving authority)

**Clause-1:**

- (i) Time allowed for submission of Performance guarantee, programme chart (Time and Progress) and applicable labour Licences, registration with EPFO, ESIC and BOCW Welfare Board, Provident Fund Nos. or proof of applying thereof from the date of issue of letter of acceptance. **15 days**
- (ii) Maximum allowable extension with late fee @0.1% per day of the Performance guarantee amount beyond The period provided in (i) above **7 days**

**Clause-2 :**

Authority for fixing compensation Under Clause 2 - **Comdt (E) SHQ(SML) / DIG(E) Ftr H**

**Clause – 2A :**

Whether clause-2A shall be Applicable. - **Not, applicable**

**Clause-5:**

Number of days from the date of issue of letter of acceptance for Reckoning date of start - 15 days

Mile Stone - Refer Para (A) Table of Milestones

Signature of Tenderer with Stamp



**CHANDAN SINGH**  
SECOND IN COMMAND (ENGR.)  
INDO-TIBETAN BORDER POLICE

Signature of NIT issuing authority

Time allowed for execution of work

- 06 **working Months (180 Working days)****Authority to decide:-**

- i. Extension of time for Completion of work. - **NIT approving authority of work** or his successor thereof (as per CPWD manual)
- ii. Re-scheduling of Mile stones - **NIT approving authority of work** or his successor thereof
- iii Shifting of date of start in case of delay in handing over of site. - **Engineer in charge of work** or his successor thereof

**Performa of Schedules****Clause 05 schedule of handing over of site :-**

Portion of site	Description	Time period for handing over reckoned
Portion without any hindrance	100 %	from date of issue of letter of intent

**Schedule of issue of Designs:-**

Detail of drawings attached with NIT	Time period for issue of design reckoned from date of receipt of tenders
Lay out plan and line diagram of building/work	Vetted structural Design, drawings to be provided by contractor within 2 weeks of acceptance of tender

**Clause 5.4** :-Schedule of rate of recovery for delay in submission of the modified programme in terms of delay Per day

Sl. No.	Contract Value	Recovery Rs.
I.	Less than or equal to Rs. 1 crore	500
II.	More than Rs. 1 Crore but less than or equal to Rs. 5 Crore	1000
III.	More than Rs. 5 Crore but less than or equal to Rs. 15 Crores	2500

**Clause-7:** Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment

Not applicable.

**Clause-7A:-**

Regarding applicability of labour laws:-  
Related to Labour licensee, registration of contractor with EPFO, ESIC and BOCW welfare board i/c Provident Fund

Yes, Applicable

No running account bill shall be paid in the work till the applicable labour licenses, registration with EPFO, ESIC, BOCW welfare board including Provident Fund Code No. are submitted by the contractor to the Engineer-in-charge.

**Clause 8 A :**

Authority to decide compensation on account

**Engineer-In-charge**

Signature of Tenderer with Stamp

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**CHANDAN SINGH**  
SECOND IN COMMAND (ENGR.)  
CITY ENGINEER, METRO FORCE

Signature of NIT issuing authority

if contractor fails to submit completion plans.

**Clause-10A:-**

List of testing equipment to be provided by the contractor at site lab - List enclosed under specifications (Civil). For electrical works as per CPWD guidelines in consultation with engineer in charge

**Clause-10-B (ii).**

Whether clause 10-B (ii) shall be applicable - Not, Applicable

Clause-10C:- - Not Applicable,

**Clause-10-CC:** - Not Applicable.

**Clause-11:-** Specifications to be followed for- CPWD Specifications 2019 Vol. I&II with Execution of work - correction slips issued upto last date of submission of tenders.

**Clause-12:-** Type of Work: - Project and original Work.

**Clause 12.2 & 12.3**

- Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work in superstructure. - 100%
- 12.5 (i) Deviation limit beyond which Clause 12.2 & 12.3 shall apply for foundation works (except items mentioned in earth work Sub-Head in DSR and related items) - 100%
- (ii) Deviation limit for items in Earth work Sub-head of DSR and related items - 100%

**Clause-16:-** **Competent** Authority for Deciding reduced rates. - Comdt (E) SHQ/ DIG (Engr) Ftr HQ in chain of command

**Clause 18:-** List of mandatory machinery, tools & Plants to be deployed by the contractor at site. - Detail attached under head specifications

**Clause-25:** **Fall all claims dispute**

- A Conciliator-** DIG(E) respective Ftr works costing Upto Rs. 800 Lakhs I.G. (ENGR) for works costing above 800 Lakhs.
- B Arbitrator** Appointing authority I.G. (ENGR) ITBP
- C Place of arbitration** : City of Concerned SHQ i.e. SHQ (SML) Shimla HP

**Clause-32 : Requirement of Technical Representative(s) and Recovery Rates****(a) For Civil Works and Electrical work:-**

Cost of work (Estimated Cost of the work put to tender)	Minimum Qualification of Technical staff	Number of major +minor component	Minimum Experience (Years)	Designation	Rate at which recovery of contractor to be made in case of non fulfilling
More than 15 lakhs to 1.5 Crore per to quality/ <b>Notes:</b>	Graduate Engineer or Diploma Engineer	1 of major component	2 or 5 respectively	Project Manager cum planning Site /billing Engineer	Rs. 15,000/- month/ per person

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More than 1.5 to 5 Crore	Graduate Engineer or Diploma Engineer	1+1	2 or 5 respectively	Project Manager cum planning Site /billing Engineer	Rs. 15,000/- month/ per person
More than 5Cr to 10Crore	Graduate Engineer Graduate Engineer or Diploma Engineer	1	5 (and having experience of one similar nature of work) 2 or 5 respectively	Project Manager Project planning /billing Engineer	Rs. 25,000/- month
		1+1			Rs. 15,000/- month/ per person
More than 10Cr to 20Crore	Graduate Engineer	1	10 (and having experience of one similar nature of work)	Project Manager	Rs. 30,000/- month
	Graduate Engineer or Diploma Engineer	1	5 or 10 respectively	Planning /site Engineer	Rs. 25,000/- month/ per person
	Graduate Engineer or Diploma Engineer	1+1	2 or 5 respectively	Project planning/ quality/billing Engineer	Rs. 15,000/- month/ per person
	Graduate Engineer or Diploma Engineer	1+1	2 or 5 respectively	Project planning /quality /billing Engineer	Rs. 15,000/- month/ per person

**Clause-38:-**

i) Schedule / Statement for determining theoretical quantity of cement & bitumen

As per Delhi Schedule of Rates 2023 with amendments upto the last date of submission of bids.

ii) Variations permissible on theoretical quantities.

a) Cement for works with estimated cost put to tender for more than `5 Lacs.

2% plus / minus.

b) Steel Reinforcement and structural steel sections for each diameter, section and category.

2% plus / minus.

c) All other materials.

Nil.

d) Bitumen for all work.

2.5% Plus side only and NIL on minus side.

## RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

S. No.	Description of item	Rates in figures and words at which recovery shall be made from the contractor	
		Excess beyond Permissible Variation	Less use from the permissible variation
1.	Cement	NIL	Market rate at site plus 10 % extra.
2.	Steel Primary producers	NIL	...do....
3.	Structural Steel (Primary producers only) RSJ / Channel sections MS Angles / Flats / steel plates.	NIL	...do....

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 SECOND IN COMMAND (ENGR.)  
 11th BATTALION, THE RAJPUTANA  
 SINGH CLIFF FORCE

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### TABLE OF MILE STONE (S)

**Name of work:** **Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

SI No.	Financial and physical Progress	Time Allowed (from date of start)	Amount to be withheld in case of non-achievement of milestone
1.	1/4 th (of Whole work)	1/4th (of whole time)	In the event of not achieving the necessary progress as assessed from the running payments 1% of the tendered value of work will be withheld for non-achieving each milestone i.e. Total 4% will be hold for non-achieving mile stones.
2.	3/8th (of Whole work)	1/2th (of whole time)	
3.	3/4th (of Whole work)	3/4th (of whole time)	
4.	Full	Full	

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**JASWANT SINGH**  
**SECOND IN COMMAND (ENGR.)**  
**19th BN ITB Force**

Signature of NIT issuing authority

GOVERNMENT OF INDIA  
INDO TIBETAN BORDER POLICE DEPARTMENT

Name of work: **Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

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 जसवंत सिंह  
 JASWANT SINGH  
 (Second in Command)  
 SECOND IN COMMAND (ENGR.)  
 SHQ (SML) ITBP Force

Sector Engineer  
SHQ (SML) ITBP  
Taradevi Shimla (H.P.)

  
 जसवंत सिंह  
 JASWANT SINGH  
 (Second in Command)  
 SECOND IN COMMAND (ENGR.)  
 SHQ (SML) ITBP Force

## SPECIAL CONDITIONS (CIVIL)

### 1.0 General-

1.1 Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the "CPWD Specifications 2019 Vol. I & II" with upto date correction slips, additional / Particular Specifications, Architectural / structural drawings and as per instructions of Engineer-in-Charge.

The several documents forming the tender are to be taken as mutually complementary to one another. Detailed drawings shall be followed in preference to small scale drawings and figured dimensions in preference to scaled dimensions.

Should there be any difference or discrepancy between the description of items as given in the schedule of quantities, particular specifications for individual items of work (including special conditions) and I.S. Codes etc., the following order of preference shall be observed :

- i) Description of Schedule of Quantities
- ii) Particular Specifications and Special Conditions, if any.
- iii) Drawings
- iv) CPWD Specifications.
- v) Indian Standard Specifications of B.I.S.
- vi) Manufacturers' specifications & as decided by Engineer-in-charge.

"In the event of any variation/ discrepancy in the drawings, specifications and tender documents etc. the decision of the Engineer-in-charge shall be final binding and conclusive on the contractor and in case, the contractor have any doubt, same should be got clarified immediately from the Engineer-in-charge and no claim of the contractor shall be entertained thereafter. Moreover, the agency is not allowed to take benefit out of any clerical/ grammatical mistake in the standard clauses/Schedule of Quantities/Specifications etc being used in the agreement".

The works to be governed by this contract shall cover delivery and transportation upto destination, safe custody at site, insurance, erection, testing and commissioning of the entire works.

The works to be undertaken by the contractor shall interalia include the following:

- i) Preparation of detailed SHOP drawings and AS BUILT drawings wherever applicable.
- ii) Obtaining of Statutory permissions where-ever applicable and required.
- iii) Pre-commissioning tests as per relevant standard specifications, code of practice, Acts and Rules wherever required.
- iv) Warranty obligation for the equipment's and/or fittings/fixtures supplied by the contractor.

Contractor shall provide all the shop drawings or layout drawings for all the coordinated services before starting any work or placing any order for any of the services etc. These shop drawings/layout drawings shall be got approved from Engineer-in-charge before implementation and this shall be binding on the contractor. The contractor shall submit material submittals along with material sample for approval of Engineer-in-charge prior to delivery of material at site.

1.2 Any reference made to any Indian Standard Specifications, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards upto last date of receipt of tenders. The Contractor shall keep at his own cost all such publications including relevant Indian Standard Codes applicable to the work at site.

1.3 All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested before covering.

1.4 Samples including brand / quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.

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- 1.5 Equipment's like concrete pumps excavators/Transit mixers etc. shall be allowed to be moved away from the site when, in written opinion of Engineer-in-Charge, the same are no longer required at site of work.
- 1.6 The contractor, his authorized representative, workmen etc. shall strictly observe orders pertaining to fire precautions prevailing in the area.
- 1.7 Contractor(s) shall study the soil investigation report for the site, available in the office of the Engineer-in-Charge and satisfy himself about complete characteristics of soil and other parameters at site. However, no claim on the alleged inadequacy or incorrectness of the soil data supplied by the department shall be entertained.
- 1.8 The tenderer shall see the approaches to the site. In case any approach from main road is required at site or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost.
- 1.9 Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.
- 1.10 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused to work due to negligence on his part. No hindrances shall be caused to traffic, during the execution of the work.
- 1.11 The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, compound wall, services etc. are to be constructed.
- 1.12 The contractor shall provide at his own cost suitable weighing, surveying and levelling and measuring arrangements as may be necessary at site for checking. All such equipment's shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.
- 1.13 Contractor shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings.
- 1.14 Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to approved manufacturers specifications where CPWD Specifications are not applicable. The contractor should get the materials (fixtures/fittings) tested from approved labs wherever required at his own cost.
- 1.15 The work shall be carried out in accordance with the Architectural drawings and Structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work, nomenclature of items, specifications etc. and satisfy himself that the information available there from is complete and unambiguous. The figures & the written dimensions of the drawing shall supersede the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge for immediate decision before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim, whatsoever shall be entertained on this account.
- 1.16 The contractor should submit the shop drawing of staging and shuttering for approval of Engineer-in-Charge before actually commencing the execution of work under the item. Nothing extra shall be payable on this account.
- 1.17 Other agencies may also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be available as specified elsewhere in the contract) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.
- 1.18 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

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Handwritten signature in blue ink. Below it is a circular official stamp containing the following text:
   
 00000 0000
   
 JASWANT SINGH
   
 JASWANT SINGH (SUPERVISOR)
   
 SECOND IN COMMAND (ENGR.)
   
 2017/00000 10/05/2017
   
 NIT

Signature of NIT issuing authority

- 1.19 The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and approval of the same before use in the work.
- 1.20 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. In case temporary supporting of such services is required to facilitate the work, the same shall be done by the contractor at no extra cost.
- In case the existing services are to be shifted permanently, then before dismantling the existing services, alternate/diversion of service lines has to be laid by the contractor so that there is no interruption in use of existing services. The contractor has to plan the alternate suitable route for diversion/shifting of service lines and get the same approved from the Engineer-in-Charge before starting shifting of services. Nothing extra shall be paid except the payment of dismantling and laying of new service lines as per conditions of contract.
- 1.21 The contractor shall be responsible for the watch and ward / guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the client department. No extra payment shall be made on this account.
- 1.22 The contractor shall be fully responsible for the safe custody of materials brought by him/ issued to him even though the materials may be under double lock key system.
- 1.23 For construction works which are likely to generate malba / rubbish, contractor shall dispose of malba, rubbish & other unserviceable materials and wastes at his own cost to the notified specified dumping ground and under no circumstances these shall be stacked / dumped even temporarily, outside the construction premises.
- 1.24 The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, establishment of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, preparatory works, working during monsoon, working at all depths, height, lead, lift and location etc until / unless specified otherwise and any other incidental works required to complete this work. Nothing extra shall be payable on this account.
- 1.25 For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do it and nothing extra shall be paid except otherwise provided in the items of schedule of quantities.
- 1.26 Results of sub-surface investigations conducted at site are indicated in extracts of the report attached. This information about the soil and sub-soil water conditions is being made available to the Contractor, in good faith, for guidance only and the Contractor is advised to obtain details directly as may be considered necessary by him before quoting rates in the tender. No claim whatsoever on account of any discrepancy between the sub-surface strata conditions that may be actually encountered at the time of execution of the work and those given in these tender documents, in-accuracy or interpretation thereof shall be entertained from the Contractor under any circumstances. The ground water table is a variable condition and the information given in the report is only indicative and it may vary from time to time.
- 1.27 Any legal or financial implications resulting out of disposal of earth shall be sole responsibility of the contractor. Nothing extra over the schedule shall be paid on this account.
- 1.28 The Contractor shall keep himself fully informed of all acts and laws of the Central & State Governments, all orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by Collector / MC etc. and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities. It is clarified that the extra sewerage charges (one time charges for commencement of work) required to be paid to the Municipal Corporation / other statutory bodies shall be paid by the department and need not be considered by the contractor. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. All statutory taxes, levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for

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 TECHNICAL OFFICER (SEWERAGE)  
 SECOND IN COMMAND (ENGR.)  
 NIT, RAIPUR, JHARKHAND  
 STATE ENGINEERING SERVICE FORCE

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- carrying out the work, shall be borne by the Contractor. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Department and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts. The fee payable to statutory authorities for obtaining the various permanent service connections and Occupancy Certificate for the building shall be borne by the Department.
- 1.29 Royalty at the prevalent rates shall be paid by the Contractor as per the terms of supply between them on all materials such as boulders, metals, sand and bajri etc. collected by him for the execution of the work, directly to the revenue authority of the state government concerned. Nothing extra shall be payable on this account.
- 1.30 No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.
- 1.31 The Contractor shall conduct his work so as not to interfere with or hinder the progress of the work being performed by other Contractors or by the Engineer-in-Charge. As far as possible, he shall arrange his work and place, so as not to interfere with the operations of other Contractors or shall arrange his work with that of the others, in an acceptable and coordinated manner and shall perform it in proper sequence.
- 1.32 The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.
- 1.33 The Contractor shall make all necessary arrangements for protecting from rains, the work already executed and for carrying out the further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account. Also, no claims for hindrance shall be entertained on this account.
- 1.34 In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any.
- 1.35 The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general. The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipment's for execution of the work, so as to cause minimum environmental pollution of any kind during construction, to have minimum construction time and minimum inconvenience to road users and to the occupants of the buildings on the adjacent plot and public in general, etc. He shall make good at his own cost and to the entire satisfaction of the Engineer in Charge any damage to roads, paths, cross drainage works or public or private property whatsoever caused, due to the execution of the work or by traffic brought thereon, by the Contractor. Further, the Contractor shall take all precautions to prevent any pollution of streams and waterways. All waste or superfluous materials shall be carted away by the Contractor, entirely to the satisfaction of the Engineer-in-Charge. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim whatsoever on account of site constraints mentioned above or any other site constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Contractors are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

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- 1.36 All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, barricading, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, etc.
- 1.37 The Contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc. under various labour laws and other regulations applicable to the works, at his site office.
- 1.38 No tools and plants including any special T&P etc. shall be supplied by the Department and the Contractor shall have to make his own arrangements at his own cost. No claim of hindrance (or any other claim) shall be entertained on this account.

The Contractor shall be allowed to use the facilities available at site & arranged by the associate-Contractors and other agencies working at site for smooth execution of the work. The Contractor shall be

- i) Allow to use of scaffolding already erected, toilets, sheds etc.
  - ii) Properly co-ordinate their work with the work of other Contractors.
  - iii) Provide control lines and benchmarks to his associate-Contractors and the other Contractors.
  - iv) Provide electricity and water at mutually agreed rates.
  - v) Provide hoist and crane facilities for lifting material at mutually agreed rates.
  - vi) Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
  - vii) Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.
  - viii) Resolve the disputes with other Contractor amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator. The contractor shall indemnify the Department against any claim(s) arising out of such disputes.
- 1.39 On completion of work, the contractor shall submit at his own cost four prints of “as built” drawings of the completed work to the Engineer-in-Charge. These drawings shall have the following information.
- a) Run off of all piping and their diameters including soil, waste pipes and vertical stacks.
  - b) Ground and invert level of all drainage pipes together with locations of all manholes and connections, upto out fall.
  - c) Run off of all water supply lines with diameters, location of control valves, access panels etc.

In case the contractor fails to supply “as built drawing” aforesaid within 30 days of the date of completion, then the recovery @ Rs. 10,000/- for each such set of drawings shall be made from the contractor’s final bill.

- 1.40 The contractor shall have to arrange water of desirable quality for the construction purpose for which he may have to install RO plant at site or might have to bring/ purchase water from outside as per decision of Engineer-in-charge. Nothing extra shall be paid on this account.
- 2.0** Unless otherwise specified in the schedule of quantities or CPWD specifications, the rates for respective items shall be all inclusive and apply to the following: -
- i) All lifts & all heights, floors including terrace, leads and depths.
  - ii) All labour, material, tools and plants and other inputs involved in the execution of the item.
  - iii) Any of the conditions and specifications mentioned in the tender documents.
  - iv) Providing sunk flooring in bath-rooms, kitchen, etc.

- v) Any legal or financial implications resulting out of disposal of earth, if any.
- vi) Payment of Royalty at the prevailing rates, if any, on the boulders, metal, shingle, sand and bajri etc. or any other material collected by him for the work direct to revenue authorities.
- vii) Performance test of the entire installation(s) before the work is finally accepted.
- viii) Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the items.
- ix) All incidental charges for cartage, storage and safe custody of materials brought to site.

### 3.0 QUALITY ASSURANCE/ TESTING OF MATERIALS

#### 3.1 GENERAL:-

- 3.1.1 All incidental expenditure on security, construction of cement godown, access roads, arrangement of water, electricity etc. to be incurred by the agency for arranging, installing and operation of Batch Mix Plant shall be deemed to have been included in his quoted rates and no claim whatsoever will be tenable on this account.
- 3.1.2 With each Running Bill, the details of test carried out shall be submitted by the contractor as per **Performa at Page No. 50 of Part- C.**
- 3.1.3 Samples of materials required for testing shall be provided free of charge by the contractor. The cost of tests to be carried out on Steel, other materials in approved labs shall be borne by the contractor. All other expenditure required to be incurred for taking samples; conveyance, packing etc. shall be borne by the contractor himself.
  - c) All the test in field lab setup at construction site shall be carried out by the Engineering Staff deployed by the contractor which shall be 100% witnessed by ITBP (Overseer) & 50% of tests shall be witnessed by Assistant Commandant(Engr) of work. At least 10% of the tests are to be witnessed by the Engineer in charge.
  - d) All the entries in the registers will be made by the designated Engineering staff of the contractor and same should be regularly reviewed by Overseer/ Assistant Commandant (Engr) of work / Engineer incharge of work.
  - e) Contractor shall be responsible for safe custody of all the test registers.
  - f) Submission of copy of all Test Registers, Material at Site Register along with each Running Account Bill and Final Bill shall be mandatory. These registers should be duly checked by Assistant Commandant (Engr) of work / Engineer incharge of work& receipts of registers should also be acknowledged by concerned office by signing the copies and register to confirm receipt in their office.
  - g) Extensive testing of the materials used for construction is a pre-requisite for attaining high quality of the work. This shall also require specialized tests, physical, chemical, ultrasonic, x-ray and various other types of tests which cannot possibly be carried out in a site laboratory. These tests also require specialized personnel who regularly deal in such testing. Therefore, the need arises for carrying out the tests in outside laboratories. These laboratories may be in the Govt. sector, Semi Govt. or Private sector. The outside private laboratories shall be short listed before- handing over site by Assistant Commandant (Engr.) Unit/work and approval obtained from Engineer in charge. In case of laboratories in the private sector, the past record and reputation of the laboratory must invariably be given due consideration. The infrastructure in these laboratories can also be inspected before they are short listed.  
However, testing of material in any Govt., Lab / Public Undertaking Lab / IIT or NIT Lab / Govt. Engineering College may be allowed by Engineer in charge with prior approval of higher technical officers provided these labs have all necessary facility to carry out the required tests.
- 3.1.4 However, if any ultrasonic pulse velocity/load testing or special testing is to be done for concrete whose strength is doubtful, the cost of the same shall be borne by the contractor.
- 3.1.5 In case there is any discrepancy in frequency of testing as given in list of mandatory tests and that in individual sub-heads of work as per CPWD Specifications higher of the two frequencies of testing shall be followed and nothing extra shall be payable on this account.

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ITBP Force

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- 3.1.6 Special attention shall be paid towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, sealing shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling / cladding work, non-hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of plaster of Paris, water tight pipe linings, absence of hollow vertical joints in brick masonry, proper compaction of filled up earth etc to achieve an Institution of International standards and up keeping of quality assurance shall be of paramount importance, as such.

### 3.2 FIELD LABORATORY

The contractor has to establish field laboratory at site including all necessary equipment's and skilled manpower for the Field Tests as at **Page No. 48-49 of Part- Cat** this own cost to have proper quality control.

- 3.2.1 The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set-out tolerance limit shall be summarily rejected by the Engineer-in-Charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately.
- 3.2.2 The list of Laboratory/ Field equipment referred above are to be arranged and maintained by the contractor at the site of work. In case the equipment required for any test is not available at site, the department shall get the test conducted from the third party. However in that event, besides providing free materials of sample, the cost of taking of sample, packing, transportation, testing charges etc. shall be borne by the contractor irrespective of the results.
- 3.2.3 The contractor shall establish field laboratory including additional room (of minimum area of 20 sqm. each) for preserving samples of material till the completion of whole work. Nothing extra shall be paid for establishing field laboratory.

### 3.3 SAMPLE OF MATERIALS:-

- 3.3.1 All materials and fittings brought by the contractor to the site for use shall confirm to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-in-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per List of Preferred Makes(enclosed) for approval of Engineer-in-Charge, however Engineer in charge will be empowered to add/ delete any brand of construction material and contractor will be bound to provide material as approved by Engineer in charge. For all other items, ISI Marked materials and fittings shall be used with the approval of Engineer-in-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute confirming to relevant Specifications or IS codes for the approval of Engineer-in-Charge.
- 3.3.2 To avoid delay, contractor should submit samples as stated above well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-in-Charge is found defective or not confirming to specifications shall be replaced / removed by the contractor at his own risk & cost.
- 3.3.3 BIS marked materials except otherwise specified shall also be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfies the provisions of specifications relevant to the material and / or the work done.  
BIS marked items (except cement & steel for which separate provisions have been made in para 4.0) required on the work shall be got tested, for only important tests, which govern the quality of the product, as decided by the Engineer-in-Charge. The frequency of such tests (except the mandatory

test) shall be 5% of the frequency as specified in BIS. For mandatory test, frequency shall be as specified in the CPWD Specifications.

3.3.4 For certain items, if frequency of tests is neither mentioned in the CPWD Specifications & BIS, then tests shall be carried out as per decision of Engineer-in-Charge.

**4.0 CEMENT & STEEL REINFORCEMENT (TO BE SUPPLIED BY THE CONTRACTOR).**

4.1 Contractor has to produce manufacturers test certificate and challan for each lot of Cement & Steel Reinforcement procured at site.

**4.2 CEMENT:-**

4.2.1 The contractor shall procure 43 grade ordinary Portland Cement conforming to IS: 8112 / Portland Pozzolona Cement conforming to IS: 1489 (Part-1) as required in the work, from reputed manufacturers of cement such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. cement or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by Chief Engineer/Chief Project Manager CPWD for that zone.

4.2.2 Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS Codes. The cement for such testing purpose shall be supplied by the contractor free of charge. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS Codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so. The cost of tests shall be borne by the contractor.

4.2.3 Cement shall be brought at site in bulk supply as decided by the Engineer-in-Charge.

4.2.4 OPC & PPC bags shall be stored in separate godowns. Separate godowns for tested cement and fresh cement (under testing) to be constructed by the contractor at his own cost as per sketches given in C.P.W.D Specifications having weather-proof roofs and walls. The size of the cement godown is indicated in the sketches for guidance. The actual size of godown shall be as per site requirements and nothing extra shall be paid for the same. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with Engineer-in-Charge or his authorized representative of the work and that of other lock with the authorized agent of the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed performa and signed daily by the contractor or his authorized agent and Engineer-in-Charge or his authorized representative in token of its correctness. The day to day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the contractor or his authorized representative which shall be duly signed by the authorized representative of the Engineer-in-Charge before issue to the work on day to day basis. The contractor shall be responsible for the watch and ward and safety of the cement go-downs. The contractor shall facilitate the inspection of the cement go-downs by the Engineer-in-Charge at any time.

4.2.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause-42 of the contract and shall be governed by the conditions laid therein.

4.2.6 If the quantity of cement actually used in the work is found to be more than the theoretical quantity of cement including authorized variation, nothing extra shall be payable to the contractor on this account. In the event of it being discovered that after the completion of the item of work, the quantity of cement used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in Clause - 42), the cost of quantity of cement not so used shall be recovered from the contractor as specified in schedule. Decision of the Engineer-in-Charge in regard to theoretical

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quantity of cement which should have been actually used as per the schedule and recovered at the rate specified, shall be final and binding on the contractor.

For non-scheduled items, the decision of the Engineer incharge regarding theoretical quantity of the cement, which should have been actually used, shall be final and binding on the contractor.

- 4.2.7 Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-Charge.
- 4.2.8 In case the contractor brings surplus quantity of cement the same shall be removed from the site after completion of work by the contractor at his own cost after approval of the Engineer-in-Charge.
- 4.2.9 Cement, which is not used within 90 days from its date of manufacture, shall be retested at approved laboratory. Until the results of such tests are found satisfactory, it shall not be used on the work. The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-In-Charge. If he does not do so within 3 days of receipt of such notice, the Engineer-In-Charge shall get it removed at the cost of the contractor.

#### 4.3 STEEL REINFORCEMENT: -

- 4.3.1 Only ISI marked TMT Bars of various grades shall be procured from steel manufacturer/sellers.
1. The Engineer incharge Shall approve the steel manufacturers subject to the guidelines for eligibility criteria and other technical parameters of steel reinforcement.
- 4.3.2 The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
- 4.3.3 Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not confirm to the specifications the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time on written orders from the Engineer-in-Charge to do so.
- 4.3.4 The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-charge.
- 4.3.5 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 4.3.6 For checking nominal mass, tensile strength, bend test, re-bend test one sample for each, specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:

Size of bar	For consignment upto or below 100 tonnes	For consignment above 100 tonnes
Under 10 mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part there of
10 mm to 16 mm dia bars	One sample for each 35 tonnes or part there of	One sample for each 45 tonnes or part there of
Over 16 mm dia bars	One sample for each 45 tonnes or part there of	One sample for each 50 tonnes or part there of

- 4.3.7 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.
- 4.3.8 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be

worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.

- 4.3.9 The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 4.3.10 If the actual Weight of sample found lower than standard weight than actual weight will be paid . In the case if the actual weight of sample found higher than the standard weight than standard weight will be paid for billing purpose.

**5.0      SECRECY**

- 5.1 The contractor shall take all steps necessary that all persons employed on any work in connection with the contract have notice that the Indian Official Secrets Act 1923 applies to them & will continue so to apply even after the execution of such works under the contract.
- 5.2 The contract is confidential and must be strictly confined to the contractor's own use (except so far as confidential disclosure to sub-contractors or suppliers as necessary) and to the purpose of the contract.
- 5.3 All documents, copies thereof & extracts there from furnished to the contractor shall be returned to the Engineer-in-Charge on the completion of the work / works or the earlier determination of the contract.

**6.0      LABOUR AND SECURITY**

- 6.1 Contractor should provide his plan for labour huts as per his requirement and get it approved from the Engineer-in-Charge. The contractor will be provided space for labour huts etc. inside the campus but the space requirement and location, as assessed by Engineer-in-Charge shall be final and binding.
- 6.2 Contractor has to follow the security requirement of the campus and obtain necessary entry passes for the labour and vehicles and follow security checks at entry / exit gates, restriction on movement of vehicle, restricted timings of working etc. The Department however shall assist the contractor in obtaining such passes for movement of vehicles and labour. No claim whatsoever shall be entertained on account of delay in entry of vehicles and labour including restrictions in working hours, if there is any.
- 6.3 The contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. The contractor shall, on demand submit list of his agents, employees and work people concerned & shall satisfy as to the bonafides of such people.
- 6.4 The contractor & his work people shall observe all relevant rules regarding security promulgated in which work is to be carried out by the Controlling Administrative Authority of the campus/area (hereinafter referred to as "Administrator").
- 6.5 The contractor, his representative, workman shall be allowed to enter through specified gates & timing as laid down by the controlling authority. They shall be issued an identity card or an individual pass in accordance with the standing rules & regulations & they should possess the same while working. The contractor shall be responsible for the conduct & actions of his workmen, agents / representatives.
- 6.6 Normally contractor shall be allowed to carryout work between 7 AM to 6 PM. However, he may also be allowed to carry out the work beyond 6 PM & upto 7 AM if the site conditions / circumstances so demand with prior written permission from the "Administrator". However, if the work is carried out in more than one shift or at night, no claim on this account shall be entertained.
- 6.7 Normally contractor's material / vehicles etc. shall be allowed to move in / go-out between 7 AM to 7 PM only & no movement of material / vehicles out of site of work shall be allowed during night hours unless specific permission is obtained from the "Administrator".
- 6.8 In case if a separate entry has been allowed, the contractor has to make all arrangement for making a separate entry gate and barricading of the working area to segregate/separate the same from other areas. All these have to be done by the contractor at his own cost including safeguarding any untoward incident in the restricted area due to separate entry gate and barricading arranged by the contractor. No extra amount on this account shall be payable by the department.

**7.0 DOCUMENTATION**

The Contractor shall render all help and assistance in documenting the total sequences of this project by way of photography, slides, audio / video recording & other records etc. Nothing extra shall be payable to Contractor on this account. The original films shall be the property of the Department. No copy shall be prepared without prior approval of Engineer- in – Charge.

**8.0 PROGRAM CHART: -**

8.1 The Contractor shall submit a Programme Chart (Time and Progress) for each milestone alongwith performance guarantee and get it approved from the department. The chart shall be prepared in direct relation to the time stated in the contract documents for completion of the items of the work. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-charge and the contractor within the limitations of time imposed in the contract documents, and further to ensure good progress during the execution of the work. The contractor shall in all cases in which time allowed for any work exceeds one month (save for special jobs for which a separate program has been agreed upon) complete the work as per milestones given in Schedule 'F'.

8.2 The work has to be completed in stages as indicated in the **Table of Milestones under Schedule 'F' Page No. 22 of Part -A** and the program should be prepared in such a manner to achieve these Milestones as indicated therein or earlier.

8.3 The program chart should include the following: -

- a) Descriptive note explaining sequence of various activities.
- b) Network (PERT / CPM / BAR CHART) prepared on MS project which will indicate resources in financial terms, manpower and specialized equipment's for every important stage.
- c) Program for procurement of materials by the contractor.
- d) Program of procurement of machinery / equipment's having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.

8.4 If at any time, it appears to the Engineer-in-Charge that the actual progress of work does not confirm to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program by additional inputs to ensure completion of the work within the stipulated time.

8.5 The submission of revised program or approval by the Engineer-in-Charge of such program or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.

Notwithstanding the fact that the contractor will have to pay to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amounts for any other reason.

**9.0 PROGRESS AND MONITORING OF WORK:**

9.1 Apart from the above integrated program chart, the contractor shall be required to submit monthly progress report of the work in a computerized form. The progress report shall contain the following, apart from whatever else may be required as specified:

- i) Construction schedule of the various components of the work through a bar chart as specified), showing the milestones, targeted tasks and up to date progress.
- ii) Progress chart of the various components of the work that are planned and achieved, for the month as well as cumulative up to the month, with reason for deviations, if any in a tabular format.
- iii) Plant and machinery statement, indicating those deployed in the work.
- iv) Man-power statement, indicating individually the names of all the staff deployed on the work, along with their designations.

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- v) Financial statement, indicating the broad details of all the running account payment received up to date, such as gross value of work done, advances taken, recoveries effected, amount withheld, details of payment received etc.
- 9.2 For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.
- 9.3 The work should be planned in a systematic manner so that chase cuttings in the walls, ceilings and floors is minimized. Wherever absolutely essential, the chase shall be cut using chase cutting machines. Chases will not be allowed to be cut using hammer / chisel. The electrical boxes should be fixed in walls simultaneously while raising the brick work. The contractor shall ensure proper co-ordination of various disciplines viz. building works, sanitary & water supply & electrical installations etc.
- 9.4 The contractor shall construct work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-charge.
- 9.5 The Contractor shall do proper sequencing of the various activities by suitably staggering the activities within various pockets in the plot so as to achieve early completion. The agency may deploy adequate equipment, machinery and labour as required for the completion of the entire work within the stipulated period specified. Also ancillary facilities shall be provided commensurate with requirement to complete the entire work within the stipulated period. Nothing extra shall be payable on this account. Adequate number/sets of equipment in working condition, along with adequate stand-by arrangements, shall be deployed during entire construction period. It shall be ensured by the Contractor that all the equipment, Tools & Plants, machineries etc. provided by him are maintained in proper working conditions at all times during the progress of the work and till the completion of the work. Further, all the constructional tools, plants, equipment and machineries provided by the Contractor, on site of work or his work shop for this work, shall be exclusively intended for use in the construction of this work and they shall not be shifted / removed from site without the permission of the Engineer-in-Charge.
- 9.6 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

#### 10.0 DEFECT LIABILITY:

- 10.1 The contractor's liability during the defect liability period from the final date of completion as per clause 17 shall be limited to rectification of defects including replacement as follows which in the opinion of Engineer-in-Charge are not manmade.

Sl. No.	Description	Defect Liability
(i)	Concrete/ RCC	Rectification of structural / superficial / non-structural cracks. Rectification of dampness / seepage in roof slab / junctions & sunken portion. Rectification of cracks in beam, shade, column.
(ii)	Brick work/ Concrete Block Masonry	Rectification of cracks in panel wall / portion. Cracks / settlement of dwarf walls. Rectification of efflorescence/ leaching.
(iii)	Joinery	Replacement of warped joinery. Cracks in panels, rails / styles etc.
(iv)	Builders Hardware	Repairs / Replacement of loosened / pre-mature failure of fittings. Tightening / Replacement of sag in mosquito proofing.
(v)	Steel & Iron work	Rectification / Replacement of defective part of rolling shutter.

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Sl. No.	Description	Defect Liability
		Redoing of defective portion in fabrication / welding including painting Steel windows, grills, gates etc.
(vi)	Roof treatment	Rectification of leakage / seepage of roof slab including covering at junction till guarantee period.
(vii)	Plastering	Rectification of structural / superficial cracks if any. Rectification of protruding / peeling off plaster if any. Rectification of efflorescence etc.
(viii)	Flooring	Rectification of sinking portion of plinth protection including saucer drain. Settlement of foundation & floors, hollow sounding, cracks in tiles/stones.
(ix)	Plumbing / Sanitary fittings	Making good of leakage through soil / waste pipe joints. Replacement of looking mirror if found wavy. Rectification of leakage of overhead tanks. Leakage / seepage of sunken floor, blockage of taps / pipes, non-functioning of cistern.
(x)	Finishes	Making good of defective / dissimilar patches of painting to match with remaining surfaces, peeling of paint.
(xi)	Internal Water Supply	Repairs / Replacement of defective taps / fittings. Repair to leakage of GI water pipe lines including joints. Removal of blockage of GI pipe lines.
(xii)	Roads	Repair of sunken portion of road & potholes, if any
(xiii)	Sewage	Rectification of slope / system if found defective during use. Rectification of major blockage in Sewer lines. Cracks & settlement of sewage lines.
(xiv)	Drains	Repair to Drains. Settlement of Drains
(xv)	External Water Supply	Repairs to installations & fittings.
(xvi)	General	All manufacturing defects of structures / fixtures / fittings / equipments other than listed above including any defects of shrinkage or other faults that appear in the work within twelve months after a certificate of its completion is given by the Engineer-in-Charge shall be rectified by the contractor.
(XV)	Roofing sheet	Repairing/ replacement of damaged sheet/ portion.

## 11.0 SAFETY MEASURES

11.1 Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.

### 12.2 Warning / Caution Boards

All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also, he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge. Nothing extra shall be payable on this account.

### 12.3 Sign Boards

The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, client / owner, architects, structural

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consultants, Department etc. besides providing space for names of other Contractors, Associate contractors and specialized agencies. Nothing extra shall be payable on this account.

- 12.3.1 Necessary protective and safety equipment's shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and used at site.
- 12.3.2 No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer -in- Charge in this regard. Also all precautions and safety measures shall be taken by the Contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.

**13.0 Special condition for Hardware and Sanitary Wares:**

- 13.1 Engineer-in-Charge will take a decision regarding model numbers of equivalent Door/window hardware, sanitary ware & Water Supply accessories at the time of execution, in case the material, from the manufacturer whose model number is mentioned, is not available. However, in case, the equivalent model so approved, is cheaper than the model already mentioned in item/approved makes list, the price adjustment will be made based on the difference in market rate. In case, the rate of subsequently approved model is more, no extra payment will be made on this account.

## PARTICULAR SPECIFICATIONS (Civil)

### 1.0 EARTH WORK: -

1.1 Earth work shall be executed as per CPWD specifications 2019, Volume-I with upto date correction slips. In addition to that following specifications shall also be followed:

### 1.2 EARTH WORK FOR MAJOR WORKS

- 1.2.1 Excavation shall be undertaken to the width of the Basement/Retaining wall footing including necessary margins for construction operation as per drawing or directed otherwise. Where the nature of soil or the depth of the trench and season of the year, do not permit vertical sides, the contractor at his own expense shall put up the necessary shoring, strutting and planking or cut slopes with or without steps, to a safer angle or both with due regard to the safety of personnel and works and to the satisfaction of the Engineer. Measurement of plan area of excavation for payment shall be permitted only.
- 1.2.2 All the major excavation shall be carried out by mechanical excavator. No extra payment shall be made for that.
- 1.2.3 The contractor shall make at his own cost all necessary arrangements for maintaining water level, in the area where works are under execution low enough so as not to cause any harm to the work shall be considered as inclusive of pumping out or bailing out water, if required, for which no extra payment shall be made. This will include water coming from any source, such as rains, accumulated rain water, floods, leakages from sewer and water mains subsoil water table being high or due to any other cause whatsoever. The contractor shall make necessary provision of pumping, dredging bailing out water coming from all above sources and excavation and other works shall be kept free of water by providing suitable system approved by the Engineer-in-charge. In order to avoid possibility of basement floor of main building being getting uplifted/damaged due to water pressure, the contractor shall lower the ground water table below the proposed foundation level by boring tube wells all around the proposed building using well point sinking method or any suitable method as approved by Engineer-in-charge. Sub soil water table shall be maintained at least 50 cm. below the P.C.C. level during laying of P.C.C. water proofing treatment, laying of basement raft and beams including filling of earth/sand under the basement floor. The water table shall not be allowed to rise above base of raft level until completion of outer retaining walls including water proofing of vertical surface of walls and back filling along the walls upto ground level and until the structure attains such height to counter balance the uplift pressure. However, the contractor should inspect the site and make his own assessment about sub-soil water level likely to be encountered at the time of execution and quote his rates accordingly. Rate of all items are inclusive of pumping out or bailing out water, if required. Nothing extra on this account whatsoever shall be paid to him. The sequence of construction shall be got approved by the Engineer-in-charge.
- 1.2.4 The contractor shall take all necessary measures for the safety of traffic during construction and provide, erect and maintain such barricades including signs, markings, flags, lights and flagman, as necessary at either end of the excavation/embankment and at such intermediate points as directed by the Engineer-in-charge for the proper identification of construction area. He shall be responsible for all damages and accidents caused due to negligence on his part.
- 1.2.5 The contractor shall provide suitable barricading with suitably painted single row of G.I. Sheets about 3'- 0" wide (90 cms) nailed or bolted with wooden poles spaced 2 to 3 metre apart and each pole 1.6 m to 2 m long 8 cm. to 10 cm. dia. The poles will be embedded in mobile iron pedestal rings suitably framed for giving stable support as per direction of the Engineer-in-charge. All management (including watch and ward) of barricades shall be the full responsibility of the contractor. The barricades shall be removed only after completion of the work or part of the work. The contractor's rate shall include all above items of work and nothing extra shall be paid to the contractor over and above his quoted rates.

- 2.0 **R.C.C. WORK:** -The contractor shall use concrete mixer to mix the concrete . If hand mix than 10 % extra cement will provide free of cost.

All other operations in concreting work like mixing, slump, laying, placing of concrete, compaction, curing etc. not mentioned in this particular specifications for Ready Mix of Concrete shall be as per CPWD Specifications.

## 2.4 SAMPLING:-

### 2.4.1 General :

Samples from fresh concrete shall be taken as per IS 1199 and cubes shall be made, cured and tested at 28 days in accordance with IS 516. 15.1.1 In order to get a relatively quicker idea of the quality of concrete, optional tests on beams for modulus of rupture at 72 + 2 h or at 7 days, or compressive strength tests at 7 days may be carried out in addition to 28 days compressive strength test. For this purpose the values should be arrived at based on actual testing. In all cases, the 28 days compressive strength specified in Table 2 of code of practice, IS:456 2000 shall alone be the criterion for acceptance or rejection of the concrete.

#### (a) FREQUENCY OF SAMPLING: -

- i) A random sampling procedure shall be adopted to ensure that the sampling is spread over the entire period of concreting and cover all mixing units. The concrete work shall be notionally divided into lots as under for the purpose of sampling conditions.
  - a. Footings, rafts etc.
  - b. Columns and walls at all levels.
  - c. Beams at all levels.
  - d. Slabs at all levels.
- ii) At least one test sample shall be taken for each lot of concrete work.
- iii) Each grade of concrete shall form different lot for testing.
- iv) The minimum frequency of sampling of concrete of each grade shall be in accordance with CPWD specification 2019, Vol I with upto date correction slips.
- v) The concrete work shall be assessed on day to day basis & samples shall be taken as specified.
- vi) Work strength test shall be conducted in accordance with IS: 516 on random sampling.

However, the minimum frequency of sampling of concrete of each grade shall be in accordance with the following:

Quantity of Concrete in the work m3	Number of Samples
1 - 5	1
6 - 15	2
16 - 30	3
31- 50	4
51 and above	4 plus one additional sample for each Additional 50 cum or part thereof.

**NOTE-** At least one sample shall be taken from each Shift. Where concrete is produced at continuous production unit, frequency of sampling may be decided by Engineer-in-charge in such a manner so as to ensure that each concrete batch shall have a reasonable chance of being tested.

### 2.4.2 Test Specimen

Three test specimens shall be made for each sample for testing at 28 days. Additional samples may be required for various purposes such as to determine the strength of concrete at 7 days or at the time of striking the formwork, or to determine the duration of curing, or to check the testing error. Additional samples may also be required for testing samples cured by accelerated methods as described in IS 9103. The specimen shall be tested as described in IS 516.

**2.4.3 TEST RESULTS OF SAMPLES: -**

The test results of the sample shall be the average of the strength of three specimens. The individual variation shall not be more than + 15% percent of the average. If variation is more, the test results shall be treated as invalid. Test will be carried out in the any Govt .laboratory or other private laboratory as directed by the Engineer-in-Charge.

**2.4.4 ACCEPTANCE CRITERIA****2.4.5 Compressive Strength**

The concrete shall be deemed to comply with the strength requirements when both the following conditions are met:

- a) The mean strength determined from any group of four consecutive test results compiles with the appropriate limits in col 2 of Table given under para 2.1.4 above.
- b) Any individual test result complies with the appropriate limits in col 3 of Table given under para 2.1.4 above.

**2.4.6 Quantity of Concrete Represented by Strength Test Results**

The quantity of concrete represented by a group of four consecutive test-results shall include the batches from which the first and last samples were taken together with all intervening batches.

Where the mean rate of sampling is not specified the maximum quantity of concrete that four consecutive test results represent shall be limited to 60 m3.

2.4.7 Concrete of each grade shall be assessed separately.

2.4.8 Concrete is liable to be rejected if it is porous or honey-combed, its placing has been interrupted without providing a proper construction joint, the reinforcement has been displaced beyond the tolerances specified, or construction tolerances have not been met. However, the hardened concrete may be accepted after carrying out suitable remedial measures to the satisfaction of the Engineer-in-Charge.

**2.5 MEASUREMENT –**

- (i) As per CPWD Specifications (Vol-I) 2019 with upto date correction slips
- (ii) In respect of all projected slabs at all levels including cantilever, canopy, the payment for the RCC work shall be made under the item RCC slabs. The payment for shuttering at the edges shall be made under item of centering and shuttering for RCC slabs. Nothing extra shall be paid for the side shuttering at the edge of these projected balconies / projected verandah slabs.

**2.6 TOLERANCES -** As per CPWD Specifications.

**2.7 RATES: -**

- (i) The rate includes the cost of materials, labour and T&P, including mixing, placing, transportation involved in all the operations described above except for the cost of centering, shuttering & reinforcement which will be paid for separately. It includes finishing i.e. making the top surface of smooth/in required level with trowel etc.
- (ii) In case of rejection of concrete on account of unacceptable compressive strength, governed by para “Standard of Acceptance” as above, the work for which samples have failed shall be redone at the cost of contractor. However, the Engineer-in-charge may order for additional tests (like cutting cores, ultrasonic pulse velocity test, load test on structure or part of structure, etc) to be carried out at the cost of contractor to ascertain if the portion of structure wherein concrete represented by the sample has been used, can be retained on the basis of results of individual or combination of these tests. The Contractor shall take remedial measures necessary to retain the structure as approved by the Engineer-in-charge without any extra cost. However, for payment, the basis of rate payable to contractor shall be governed by the 28 days cube test results and reduced rates shall be regulated in accordance with CPWD Specifications.

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TECHNICAL OFFICER (SUPERV.)  
SECOND IN COMMAND (ENGR.)  
NIT, JALANDHAR  
NIT, JALANDHAR

Signature of NIT issuing authority

**2.8 RCC WORK (ORDINARY)**

- 2.8.1 The work shall be done in accordance with CPWD Specifications (Vol-I) 2019 with upto date correction slips.
- 2.8.2 Water Cement ratio for Ordinary RCC work shall not be more than 0.5. Contractor shall use concrete mixture of proper design having arrangement for measuring water for mixing of concrete.

**2.9 FORM WORK**

- 2.9.1 The work shall be done in general as per CPWD Specifications.
- 2.9.2 Only M.S. centering / shuttering and scaffolding material unless & otherwise specified shall be used for all R.C.C. work to give an even finish of concrete surface. However, marine-ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor to be approved by the Engineer-in-Charge. But nothing extra shall be paid on this a/c.
- 2.9.3 Nothing extra shall be paid for the centering and shuttering, circular in shape whenever the formwork is having a mean radius exceeding 6m in plan.
- 2.9.4 Nothing extra shall be paid for grid beams and the corresponding slabs having clear span more than 1.20 metres.
- 2.9.5 In order to keep the floor finish as per architectural drawings and to provide required thickness of the flooring as per specifications, the level of top surface of R.C.C. shall be accordingly adjusted at the time of its centering, shuttering and casting for which nothing extra shall be paid to the contractor except the places where different type of flooring is provided in the same room.

As per general engineering practice, level of floors in toilet / bath, balconies, shall be kept 12 to 20mm or as required, lower than general floors shuttering should be adjusted accordingly. Nothing extra is payable on this account.

- 2.9.6 Steel shuttering as approved by the Engineer-in-Charge shall be used by the contractor. Minimum size of shuttering plates shall be 600mm x 900mm except for the case when closing pieces are required to complete the shuttering panels.  
Dented, broken, cracked, twisted or rusted shuttering plates shall not be allowed to be used on the work. The shuttering plates shall be cleaned properly with electrically driven sanders to remove any cement slurry or cement mortar or rust. Proper shuttering oil or de-bonding compound shall be applied on the surface of the shuttering plates in the requisite quantity before assembly of steel reinforcement.

**2.10 REINFORCEMENT:-**

- 2.10.1 The reinforcement shall be done as per CPWD Specifications.
- 2.10.2 The rate of item of reinforcement of RCC work includes all operations including straightening, cutting, bending, welding, binding with annealed steel wire or welding and placing in position at all the floors with all leads and lift complete as per CPWD Specifications.
- 2.10.3 The contractor shall provide approved type of support for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings, spacer blocks of required shape and size. Chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. Spacer blocks shall be casted well in advance with approved proprietary pre-packed free flowing mortars (Conbextra as manufactured by M/s Fosroc Chemicals India Ltd. or of approved equivalent) of high early strength and same colour as of surrounding concrete. However, Cover Guard Bars shall also be used to maintain proper cover of RCC Columns in addition to spacer blocks as mentioned above. Pre-cast cement mortar/concrete blocks/blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-charge, rate of RCC items is inclusive of cost of such cover blocks & Cover Guard Bars.

**2.11 PRE-CAST RCC WORK**

- 2.11.1 The work shall be done in accordance with CPWD Specifications.
- 2.11.2 Pre-cast reinforced concrete units shall be of grade or mix as specified. Provision shall be made in the mould to accommodate fixing devices such as hooks etc. and forming of notches and holes. Each unit shall be cast in one operation. A sample of the unit shall be got approved from Engineer-in-charge before taking up the work.

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- 2.11.3 Pre-cast units shall be clearly marked to indicate the top of member and its location.
- 2.11.4 Pre-cast units shall be stored, transported and placed in position in such a manner that these are not damaged.
- 2.11.5 The compaction of the concrete shall be done by vibrating, table or external vibrator, as approved by Engineer-in-charge. The rate quoted for the item shall include the element for framework and mechanical vibration.
- 2.11.6 Rate for item includes cost of all materials, labour, and all operations involved. Cost of M.S. frames, lugs including their welding, lifting hooks is also included.
- 2.11.7 In the item of providing and fixing precast reinforced cement concrete in shelves the cost of cutting chases and making good the same shall be inclusive in the item and nothing extra shall be paid on this account.

**3.0 BRICK WORK:-**

- 3.1 The brickwork shall be carried out with good quality well burnt FPS bricks of class designation 75 as per CPWD Specifications. Exposed brick work for ground level to plinth level shall be executed with selected FPS bricks of class designation 75.
- 3.2 The rate shall also include for leaving chases / notches for dowels / cramps for all kinds of cladding to come over brick work.
- 3.3 Brick work provided around shaft or lift walls or around slab cut outs shall be measured in the brick for corresponding floor level. Nothing extra shall be paid on this account.
- 3.4 M.S. Strip/ Bar provided at every third course of half brick masonry shall be in single piece. If required, welding joint can be used without overlaps. Nothing extra shall be paid for welding and overlaps.

**4.0 STONE / MARBLE WORK**

- 4.1 General: - The execution of stones work shall be in general as per CPWD Specifications (Volume-I) 2019, with up-to-date correction slips.

**4.2 GRANITE/ MARBLE WORKS**

- 4.2.1 The granite/ marble stonework shall, in general, be carried out as per the CPWD Specifications. The specifications for dressing, laying, curing, finishing, measurements, rate etc. for the granite/ marble stone flooring shall be same as that of works for the Marble flooring, skirting and risers of steps under Flooring Sub Head of the CPWD Specifications. The wall lining / veneer work with granite/ marble stone shall be as per the CPWD Specifications for Marble work Sub Head.
- 4.2.2 The decision of the Engineer-in-Charge as regards the approval of the samples for the various types of the granite/ marble stones shall be final and binding on the Contractor. No claim of any kind whatsoever shall be entertained from the Contractor on this account. The Contractor shall then procure and get the mock up prepared at site of work for approval of quality of workmanship and the granite/ marble stone as specified. The mock up shall be prepared in lift lobby, toilet etc. on one of the floors. The size of the stones shall be as per the architectural drawings. If the quality of the workmanship and the material is as per the required standards, the mock up shall be allowed as part of the work and measured for payment and shall not be dismantled. Otherwise, it shall be dismantled by the contractor as directed by the Engineer-in-Charge and taken away from the site of the work at his own cost. Nothing extra shall be payable on this account.
- 4.2.3 That the curvilinear profile of the entrance steps for the building shall be negotiated in segmental manner (using trapezoidal shaped granite stone pieces with straight edges for treads and rectangular stone pieces for the risers) and not in curved profiles as specified earlier. However the granite/ marble stone slabs shall be cut to required sizes and shapes, as per the architectural drawings, to negotiate the curved steps in segmented manner. The risers shall also be cut to required sizes and shapes and the edges chamfered at the joints, all as per the architectural drawings. However, the Contractor shall prepare the detailed shop drawings for the same and commence work only after the approval by the Engineer-in-Charge. The rate shall also include any consequent wastage, incidental charges involved in this work. Nothing extra shall be payable on this account. For the purpose of payment, the actual area of each type of granite/ marble stone as laid shall be measured.



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SECOND IN COMMAND (ENGR.)  
NIT, RAIPUR

- 4.2.4 For the steps (risers and treads) in the linear profile, the granite/ marble stone shall be provided in single pieces up to 2.0m as per the architectural drawings, unless otherwise specifically permitted by the Engineer-in-Charge. Wherever grooves are required to be provided the same is to be done as per architectural drawings and as directed by the Engineer-in-charge. Wherever required, the joints shall be provided as per the architectural drawings. Nothing extra shall be payable on these accounts.
- 4.2.5. The granite/ marble slabs used for providing and fixing in the sills, soffits and jambs of doors, windows, ventilators and similar locations shall be in single piece unless otherwise directed by the Engineer-in-Charge. Wherever stone slab other than in single piece is allowed to be fixed, the joints shall be provided as per the architectural drawings and as per the directions of the Engineer-in-Charge. In the cabin areas, the joints in sills shall preferably be provided in line with the partition wall. Depending on the number of joints, as far as possible, the stone slabs shall be procured and fixed in slabs of equal lengths as per the architectural drawings and as directed by Engineer-in-Charge.
- 4.2.6 While fixing the granite/ marble slabs in sills, soffits and jambs of doors, windows, ventilators etc., rebates shall be made by overlapping the stones at the required places for fixing shutters for doors, windows and ventilators etc. as shown in the architectural drawings and as per the directions of the Engineer-in-Charge. Epoxy based adhesives shall be used for fixing the granite/ marble stones to each other, or wherever required. The authorized overlap as per the architectural drawings or as directed by the Engineer-in-Charge shall be measured for payment under the same item. However, any extra mortar thickness required due to the overlap arrangement shall be deemed to have been included in the rate of this item. Nothing extra shall be payable on this account. The granite/ marble stone slab shall be fixed over low level storage cabinets using necessary adhesive as per the manufacturer's specification. The stone shall have uniform thickness and shall be provided in sizes as per the architectural drawings. The stone slab shall have uniformly levelled surface after fixing. All the joints shall be finished smoothly in a workmanlike manner.
- 4.2.7 The granite/ marble work shall be adequately protected by a layer of Plaster of Paris, which shall be maintained throughout and removed just before handing over of the works for which nothing extra shall be payable.
- 4.2.8 Acceptance Criteria: - The stone/tile work shall carry Five years guarantee after completion of work against unsound material, workmanship as per guarantee bond. Five years guarantee in prescribed Performa attached under Part-C must be given by the specified firm, which shall be counter signed by the contractor, in token of his overall responsibility. 10% (ten percent) of the cost of these items would be retained as security deposit in addition to normal security deposit of the whole work and the amount so deducted would be released after five years from the date of completion of the entire work under the agreement, if the performance of the items is found satisfactory. If any defect is noticed during the guarantee period, the contractor should rectify it within seven days and if not attended to the same will be got done from another agency at the risk and cost of contractor. However, this security deposit can be released in full if bank guarantee of equivalent amount is produced and deposited with the department
- 4.3 **SAMPLES FOR STONE WORK**  
 Samples of each item of stone work either individually or in combination shall be prepared for approval of Engineer-in-charge before commencement of work.
- 5.0 WOOD WORK**
- 5.1 The wood work in general shall be carried out as per CPWD Specifications (Volume-I) 2019, with up-to-date correction slips.
- 5.2 The factory shall be got approved from the Engineer-in-charge before commencement of work for factory made wood work. The sample of timber to be used shall be deposited by the contractor with Engineer-in-charge before commencement of work.
- 5.3 The shape and size of beading shall be as per drawings. The joints of beading shall be mitred.

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- 5.4 Timber shall be of specified species, good quality and well-seasoned. It shall have uniform colour, reasonably straight grains and shall be free from knots, cracks, shakes and sapwood. It shall be close grained. The contractor shall deposit the samples of species of timber to be used with the Engineer-in-Charge for testing before commencement of the work.
- 5.5 Wood work shall not be painted, oiled or otherwise treated before it has been approved by the Engineer-in-charge. All portion of timber including architrave abutting against masonry, concrete, stone or embedded in ground shall be painted with approved wood preservative or with boiling coal tar.
- 5.6 The contractor(s) shall produce cash voucher and certificates from approved Kiln Seasoning Plants about the timber used on the work having been kiln seasoned and chemically treated by them, falling which it would not be so accepted as kiln seasoned and/or chemically treated.
- 5.7 Transparent sheet glass conforming to IS: 2835 – 1977 shall be used. Thickness being governed as under unless otherwise specified in the item in wood work/steel work:

Area of Glazing	Thickness
(a) For glazing area up to 0.50 sqm	4.0 mm
(b) For glazing area more than 0.50 sqm	6.0 mm

- 5.8 Factory made wooden flush door shutters shall be carried out as per CPWD specifications (Volume-I, 2019 with upto date correction slips).
- 5.9 The work shall be executed through specialized agencies to be approved by the Engineer in Charge.
- 5.10 The contractor shall propose well in advance to Engineer-in-Charge, the names and address of the factory where from the contractor intends to get the shutters manufactured along with the credential of the firm. The contractor shall place the order for manufacturing of shutters only after obtaining approval of the Engineer in Charge whose decision in this case shall be final & binding. In case the firm is not found suitable he shall propose another factory. The factory may also be inspected by a group of officers before granting approval; shutters shall however he accepted only if these meet the specified test.
- 5.11 Contractor will arrange stage wise inspection of the shutters at factory by the Engineer-in-Charge or his authorized representative. The contractor will have no claim if the shutters brought at site in part or full lot are rejected by the Engineer-in-Charge due to bad workmanship / quality. Such defective shutters will not be measured and paid. The contractor shall remove the same from the site of work within 7 days after the written instruction in this regard are issued by the Engineer-in-Charge.
- 5.12 The shutters should be brought at site without primer / painting.

**6.0 Fire Rated Doors**

Fire rate doors shall conform to specifications lay down by NBC and/or relevant BIS codes etc.

**7.0 STEEL WORK**

All steel work shall be carried out as per CPWD Specifications. (Volume 1) 2019 with up-to-date correction slips.

**8.0 FLOORING**

- 8.1 All work in general shall be carried out as per CPWD Specifications (Volume 1) 2019 with up-to-date correction slips.
- 8.2 Whenever flooring is to be done in patterns of tiles and stones, the contractor shall get samples of each pattern laid and approved by the Engineer-in-charge before final laying of such flooring. Nothing extra shall be payable on this account.
- 8.3 Different stones / tiles used in pattern flooring shall be measured separately as defined in the nomenclature of the item and nothing extra for laying pattern flooring shall be paid over and above the quoted rate. No additional wastage, if any, shall be accounted for any extra payment.
- 8.4 Samples of flooring stones/ Tile (Kota/ Marble/ Granite/ Ceramic tiles/ Vitrified tiles etc.) shall be deposited well in advance with the Engineer-in-Charge for approval. Approved samples should be kept at site with the Engineer-in-Charge and the same shall not be removed except with the written permission of Engineer-in-Charge. No payment whatsoever shall be made for these samples.

- 8.5 The Marble/ Kota/ Granite or any other stone shall be fully supported by the details establishing the quarry and its location.
- 8.6 Full width Marble/ Kota/ Granite stone over kitchen platform shall be provided which shall not be less than 900mm long except to adjust for closing pieces. The marble / stone flooring in treads and risers of staircase shall not be less than 1500mm long except to adjust the closing pieces. Nothing extra shall be paid on these accounts
- 8.7 **Vitrified Tile Flooring**  
The tiles shall be of approved make and shall generally conform to Table 12 of IS15622. The full body Vitrified tiles of specified sizes shall be used & sample of tiles shall be got approved from the Engineer-in-Charge. All tiles shall be rectified and double charge minimum. The Mandatory tests for vitrified tiles shall be got done as per CPWD Specifications (volume-1)/relevant BIS Code.
- 8.8 **Ceramic Tiles Flooring**  
The tiles shall be procured from the approved manufactures of the specified shade & colour. The floor & wall tiles shall be conforming to IS:15622 for floor and wall tiles respectively. Tiles for dado shall be 300mm x 450mm (minimum size) or more (GROUP-III) as approved. Tiles for flooring shall be 300mm x 300mm (minimum size) or more (GROUP-V) as approved. Test shall be conducted to satisfy the quality of material as per CPWD Specifications
- 8.9 The rate of items of flooring is inclusive of providing sunken flooring in bathrooms, kitchen etc. and nothing extra on this account is admissible. The proper gradient shall be given to flooring for toilets, verandah, kitchen, courtyard, etc. as per the directions of Engineer-in-charge.
- 8.10 The entire responsibility for the quality of work will however rest with the building contractor only and he shall submit a Guarantee Bond as per Proforma at Page No. 54-56 of Part-C. 10% (ten percent) of the cost of all tile items in addition to normal security deposit of the whole work, would be retained as security deposit and the amount so deducted would be released after Five years from the date of completion of the entire work under the agreement, if the performance of the items is found satisfactory. If any defect is noticed during the guarantee period, the contractor should rectify it within seven days and if not attended to the same will be got done from another agency at the risk and cost of contractor. However, this security deposit can be released in full if bank guarantee of equivalent amount is produced and deposited with the department.
- 9.0 WATER PROOFING FOR SUNKEN FLOORS:-**
- 9.1 The work shall be got executed from the specialized agency as approved by the Engineer in Charge.
- 9.2 Total quantity of the water proofing compound required shall be arranged only after obtaining the prior approval of the make by Engineer-in-charge in writing. Materials shall be kept under double lock and key and proper account of the water proofing compound used in the work shall be maintained. It shall be ensured that the consumption of the compound is as per specified requirements.
- 9.3 The finished surface after water proofing treatment shall have adequate smooth slope as per the direction of the Engineer-in-charge.
- 9.4 Before commencement of treatment on any surface, it shall be ensured that the outlet drain pipes / spouts have been fixed and the spout openings have been chased and rounded off properly for easy flow of water.
- 9.5 **GUARANTEE BOND FOR ALL WATER PROOFING ITEMS:-**  
Ten years Guarantee bond in prescribed proforma at Page No**54-56 of Part-C** shall be submitted by the contractor which shall also be signed by both the specialized agency and the contractor to meet their liability / liabilities under the guarantee bond. However, the sole responsibility about efficiency of water proofing treatment shall rest with the building contractor. (Ten per cent) of the cost of water-proofing work shall be retained as Security Deposit in addition to normal security deposit of the whole work and the amount so deducted would be released after ten years from the date of completion of the entire work under the agreement, if the performance of the treatment is found satisfactory. If any defect is noticed during the guarantee period, the contractor shall rectify it within 15 days of receipt of intimation of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done from another agency at the risk and cost of contractor.
- 10.0 FINISHING:-**

- 10.1 The work shall be done in accordance with CPWD Specifications (Volume II) 2019 with up-to-date correction slips and/or manufacturers specifications wherever applicable.
- 10.2 All painting material of approved brand and manufacturer shall be brought to the site of work in the original sealed containers. The material brought to the site of work shall be sufficient for at least 30 days of work. The material shall be kept under the joint custody of contractor and representative of the Engineer-in-charge. The empty containers shall not be removed from the site till the completion of the work without permission of the Engineer-in-charge.
- 10.3 In the item of finishing walls with water proofing cement paint, only the plain/flat area shall be measured for payment and nothing extra shall be paid on account of pointed wall surface.

**11.0 SANITARY INSTALLATIONS /WATER SUPPLY / DRAINAGE:-**

- 11.1 The contractor shall submit schematic drawing of water supply and sanitary installation showing details of layout, including internal water supply and drainage details, showing the detail of water supply lines including fittings diameter wise and fixtures connecting to soil waste through traps and connection of W.C. to main shaft pipe for drainage including its ventilation system for approval of Engineer-in-Charge.
- 11.2 For the work of water supply and sanitary installations, the contractor shall engage the approved licensed plumbers and submit the name of proposed plumbing agencies with their credentials for approval of the Engineer-in-Charge.
- 11.3 The work in general shall be carried out as per CPWD Specifications (Volume II) 2019 with up-to-date correction slips.
- 11.4 The tendered rates shall include the cost of cutting holes/cores in walls, floors, RCC slabs etc. wherever required and making good the same for which nothing extra shall be paid.
- 11.5 The Centrifugally spun cast iron pipe IS: 3989-1984 wherever necessary shall be fixed to RCC columns, beams etc. with rawl plugs of approved quality and nothing extra shall be paid for on this account.
- 11.6 The pig lead to be used in the jointing should be as per CPWD specifications.
- 11.7 Nothing extra for providing & fixing CP Brass caps /extension pieces wherever required for CP Brass fittings shall be paid beyond the rates payable for corresponding CP Brass fittings.
- 11.8 The entire responsibility for the quality of work will however rest with the building contractor only and he shall submit a Guarantee Bond as per Performa at **Page No. 54-56** of Part-C. 10% (ten percent) of the cost of these items would be retained as security deposit in addition to normal security deposit of the whole work and the amount so deducted would be released after five years from the date of completion of the entire work under the agreement, if the performance of the items is found satisfactory. If any defect is noticed during the guarantee period, the contractor should rectify it within seven days and if not attended to the same will be got done from another agency at the risk and cost of contractor. However, this security deposit can be released in full if bank guarantee of equivalent amount is produced and deposited with the department.
- 11.9 Providing, fixing, testing and commissioning of Hub less Centrifugally cast iron pipes and fittings (Epoxy coated inside & outside) as per ISO: 6594/ IS: 15905 standard and jointing with stainless steel shielded couplings with a double stainless steel bolt and screw housing incorporating a EPDM rubber gasket as per IS: 15905/ ASTM 1277 standard inclusive of all necessary specials like bends, tees, offsets, junctions, cowls, end plug, inspection pipes etc. laid under floor/ fixed on walls and in pipe shafts. The rate shall be including angle supports, hanger, nuts bolts, anchor fasteners, fixing clamps/ channels with U-Bolts etc complete. Hub less cast iron pipes & fitting shall have tested for noise level which shall not be more than 25 dB (A) at 2 L/s.

**12.0 Defect liability:**

The contractor's liability during the defect liability period from the final date of completion as per clause 17 shall be limited to rectification of defects including replacement as follows which in the opinion of Engineer-in-Charge are not manmade.

Sl. No.	Description	Defect Liability
	Concrete	Rectification of structural / superficial / non-structural cracks. Rectification of dampness / seepage in roof slab / junctions & sunken portion. Rectification of cracks in beam, shade, column.
	Brick work	Rectification of cracks in panel wall / portion. Cracks / settlement of dwarf walls. Rectification of efflorescence.
	Joinery	Replacement of warped joinery. Cracks in panels, rails / styles etc.
	Builders Hardware	Repairs / Replacement of loosened / pre-mature failure of fittings. Tightening / Replacement of sag in mosquito proofing.
	Steel & Iron work	Rectification / Replacement of defective part of rolling shutter. Redoing of defective portion in fabrication / welding including painting. Steel windows, grills, gates etc. – defects to be rectified.
	Roof treatment	Rectification of leakage / seepage of roof slab including covering at junction till guarantee period.
	Plastering	Rectification of structural / superficial cracks if any. Rectification of protruding / peeling off plaster if any. Rectification of efflorescence
	Flooring	Rectification of sinking portion of plinth protection including saucer drain. Settlement of foundation & floors.
	Plumbing / Sanitary fittings	Making good of leakage through soil / waste pipe joints. Replacement of looking mirror if found wavy. Rectification of leakage of over head tanks. Leakage / seepage of sunken floor, blockage of taps / pipes, non-functioning of cistern.
	Finishes	Making good of defective / dissimilar patches of painting to match with remaining surfaces.
	Internal Water Supply	Repairs / Replacement of defective taps / fittings. Repair to leakage of GI water pipe lines including joints. Removal of blockage of GI pipe lines.
	Roads	Repair of sinking portion of road & potholes, if any
	Sewage	Rectification of slope / system if found defective during use. Rectification of major blockage in Sewer lines. Cracks & settlement of sewage lines.
	Drains	Repair to Drains. Settlement of Drains
	External Water Supply	Repairs to installations & fittings.
	General	All manufacturing defects of structures / fixtures / fittings / electrical or mechanical equipments other than listed above.

#### OTHER CONDITIONS

The work shall be executed according to the CPWD specifications, except where otherwise specified in

- I. Description of schedule of quantities,
  - II. Design Criteria,
  - III. General conditions and particular specifications etc.
  - IV. Sound Engineering Practice.
- The work shall be executed according to the relevant I.S. Standard for work not covered under sub paras above.

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 SECOND IN COMMAND (ENGR.)  
 NIT, RAIPUR

Signature of NIT issuing authority

- In addition to the details given in this tender documents, the design, material and construction of all cement concrete and RCC works of foundations, staging and the tank shall be governed by I.S.:456-2000, IS:1893-2016, IS:13920 & IS:3370 (Part-I, Part-II and IV) and other relevant codes.
- Primer & painting on steel/ concrete surface (as the case may be) shall be done with approved make of primer and two or more coats of first quality synthetic enamel paint, distemper, exterior paint as approved by Engineer in charge.
- The security of items stone masonry, water proofing treatment, sanitary water supply works etc (for which guarantee bond have been signed) will be released on expiry of respective bond period.
- The NIT approving authority may relax conditions, documents required etc based on urgency, site conditions, inaccessibility, poor response of tenderers etc.

**LIST OF FIELD TESTS (Civil Work)**

- I. Particle size and shape
- II. Slump test
- III. Flakiness & Elongation Index tests
- IV. Compressive strength (concrete or bricks) test
- V. Rebound Hammer test
- VI. Bulking of sand
- VII. Silt content of sand
- VIII. Temperature measuring with thermometer with brass protected end 0-200° C

**FIELD TESTING EQUIPMENT AND INSTRUMENTS (Civil Work)**

**A. Testing Equipment at Field Laboratories (Civil Work)**

- i) Balances
  - a) 7kg to 10 kg. Capacity, Semi-self-indicating type-Accuracy 10 gm
  - b) 500 gm. Capacity, Semi-self-indicating type Accuracy 1 gm
  - c) Pan Balance – 5 Kg. Capacity, accuracy 10 gm.
  - d) Weighing scale platform type 100kg capacity.
- ii) Sieves: as per IS 460-1962.
  - a) I.S. Sieves – 450 mm internal dia of sizes 100 mm, 80 mm, 63 mm, 50mm, 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm complete with lid and pan.
  - b) IS Sieves – 200 mm internal dia(brass frame) consisting of 2.36 mm, 1.18 mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.
  - iii) Sieve shaker capable of 200 mm and 300 mm dia sieves, motorized operated with timing switch assembly.
- iv) Equipment for slump test – Slump Cone, Steel Plate, tamping rod, steel scale, scoop.
- v) Graduated measuring cylinders 200 ml capacity
- vi) Enamel trays (for efflorescence test for bricks and other tests)
  - a) 300 mm X 250 mm X 40 mm
  - b) Circular plates of 250 mm dia
  - c) 600 mm X 450 mm X 500 mm
  - d) 450 mm X 300 mm X 40 mm.
- vii) ISI marked 150X150X150 mm concrete cube moulds as per site requirement – 18 Nos.
- viii) Graduated cylinder 1000 ml. Capacity.
- ix) Pumps & pressure gauges for hydraulic testing of pipes.
- x) Moisture meter
- xi) Oven
- xii) PH Meter.
- xiii) Any other equipment for site tests as outline in BIS and as directed by the Engineer-in-charge.

**B. Field Testing Instruments (Civil Work)**

- i) Steel tapes – 3 m and 50 Mtrs.
- ii) Digital Vernier Calipers
- iii) Digital Micrometer Screw 25 mm gauge
- iv) A good quality plumb bob
- v) Spirit level minimum 30 cms long with 3 bubbles for horizontal vertical
- vi) Wire gauge (circular type) disc.
- vii) Foot rule
- viii) Long nylon thread
- ix) Rebound hammer for testing concrete on requirement basis only.
- x) Magnifying glass
- xi) Screw driver 30 cms long
- xii) Ball pin hammer, 100 gms
- xiii) Plastic bags for taking samples

**Note:** The above list is only indicative and not exhaustive. (If the contractor fails to bring any of the equipment's mention under A & B of above necessary recovery shall be made from the contractor.

**C. Minimum required T&P (Civil Work)**

Sr. no.	Detail of T&P	Qty.	Remarks
1	Needle Vibrator (Diesel/Patrol operated) with one spare needle.	2 Nos.	The T&P should reach at site 5 days in advance of the requirement as per programme submitted by the contractor to the Engineer-in-Charge. This list is only indicative and not exhaustive
2	Concrete Mixer as per required size with Engine operated .	1 Nos.	

Signature of Tenderer with Stamp



JASWANT SINGH  
SECOND IN COMMAND (ENGR.)  
NIT Force

Signature of NIT issuing authority

**PROFORMA FOR TESTS CARRIED OUT**

NAME OF THE WORK : .....  
 AGREEMENT NO. & DATE : .....

SHQ(SML)ITBP  
 19<sup>th</sup> BN ITBP

Sl. No.	Item	Quantities as per agreement	Frequency as per specification	No. of tests required	R.A. bill No.	Upto date quantity	No. of tests required	No. of tests actually done	Remarks
1	2	3	4	5	6	7	8	9	10

Signature of Contractor

<b>CEMENT /PAINT REGISTER</b>										
NAME OF WOR::-						SHQ:- SHQ (SML) ITBP				
Agreement No and Date :-						Unit:- 19 <sup>th</sup> Bn ITBP				
<b>Particulars of Receipt</b>										
Date of Receipt	Source of receipt with details if Any	Batch No	Date of manufacture	Date of expiry	Qty Received	Progressive Total	Date of Issue	Qty Issued	Item of work for which issued	Qty Returned at the ned of the Day work
1	2	3	4	5	6	7	8	9	10	11

<b>Particulars of Issue</b>							
Net Issued	Qty	Progress Total	Daily Balance in hand	Contractor Initial	Over Initial	Periodical Check	
						By AC (Engr)	By DC (Engr)
12	13	14	15	16	17	17	18

Signature of Tenderer with Stamp

Signature of NIT issuing authority

## Form of Earnest Money Deposit Bank Guarantee Bond

WHEREAS, contractor..... (Name of contractor) (hereinafter called "the contractor") has submitted his tender dated ..... (date) for the construction of ..... (name of work) (hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we ..... registered office at ..... (hereinafter called "the Bank") are bound unto ..... the sum of Rs. .... (Rs. in words .....) for which payment well and truly to be made to the said ..... the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this ..... day of ..... 20.... THE CONDITIONS of this obligation are:

(1) If after Eligibility Bid opening of tender; the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;

(2) If the contractor having been notified of the acceptance of his tender by the .....Engr,ITBP.....

(a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;

OR

(b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

OR

(c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor,

OR

(d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the ..... **ITBP** ..... either up to the above amount or part thereof upon receipt of his first written demand, without the ..... **ITBP** .....having to substantiates his demand, provided that in his demand the..... **ITBP** .....will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date\* ..... after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the ..... **ITBP** .....notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE .....

SIGNATURE OF THE BANK

WITNESS .....

SEAL

(SIGNATURE, NAME AND ADDRESS)

\*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.



**FORM OF PERFORMANCE SECURITY  
BANK GUARANTEE BOND**

In consideration of the President of India (hereinafter called "The Government") having offered to accept the terms and conditions of the proposed agreement between \_\_\_\_\_ and \_\_\_\_\_ (hereinafter called "the said contractor(s)" for the work \_\_\_\_\_ (hereinafter called "The said agreement") having agreed to production of a irrevocable Bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) as security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We \_\_\_\_\_ (hereinafter referred to as "the Bank) hereby undertake to \_\_\_\_\_ (indicate the name of the bank) pay to the Government an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) on demand by the Government.

2. We \_\_\_\_\_ do hereby undertake to pay the amounts due and payable (indicate the name of the bank) under this Guarantee without any demure, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only).

3. We, the said bank further undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.

4. We \_\_\_\_\_ further agree that the guarantee herein contained shall (indicate the name of the Bank) remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-Charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor (s) and accordingly discharges this guarantee.

We \_\_\_\_\_ further agree with the Government that the government (indicate name of the bank) shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).


. We \_\_\_\_\_ lastly undertake not to revoke this guarantee except (indicate the name of Bank)

with the previous consent of the Government in writing.

8. This guarantee shall be valid upto \_\_\_\_\_ unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the \_\_\_\_\_ day of \_\_\_\_\_ for \_\_\_\_\_.  
(indicate the name of Bank)

Signature of Tenderer with Stamp

  
JASWANT SINGH  
JASWANT SINGH (SIGNED)  
SECOND-IN-COMMAND (ENGR.)  
HQ. 11 (TRENCH), THE INFANTRY  
BNS, 11 TRENCH FORCE

Signature of NIT issuing authority

GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER-PROOFING WORKS (All Water - Proofing Items).

The agreement made this..... day of ..... (Two Thousand \_\_\_\_\_ only) ..... between .....S/o .....(hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated ..... and made between the GUARANTOR OF THE ONE PART AND the Government of the other part whereby the contractor inter alia undertook to render the building and structures in the said contract recited completely water and leak-proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain water and leak proof, for ten years from the date of completion of work.

NOW THE GUARANTOR hereby guarantee that work executed by him will render the structures completely leak proof and the minimum life of such water proofing treatment shall be ten years to be reckoned from the date of the completion of work.

The decision of the Engineer-in-charge with regard to nature and cause of defect shall be final and binding on Guarantor.

During this period of guarantee, the guarantor shall make good all defects and in case of any defect being found render the building water proof to the satisfaction of the Engineer-In-Charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-charge as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to execute the water proofing or commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and / or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents have been executed by the obligator ..... and ..... by ..... for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of :-

- 1. .... 2. ....

SIGNED FOR AND BEHALF OF THE PRESIDENT OF INDIA BY ..... in the presence of :-

- 1. .... 2. ....

GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF SANITARY INSTALLATIONS / WATER SUPPLY / DRAINAGE WORK.

The agreement made this..... day of ..... (Two Thousand ..... only) ..... between .....S/o .....(hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated ..... and made between the GUARANTOR OF THE ONE PART AND the Government of the other part, whereby the contractor inter alia, undertook to render the work in the said contract recited leak proof with sound material and workmanship.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, and finishing for five years from the date of completion of work.

NOW THE GUARANTOR hereby guarantee that work executed by him will be free from any leakage, seepage, cracks in pipes and guaranteed against faulty material and workmanship improper slope, defective galvanizing etc. for Five years to be reckoned from the date of completion of the work.

The decision of the Engineer-In-Charge with regard to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects and in case of any defect to satisfaction of Engineer-in-charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the guarantor's cost and risk. The decision of the Engineer-in-Charge as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all defects or commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents have been executed by the obligator ..... and ..... by ..... for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of :-

- 1. .... 2. ....

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY..... in the presence of :-

- 1. .... 2. ....

GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF STONE WORK/ TILE WORK.

The agreement made this..... day of ..... (Two Thousand \_\_\_\_\_ only) ..... between .....S/o .....(hereinafter called the GUARANTOR of the one part) and the President of India (hereinafter called the Government of the other part)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated ..... and made between the GUARANTOR OF THE ONE PART AND the Government of the other part whereby the contractor inter alia undertook to render the work in the said contract recited structurally stable workmanship, finishing and use of sound materials.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable and guaranteed against faulty workmanship, improper slope, finishing and materials.

NOW THE GUARANTOR hereby guarantee that work executed by him will be free from any material defects, structural defects, cracks, hollow pockets, improper slope, faulty joints etc. for five years to be reckoned from the date of completion of the work.

The decision of the Engineer-in-charge with regard to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-charge as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects, commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents have been executed by the obligator ..... and ..... by ..... for and on behalf of the President of India on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of :-

- 1. .... 2. ....

SIGNED FOR AND BEHALF OF THE PRESIDENT OF INDIA BY ..... in the presence of :-

- 1. .... 2. ....

## **FORM "B"** **BANKER'S CERTIFICATE FROM A COMMERCIAL BANK**

(OM No. DG/SOP 2022/07 dated 09.11.2022)

This is to certify that to the best of our knowledge and information that M/s./Sh.....  
..... having marginally noted address, .....as a Customer of our  
bank are/ is respectable and can be treated as good for any engagement upto a limit of Rs.....  
(Rupees.....)

This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

(Signature) For the Bank

**NOTE**

1. Banker's Certificates should be on letter head of the Bank, addressed to tendering authority.
2. In case of Partnership firm, certificate should include names of all partners as recorded with the Bank.

## **FORM "B-1"** **FORM FOR CERTIFICATE OF NET WORTH FROM CHARTERED ACCOUNTANT**

"It is to certify that as per the audited balance sheet and profit & loss account during the financial year ..... , the Net Worth of M/s ..... (Name & Registered Address of individual/firm/ company), as on ..... (the relevant date) is Rs..... after considering all liabilities. It is further certified that the Net Worth of the company has not eroded by more than 30 % in the last three years ending on (the relevant date)."

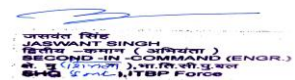
Unique Document Identification Number (UDIN) .....

Signature of Chartered Accountant .....

Name of Chartered Accountant .....

Membership No. of ICAI .....

Date and Seal .....



**FORM-‘C’****Detail of eligible similar nature of works completed during last seven years ending previous day of last day of submission of tenders**

S. No.	Name of work/ Project and location	Owner of sponsoring organization	Cost of work in crore of rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation arbitration cases pending /in progress with details*	Name and address. E mail/ telephone number of officer to reference may be made	Whether the work was done on back to back basis Yes/ No
1	2	3.	4	5	6	7	8	9	10

\* Indicate gross amount claimed and amount awarded by the Arbitration Tribunal.

Signature of Bidder (S)

Signature of Tenderer with Stamp

  
**JASWANT SINGH**  
 SECOND IN COMMAND (ENGR.)  
 11th BATTALION, THE RAJPUTANA  
 ENGINEERS, THE RAJPUTANA  
 FORCE

Signature of NIT issuing authority

## LIST OF APPROVED / PREFERRED MAKES FOR THE WORKS

Name of work:- **Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

Note:- As per higher head quarter and PPP-MII clause and no preferred make to be given for tenders of Government procurement . However all material to be consumed will be fulfilled the all requirements of ISI Code concerned for same material and mark of ISI / BIS marks with CML NO and test report for same to be submit otherwise list will be approved by Engineer- In –Charge and contractor mutually before execution of work to prevent any dispute in future with all material of ISI/BIS Marks with CML No etc .

Notes- (i) Addition/deletion of items may be done by NIT approving authority.

\* (ii) Batch test certificate of Paints, primer, Cement etc (perishable material) shall be supplied along with each lot.

(iii) All material should be used of 1<sup>st</sup> Class / Premium quality only.

Note:- No material in work to be used without prior approval of Engineer in charge.

Signature of Tenderer with Stamp



JASWANT SINGH  
SECOND IN COMMAND (ENGR.)  
19th BN ITB Force

Signature of NIT issuing authority

**GOVERNMENT OF INDIA  
INDO TIBETAN BORDER POLICE DEPARTMENT**

Name of work: **Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

**PART- D**

**GENERAL INDEX**

Sl. No.	Content	Page No.
	PART-C (Schedule of Quantities)	60-94
1.	Schedule of Quantities	61-94
2.	Drawings for only ref	Will be provided by 19 <sup>th</sup> Bn during execution of work



JASWANT SINGH  
SECOND IN COMMAND (ENGR.)  
SHQ (SML) ITBP Force

Sector Engineer  
SHQ (SML) ITBP  
Taradevi Shimla (HP)



JASWANT SINGH  
SECOND IN COMMAND (ENGR.)  
SHQ (SML) ITBP Force

## SCHEDULE OF QUANTITY

Name of Work:- **Renovation / Upgradation of Jawans Kitchen / Dining hall Including Providing Modular Kitchen system at SUMDO, Sugar Point and Lepcha BOP of 19th BN ITB Police , Sarahan Distt Shimla (H.P.).**

S. No.	Particulars of Item	Qty.	Unit	Rate In Figure	Amount
1	<b>Items Mentioned at S.No 01 to 80 for SUMDO BOP :-</b> Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete : 1:1½:3 (1 Cement: 1½ coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	3.11	cum	26805.61	<b>83365.45</b>
2	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	0.35	cum	17240.07	<b>6034.02</b>
3	Centering and shuttering including strutting, propping etc. and removal of form for : Shelves (Cast in situ)	4.97	sqm	1389.40	<b>6905.32</b>
4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. : Thermo-Mechanically Treated bars of grade Fe-500D or more.	52.50	kg	161.61	<b>8484.53</b>
5	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels. Granite stone slab of colour black, Cherry/Ruby red : Area of slab over 0.50	10.54	sqm	7696.33	<b>81119.32</b>

	sqm				
6	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	22.94	metre	851.93	<b>19543.27</b>
7	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	101.84	sqm	1899.93	<b>193488.87</b>
8	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately). 18 mm thick	49.60	sqm	1866.65	<b>92585.84</b>
9	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with : Decorative veneer facings of approved manufacture	51.49	sqm	2916.30	<b>150160.29</b>
10	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Sal wood	0.092	cum	174596.35	<b>16062.86</b>
11	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	1.79	sqm	5205.29	<b>9317.47</b>
12	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be	1.79	sqm	692.80	<b>1240.11</b>

	measured).				
13	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws : 30 mm thick shutters With ISI marked stainless steel butt hinges of required size Second class teak wood	17.63	sqm	6483.37	<b>114301.81</b>
14	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position with necessary stainless steel screws etc.Sal wood.	1.032	cum	156966.09	<b>161989.00</b>
15	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete : 25 mm dia	25.20	metre	787.49	<b>19844.75</b>
16	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc.	268.17	kg	357.14	<b>95774.23</b>
17	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete : 2nd class teak wood 50x12 mm	412.49	metre	331.30	<b>136657.94</b>
18	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete. : Triple strip vertical type	8.00	Nos	78.66	<b>629.28</b>
19	Providing and fixing 19mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes, shelves, racks, almirah, cupboard and drawer etc. including necessary nails, screws etc. complete as per direction of Engineer-in-charge.	8.22	sqm	3885.62	<b>31939.80</b>
20	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge.: 200 mm	8.00	Nos	279.68	<b>2237.44</b>
21	Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in	12.00	Nos	407.58	<b>4890.96</b>



	With Type SE - Self Extinguishing type 50 mm thick.				
28	12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)	15.00	sqm	535.46	<b>8031.90</b>
29	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	48.00	sqm	658.18	<b>31592.64</b>
30	Finishing walls with textured exterior paint of required shade :- Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	100.02	sqm	253.53	<b>25358.07</b>
31	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	136.27	sqm	339.02	<b>46198.26</b>
32	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.)	50.00	sqm	37.68	<b>1884.00</b>
33	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Old work (one or more coats)	120.78	sqm	139.80	<b>16885.04</b>
34	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work	51.49	sqm	154.03	<b>7931.00</b>
35	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.: With cement mortar 1:4 (1cement: 4 coarse sand)	18.00	sqm	839.87	<b>15117.66</b>
36	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	2.00	each	431.69	<b>863.38</b>
37	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	51.49	sqm	5.17	<b>266.20</b>



	rigid pipe 40 mm dia				
48	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	2.00	each	2409.39	<b>4818.78</b>
49	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	2.00	each	1623.55	<b>3247.10</b>
50	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.: Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	2.00	each	172.77	<b>345.54</b>
51	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.: Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	1.00	each	183.41	<b>183.41</b>
52	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.: 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	2.00	each	1062.31	<b>2124.62</b>
53	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall : 15 mm dia nominal bore	32.00	metre	549.03	<b>17568.96</b>
54	Providing and fixing uplasticised PVC connection pipe with brass unions : 45 cm length 15 mm nominal bore	2.00	each	146.47	<b>292.94</b>
55	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size ) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard	2.00	each	16276.44	<b>32552.88</b>

	design : With common burnt clay F.P.S.(non modular) bricks of class designation 7.5				
56	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 15 mm nominal bore	4.00	each	477.02	<b>1908.08</b>
57	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Per litre	16.48	<b>16480.00</b>
58	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.: 15 mm nominal bore	2.00	each	1197.17	<b>2394.34</b>
59	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931: 15mm nominal bore	6.00	each	860.54	<b>5163.24</b>
60	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group B	24.00	point	1848.20	<b>44356.80</b>
61	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	142.00	metre	532.15	<b>75565.30</b>
62	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required : 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	60.00	metre	438.15	<b>26289.00</b>
63	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. (For light plugs to be used in	9.00	each	570.39	<b>5133.51</b>

	non residential buildings).				
64	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required.	8.00	each	713.79	<b>5710.32</b>
65	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	22.00	each	138.62	<b>3049.64</b>
66	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. : Upto 450 mm sweep	2.00	each	716.98	<b>1433.96</b>
67	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) : 4 way (4 + 12), Double door	1.00	each	6518.07	<b>6518.07</b>
68	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.: Single Pole	11.00	each	407.87	<b>4486.57</b>
69	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.: Double Pole	2.00	each	1045.18	<b>2090.36</b>
70	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.: 100 Amp	1.00	each	1954.94	<b>1954.94</b>
71	Supply and installation of Kitchen Chimney hood size (3.00mtrx1.2mtr) with 05 nos SS baffle type grease filter of approved brand as per directed by Engineer-in-charge.Items Industrial Kitchen Chimney, Materials of Chimney Stainless Steel 304, with centrifugal exhaust blower (6000 CFM) Materials of Blower Body Stainless Steel 304, Materials of Blower Blade Stainless	1.00	each	205889.00	<b>205889.00</b>

	Steel 304, Materials of Exhaust pipe GI duct 24 Gauge with flange & gasket, Shape Rectangular, Filter Type Baffle Filter, Control panel Type Push Button, Mount Type Wall Mounted/MS angle frame & hanging supports, Exhaust/Flexible pipe (3-6 meter) Yes, Oil Pad Provided Yes, Chimney Air Suction Capacity (cubic meters per hour) 10000, Exhaust electric motor (3 HP), Chimney Power Cord Wire Length { Meter }20, Blower Motor Power 2000, Chimney Height ( In CM )150 ,Chimney Length ( In CM ) 300, Chimney Width ( In CM )150, Suction Area Length ( In CM )290, Suction Area width ( In CM )140, Exhaust Area Length ( In CM )500, Exhaust Area Width ( In CM )500, Flexible Pipe Diameter ( In MM )150, Oil Collector Pad Length ( In CM )285, Oil Collector Pad Width ( In CM )135,Oil Collector Pad Thickness ( In CM )10				
72	Supplying & laying of following size of XLPE insulated, armoured, power cable of 1.1 KV grade, duly ISI marked, aluminum conductor, conforming to IS:7098 (Part-1) on following manner : On existing cable tray or wall surface 3.5x35 sqmm	80.00	metre	1125.50	<b>90040.00</b>
73	Providing and fixing unplasticised Rigid PVC SWR sanitary pipes in soil, waste and vent pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 110 mm diameter.	20.00	metre	997.10	<b>19942.00</b>
74	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.50 : 110 mm Bend with door.	2.00	each	562.85	<b>1125.70</b>
75	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.50 : 110 mm Bend.	3.00	each	484.60	<b>1453.80</b>
76	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 110 mm Single Tee	1.00	each	1569.40	<b>1569.40</b>

	with door.				
77	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 110x110 mm SWR ring fit Nahani Trap with Jali.	3.00	each	535.20	<b>1605.60</b>
78	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 110mm x 110mm SWR Gully Trap without Jali.	1.00	each	1773.65	<b>1773.65</b>
79	Supply, Installation, Testing and Commissioning of 25 liter geysers with PVC flexible connection pipe for inlet and outlet , geysers, fastners and 20 amp 3 pin plug Top complete etc. as required.	1.00	Nos	29634.75	<b>29634.75</b>
80	Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range - 15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80 , Flicker free (flicker should be below 5 %), life time (LED,Driver & electrical circuitry), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends,CCT 3000°K / 4000°K / 5700°K /6000°K /6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. OEM must have its own in house NABL lab setup for all testing facilities for LED fixtures. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-	22.00	Nos	706.00	<b>15532.00</b>

	in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). CRCA Sheet Body (Thickness $\geq 0.50$ mm): 18- 22 watt				
81	<b>Items Mentioned at S.No 81 to 161 for SUGAR POINT BOP :-</b> Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete : 1:1½:3 (1 Cement: 1½ coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	4.48	cum	26805.61	<b>120089.13</b>
82	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	0.89	cum	17240.07	<b>15343.66</b>
83	Centering and shuttering including strutting, propping etc. and removal of form for : Shelves (Cast in situ)	11.77	sqm	1389.40	<b>16353.24</b>
84	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. : Thermo-Mechanically Treated bars of grade Fe-500D or more.	133.50	kg	161.61	<b>21574.94</b>
85	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels. Granite stone slab of colour black, Cherry/Ruby red : Area of slab over 0.50 sqm	20.84	sqm	7696.33	<b>160391.52</b>
86	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive,	37.48	metre	851.93	<b>31930.34</b>

	including cleaning etc. complete.				
87	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	96.76	sqm	1899.93	<b>183837.23</b>
88	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately). 18 mm thick	55.80	sqm	1866.65	<b>104159.07</b>
89	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with : Decorative veneer facings of approved manufacture	27.60	sqm	2916.30	<b>80489.88</b>
90	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Sal wood	0.088	cum	174596.35	<b>15364.48</b>
91	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes (weight not less than 10 kg per sqm) fixing with ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. Second class teak wood 30 mm thick.	15.12	sqm	6777.96	<b>102482.76</b>
92	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	5.67	sqm	5205.29	<b>29513.99</b>





108	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-charge: With Type SE - Self Extinguishing type 50 mm thick.	83.40	sqm	529.02	<b>44120.27</b>
109	12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)	37.82	sqm	535.46	<b>20251.10</b>
110	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	54.00	sqm	658.18	<b>35541.72</b>
111	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour : New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	25.22	sqm	278.19	<b>7015.95</b>
112	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	25.22	sqm	233.83	<b>5897.19</b>
113	Finishing walls with textured exterior paint of required shade :- Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	90.62	sqm	253.53	<b>22974.89</b>
114	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	109.38	sqm	339.02	<b>37082.01</b>
115	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.)	127.29	sqm	37.68	<b>4796.29</b>
116	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Old work (one or more coats)	40.00	sqm	139.80	<b>5592.00</b>
117	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work	27.60	sqm	154.03	<b>4251.23</b>
118	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls	9.00	sqm	839.87	<b>7558.83</b>

Signature of Tenderer with Stamp

76



JASWANT SINGH  
 TECHNICAL SUPERVISOR  
 SECOND IN COMMAND (ENGR.)  
 NIT, RAIPUR  
 Jharkhand State Road Transport Corporation

Signature of NIT issuing authority









	of Chimney Stainless Steel 304, with centrifugal exhaust blower (6000 CFM) Materials of Blower Body Stainless Steel 304, Materials of Blower Blade Stainless Steel 304, Materials of Exhaust pipe GI duct 24 Gauge with flange & gasket, Shape Rectangular, Filter Type Baffle Filter, Control panel Type Push Button, Mount Type Wall Mounted/MS angle frame & hanging supports, Exhaust/Flexible pipe (3-6 meter) Yes, Oil Pad Provided Yes, Chimney Air Suction Capacity (cubic meters per hour) 10000, Exhaust electric motor (3 HP), Chimney Power Cord Wire Length { Meter }20, Blower Motor Power 2000, Chimney Height ( In CM )150 ,Chimney Length ( In CM ) 300, Chimney Width ( In CM )150, Suction Area Length ( In CM )290, Suction Area width ( In CM )140, Exhaust Area Length ( In CM )500, Exhaust Area Width ( In CM )500, Flexible Pipe Diameter ( In MM )150, Oil Collector Pad Length ( In CM )285, Oil Collector Pad Width ( In CM )135,Oil Collector Pad Thickness ( In CM )10				
153	Supplying & laying of following size of XLPE insulated, armoured, power cable of 1.1 KV grade, duly ISI marked, aluminum conductor, conforming to IS:7098 (Part-1) on following manner : On existing cable tray or wall surface 3.5x35 sqmm	30.00	metre	1168.25	<b>35047.50</b>
154	Providing and fixing unplasticised Rigid PVC SWR sanitary pipes in soil, waste and vent pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 110 mm diameter.	22.00	metre	1034.30	<b>22754.60</b>
155	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.50 : 110 mm Bend with door.	3.00	each	562.85	<b>1688.55</b>
156	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.50 : 110 mm Bend.	3.00	each	484.60	<b>1453.80</b>
157	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including	1.00	each	1569.40	<b>1569.40</b>











	cement				
189	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-charge: With Type SE - Self Extinguishing type 50 mm thick.	69.63	sqm	529.02	<b>36835.66</b>
190	12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)	13.16	sqm	535.46	<b>7046.65</b>
191	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	10.80	sqm	658.18	<b>7108.34</b>
192	Finishing walls with textured exterior paint of required shade :- Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	113.63	sqm	253.53	<b>28808.61</b>
193	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	107.36	sqm	339.02	<b>36397.19</b>
194	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.)	56.82	sqm	37.68	<b>2140.98</b>
195	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Old work (one or more coats)	95.00	sqm	139.80	<b>13281.00</b>
196	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work	44.18	sqm	154.03	<b>6805.05</b>
197	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.: With cement mortar 1:4 (1cement: 4 coarse sand)	8.10	sqm	839.87	<b>6802.95</b>
198	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	2.00	each	431.69	<b>863.38</b>





	size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design : With common burnt clay F.P.S.(non modular) bricks of class designation 7.5				
218	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 15 mm nominal bore	4.00	Nos	477.02	<b>1908.08</b>
219	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr	16.48	<b>16480.00</b>
220	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.: 15 mm nominal bore	2.00	Nos	1197.17	<b>2394.34</b>
221	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931: 15mm nominal bore	6.00	Nos	860.54	<b>5163.24</b>
222	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group B	24.00	point	1848.20	<b>44356.80</b>
223	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	163.00	metre	532.15	<b>86740.45</b>
224	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required : 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	85.00	metre	438.15	<b>37242.75</b>
225	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 amps socket	9.00	Nos	570.39	<b>5133.51</b>



	Stainless Steel 304, Materials of Blower Blade Stainless Steel 304, Materials of Exhaust pipe GI duct 24 Gauge with flange & gasket, Shape Rectangular, Filter Type Baffle Filter, Control panel Type Push Button, Mount Type Wall Mounted/MS angle frame & hanging supports, Exhaust/Flexible pipe (3-6 meter) Yes, Oil Pad Provided Yes, Chimney Air Suction Capacity (cubic meters per hour) 10000, Exhaust electric motor (3 HP), Chimney Power Cord Wire Length { Meter }20, Blower Motor Power 2000, Chimney Height ( In CM )150 ,Chimney Length ( In CM ) 300, Chimney Width ( In CM )150, Suction Area Length ( In CM )290, Suction Area width ( In CM )140, Exhaust Area Length ( In CM )500, Exhaust Area Width ( In CM )500, Flexible Pipe Diameter ( In MM )150, Oil Collector Pad Length ( In CM )285, Oil Collector Pad Width ( In CM )135,Oil Collector Pad Thickness ( In CM )10				
234	Supplying & laying of following size of XLPE insulated, armoured, power cable of 1.1 KV grade, duly ISI marked, aluminum conductor, conforming to IS:7098 (Part-1) on following manner : On existing cable tray or wall surface 3.5x35 sqmm	100.00	metre	1192.20	<b>119220.00</b>
235	Providing and fixing unplasticised Rigid PVC SWR sanitary pipes in soil, waste and vent pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 110 mm diameter.	25.00	metre	1055.05	<b>26376.25</b>
236	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.50 : 110 mm Bend with door.	3.00	each	562.85	<b>1688.55</b>
237	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.50 : 110 mm Bend.	2.00	each	484.60	<b>969.20</b>
238	Providing and fixing unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 110 mm Single Tee	1.00	each	1569.40	<b>1569.40</b>



	in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). CRCA Sheet Body (Thickness ≥ 0.50 mm): 18- 22 watt				
Total amount in Rs Say Rs					<b>7764796.54</b> <b>77,64,797.00</b>

Signature of Tenderer with Stamp

  
 JASWANT SINGH  
 SECOND IN COMMAND (ENGR.)  
 11th BATTALION, THE ITB FORCE

Signature of NIT issuing authority